



# Crucial Evidence. Always.™

Go beyond Full High Definition with the latest IP surveillance range from VIP Vision, featuring up to 5.0 megapixel recording for the best in image quality and detail.



Celebrating 38 Years of Supplying the Electronic Security Industry

- IP & ANALOGUE SURVEILLANCE
- HOME & BUILDING SECURITY
- CAR ALARMS & IMMOBILISERS
- POWER SUPPLIES & CABLES
- BUSINESS PHONE SYSTEMS
- ACCESS CONTROL SYSTEMS
- ENSA LED LIGHTING
- GPS TRACKING SYSTEMS
- INTERCOM SYSTEMS

# Company Profile

RhinoCo Technology has been an integral part of the electronic security industry since 1978. Our company is proudly Australian-owned and still growing after 37 years in business.

We have become best known for our world renowned Rhino™ brand of vehicle security systems, our ENSA™ brand of LED lighting solutions, our Watchguard™ brand of wireless security and surveillance systems, our Securview™ range of professional video surveillance equipment, our VIP Vision™ range of IP Surveillance solutions and our EasyPBX™ business phone systems.

Since our beginning, we have been designing our own range of electronic security products, with dedicated teams of hardware and software engineers that focus on key product areas. More recently, this has continued with the latest ENSA range of Australian assembled and tested LED lighting products.

Our aim is to be more than your electronic security wholesaler and distributor. We strive to be an engineering & design house that provides tailored electronic security solutions to your specific needs. Whatever our client requirements, we strive to provide the winning solution.



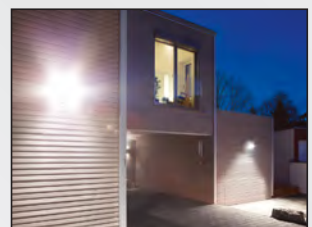
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# The valued proposition

Our people, our products:

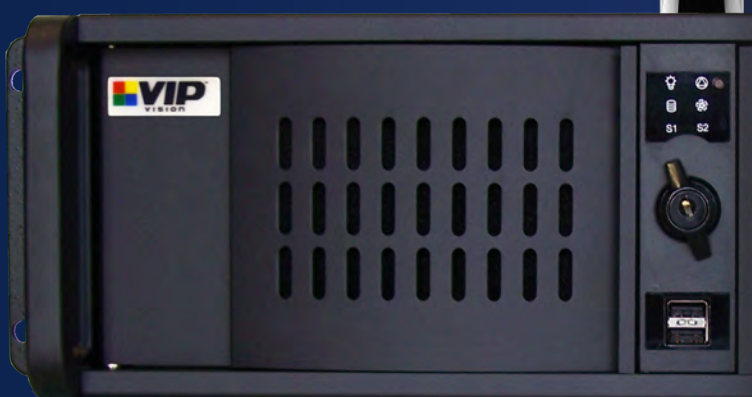
Dedicated to winning you more business



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# CCTV SURVEILLANCE



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## 7 Great Reasons to Choose VIP Vision IP CCTV Surveillance

VIP Vision™ is the premier IP surveillance solution for enterprise and commercial applications. We believe that for CCTV to truly grant peace of mind, it must function seamlessly with your existing business operations. The VIP Vision range delivers powerful, scalable IP CCTV systems, with an emphasis on functionality, ease of use and ease of installation across the range. The VIP Vision range offers professional, high definition video surveillance solutions for small projects through to large commercial, public sector and government level applications.

Rest assured knowing you have usable video evidence when it matters most with VIP Vision IP surveillance.



### 1. One easy to use interface. Up to 256 channels.

VIP Vision delivers complication-free surveillance solutions with unparalleled ease of use across the entire IP CCTV range. With a single, user-friendly graphical user interface used for each network video recorder, configuring a 256 channel system is no different to a 4 channel system.



### 2. Diverse selection of IP surveillance cameras.

The VIP Vision IP camera range is built to fit a wide scope of applications. Ranging from 1.3 megapixels to 5.0 megapixels resolution, VIP Vision cameras come in a wide variety of compact domes and bullets; vandal resistant dome cameras; varifocal and motorised lens cameras; day/night and infrared cameras; and PTZ dome cameras. They are supported by a large array of camera accessories, brackets and lenses.



### 3. Immediate HD surveillance - IP CCTV kits.

For instant deployment of high definition IP surveillance, you need look no further than VIP Vision IP CCTV kits. VIP Vision IP surveillance kits feature all the benefits of the standalone NVRs with notable inclusions such as: 1.3 megapixel bullet and dome IP cameras, pre-installed surveillance hard drives and all required cabling bundled in a retail ready package. VIP Vision IP CCTV kits are available in 4, 8 and 16 channel models.



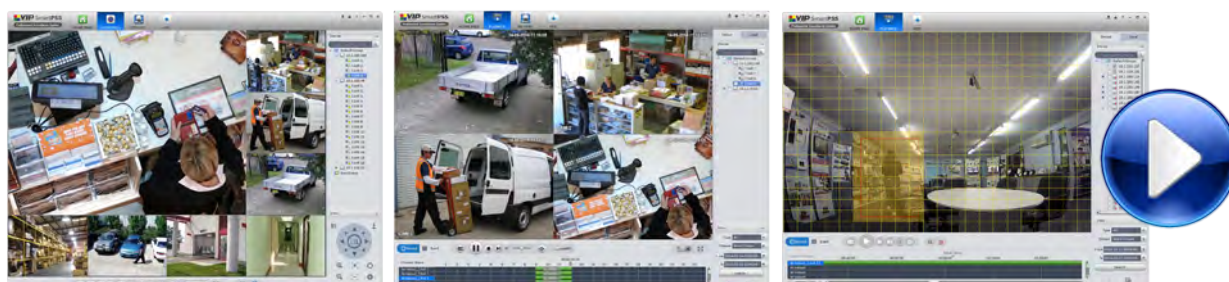
#### 4. Goes beyond Full HD - record up to 5.0 megapixel.

The truth is in the detail. VIP Vision IP surveillance solutions offer up to 5.0 megapixels (2560 x 1920) of image resolution. This is almost twelve times greater than the best traditional analogue CCTV cameras can offer. Compare the above pictures: the composition on the left shows comparative sizes between 3.0 megapixels, 1.3 megapixels and D1 resolution. The composition on the right shows exported footage of the number plate, 3.0MP, 1.3MP to D1 (left to right).



#### 5. Multiple Storage & Backup Options

Don't miss a moment with VIP Vision IP surveillance solutions. The standard 4 channel NVR from VIP Vision offers two internal SATA ports for up to 8TB capacity, which would provide up to 3 weeks of footage storage (3.0MP at 10fps). Larger systems scale to offer up to 64TB storage capacity. Export and backup of footage can be performed by USB device, over the network or via an internal DVD-RW burner, depending on the NVR model.



#### 6. Intelligent record & search functions

You don't need to pay for licences to get intelligent record and search functions from your VIP Vision NVR. Extend the recording time of your HDDs by customising each camera to record by alarm or motion detection. Finding the footage you need has never been easier with smart search. Simply highlight an area of interest and press smart search to view all motion-detected footage in your highlighted area (available for standalone Linux NVRs & VIP Vision SmartPSS).



#### 7. Comprehensive Remote View Capabilities

For complete peace of mind, VIP Vision enables you to take your surveillance system with you where ever you go. Each network video recorder features comprehensive remote view capabilities, compatible with iOS (iPhone & iPad), Google Android and Windows Phone devices. You can also configure remote view via QR code - simply scan the QR code on your VIP Vision NVR with the free DMSS app to remote view your CCTV system (only available for iOS & Android).



More value per pixel: Record 1080p full high definition video & beyond

The VIP Vision stand alone NVR range provides immediate and customisable high definition IP surveillance solutions, ready for jobs of all sizes. 720p, 1080p and greater high definition configurations can be achieved with the VIP Vision range of IP cameras, delivering clearer image quality when you need it most. Each NVR also features comprehensive remote viewing capabilities, with compatibility for PC/network, iOS devices, Android devices and Windows Phone devices. You can now configure remote view via QR code - simply scan the QR code on your NVR with the free DMSS app to remote view your CCTV system.



Up to 200Mbps  
INCOMING BANDWIDTH

4 PORT  
BUILT IN PoE SWITCH

REMOTE VIEW VIA  
QR CODE

### VIP Vision 4 Channel IP Surveillance System

Part No: NVR4PRO2

- Max. record streams: 4 x 5.0MP (2560 x 1920 at 8Mbps) and below including: 3.0MP (2048 x 1536), 1080p (1920 x 1080), 1.3MP (1280 x 960)
- HDMI and VGA simultaneous video output
- Inputs: 2x SATA up to 8TB / 2x USB / 1x RJ45 (1000M)



Up to 200Mbps  
INCOMING BANDWIDTH

8 PORT  
BUILT IN PoE SWITCH

REMOTE VIEW VIA  
QR CODE

### VIP Vision 8 Channel IP Surveillance System

Part No: NVR8PRO3

- Max. record streams: 8 x 5.0MP (2560 x 1920 at 8Mbps) and below including: 3.0MP (2048 x 1536), 1080p (1920 x 1080), 1.3MP (1280 x 960)
  - HDMI and VGA simultaneous video output
  - Inputs: 2x SATA up to 8TB / 2x USB / 1x RJ45 (1000M)
- Non-PoE version available. Model: NVR8PRO2NP



Up to 200Mbps  
INCOMING BANDWIDTH

16 PORT  
BUILT IN PoE SWITCH

REMOTE VIEW VIA  
QR CODE

### VIP Vision 16 Channel IP Surveillance System

Part No: NVR16PRO4

- Max. record streams: 16 x 5.0MP (2560 x 1920 at 8Mbps) and below including: 3.0MP (2048 x 1536), 1080p (1920 x 1080), 1.3MP (1280 x 960)
  - HDMI, VGA and TV (BNC) simultaneous video output
  - Inputs: 4x SATA up to 16TB / 3x USB / 1x RJ45 (1000M)
- Non-PoE version available. Model: NVR16PRO3NP



Up to 200Mbps  
INCOMING BANDWIDTH

16 PORT  
BUILT IN PoE SWITCH

REMOTE VIEW VIA  
QR CODE

### VIP Vision 32 Channel IP Surveillance System

Part No: NVR32PRO316P

- Max. record streams: 16 x 3.0MP (2048 x 1536), 32 x 1080p (1920 x 1080) and below including: 1.3MP (1280 x 960), 720p (1280 x 720)
  - HDMI, VGA and TV (BNC) simultaneous video output
  - Inputs: 8x SATA up to 32TB / 3x USB / 1x RJ45 (1000M)
- Non-PoE version available. Model: NVR32PRO



36CH@1080P  
FULL HD RECORDING

5.0 MP  
MAX. RESOLUTION

### VIP Vision 64 Channel IP Surveillance System

Part No: NVR64PRO

- Max. 36 Channels at full HD 1080p (1920 x 1080)
- Record 64 Channels in 720P HD (1280 x 720)
- Record 64 Channels in D1 (720 x 576) at 25fps
- HDMI and VGA simultaneous video output
- Inputs: 16x SATA up to 64TB / 4x USB / 4x RJ45 (1000M)



96CH@1080P  
FULL HD RECORDING

5.0 MP  
MAX. RESOLUTION

### VIP Vision 128 Channel IP Surveillance System

Part No: NVR128PRO

- Max. 96 Channels at full HD 1080p (1920 x 1080)
  - Record 128 Channels in 720P HD (1280 x 720)
  - Record 128 Channels in D1 (720 x 576) at 25fps
  - HDMI and VGA simultaneous video output
  - Inputs: 16x SATA up to 64TB / 4x USB / 4x RJ45 (1000M)
- Also available in 256 channel. Model: NVR256PRO



## HD surveillance simplified: VIP Vision IP CCTV kits

- Available in 4, 8 & 16 channel kits
- 1.3MP High Definition recording
- Simple plug & play installation
- Pre-installed hard disk drives
- Built-in Power over Ethernet (PoE) switch
- All CAT5 & HDMI cables included



### 1.3 Megapixel IP CCTV Surveillance Kits



REMOTE VIEW VIA  
QR CODE

WATCH ON YOUR  
SMARTPHONE

RECORD 25FPS AT 1.3MP  
**1280 x 960**

BUILT IN PoE SWITCHES  
**Plug & Play**

Part No: NVR4PROPACK2 / NVR8PROPACK3 / NVR16PROPACK4

The NVRPROPACK range comes in three different kits: 4 channel, 8 channel and 16 channel. The stand alone kits are designed for quick installation and ease of operation. 1.3 megapixel (1280 x 960) weatherproof, infrared cameras (dome or bullet) come standard with each kit. Each kit features motion detection recording, scheduling, alarm system integration and remote viewing for iOS (iPad, iPhone), Android devices and Windows Phone devices. Easily configure remote view via QR code - simply scan the QR code on your NVR with the free DMSS app to remote view your CCTV system. Each kit also includes all required components including pre-installed hard drive, Power over Ethernet, CAT5 cables and power supplies.

#### 4 Channel

##### NVR4PROPACK2 Kit Includes:

- 4 Channel H.264 Network Video Recorder
- Record 1.3MP at 25fps Across All Channels
- HDMI and VGA Video Outputs
- Built-in 4 Port Power Over Ethernet
- 1x 1TB Hard Drive, USB Mouse, HDMI Cable
- 4x 1.3MP Weatherproof IR Bullet Cameras (Model: VSIP1MPFBIRV2)
- 2x 10m/1x 20m/1x 30m CAT5 Cables

#### 8 Channel

##### NVR8PROPACK3 Kit Includes:

- 8 Channel H.264 Network Video Recorder
- Record 1.3MP at 25fps Across All Channels
- HDMI and VGA Video Outputs
- Built-in 8 Port Power Over Ethernet
- 1x 2TB Hard Drive, USB Mouse, HDMI Cable
- 4x 1.3MP Weatherproof IR Bullet Cameras (Model: VSIP1MPFBIRV2)
- 4x 1.3MP Vandal Resistant IR Dome Cameras (Model: VSIP1MPVDMINIIRC)
- 4x 10m/2x 20m/2x 30m/2x 1.5m CAT5 Cables

#### 16 Channel

##### NVR16PROPACK4 Kit Includes:

- 16 Channel H.264 Network Video Recorder
- Record 1.3MP at 25fps Across All Channels
- HDMI, VGA & BNC Video Outputs
- Built-in 16 Port Power Over Ethernet
- 1x 2TB Hard Drive, USB Mouse, HDMI Cable
- 8x 1.3MP Weatherproof IR Bullet Cameras (Model: VSIP1MPFBIRV2)
- 8x 1.3MP Vandal Resistant IR Dome Cameras (Model: VSIP1MPVDMINIIRC)
- 8x 10m/4x 20m/4x 30m/3x 1.5m CAT5 Cables

## Go Beyond Full High Definition

Upgrade to 3 Megapixel and Record Beyond Full HD

The NVRPRO and NVRPROPACK ranges can record beyond 1080p Full HD quality by upgrading to 3.0 megapixel (2048 x 1536) IP cameras. RhinoCo also recommends choosing additional storage to effectively operate 3.0 megapixel systems.

See page 29 for full storage options.



\*Due to bit-rate limitations, some NVR and camera combinations may be limited to reduced frame rates than shown in this catalogue. Consult RhinoCo on the best configuration for you. 8 Channel model shown. Monitor optional (LCDAOC24W) not included with NVRPROPACK range.



Integrate your surveillance system with existing corporate networks





# General Surveillance Management Centre

The General Surveillance Management Centre integrates allows remote control and management of 2000 channels of input video. It is ideal for installations covering large commercial or industrial sites with multiple recorder deployments. A central administrator can modify storage use, recording profiles and user accounts from one location.

- Max. Support 500 Inputs  
**2000 CHANNELS**
- SUPPORT 1000**  
Accounts Management
- SUPPORT 1000**  
Online Users
- SUPPORT 700M**  
Transfer Capability
- MAX. 200 CH**  
E-map On Screen



## VIP Vision General Surveillance Management Centre

**Part No: NVR-GSMC**

- Support ONVIF, GB/T28181 standard protocol gateway connection
- Support intelligent device connection such as IVS-B/PC
- Support platform SDK
- Front panel can displays system service status
- Embedded device, 30\*24 stable operation
- High-performance stream media transfer and storage capability
- Support tier and cascade deployment
- Support local storage and IP-SAN storage
- Support GIS map(Google, RasterMap)

**\*HDDs sold separately**

Specifications		
System	Main Processor	Intel Core Processor
	Operating System	Embedded Linux
Display	LCD Screen	Display system information and status. Include: system time, the system hardware information, platform service running state, etc
Data Management	Hard Disk	One system disk and 15 disks local storage (max support 4T HDD)
	Raid mode	Single,Raid0, Raid1, Raid5
Network	Ethernet Port	4 1000Mbps Ethernet port
Auxiliary	USB Interface	4 USB2.0 port
	RS232	1 port
General	Power Supply	100V~240V,47~63Hz, Hot-swap-pable
	Power Consumption	10W~200W(With HDD)
	Dimensions	526mm*485mm*135mm



Combine IP, HD-CVI and Analogue Recording In a Single System



The VIP Vision Tri-brid Video Recorder (TVR) combines analogue, HD-CVI and IP camera recording in a single system. The system allows any combination of 16 camera inputs making it a truly versatile option for any installation. The flexibility in camera inputs makes the system perfect for multi-staged upgrades. Individual analogue cameras can be upgraded to HD-CVI or IP models without having to run parallel machines.

The TVR16 has two LAN ports allowing for a physical separate connection for cameras and auxiliary networks. Each input channel can record at a maximum resolution of 2.0MP (1080p). The eight internal SATA hard drive bays allows for a total of 32TB of storage when paired with 4TB drives. Backup functionality is available via USB, DVD and network connection. The machine is compatible with the VIP Vision remote access software for Windows desktop, Windows Phone, iPhone and Android devices. Like other VIP Vision systems, remote view on the TVR16 can be configured easily and quickly via QR code.

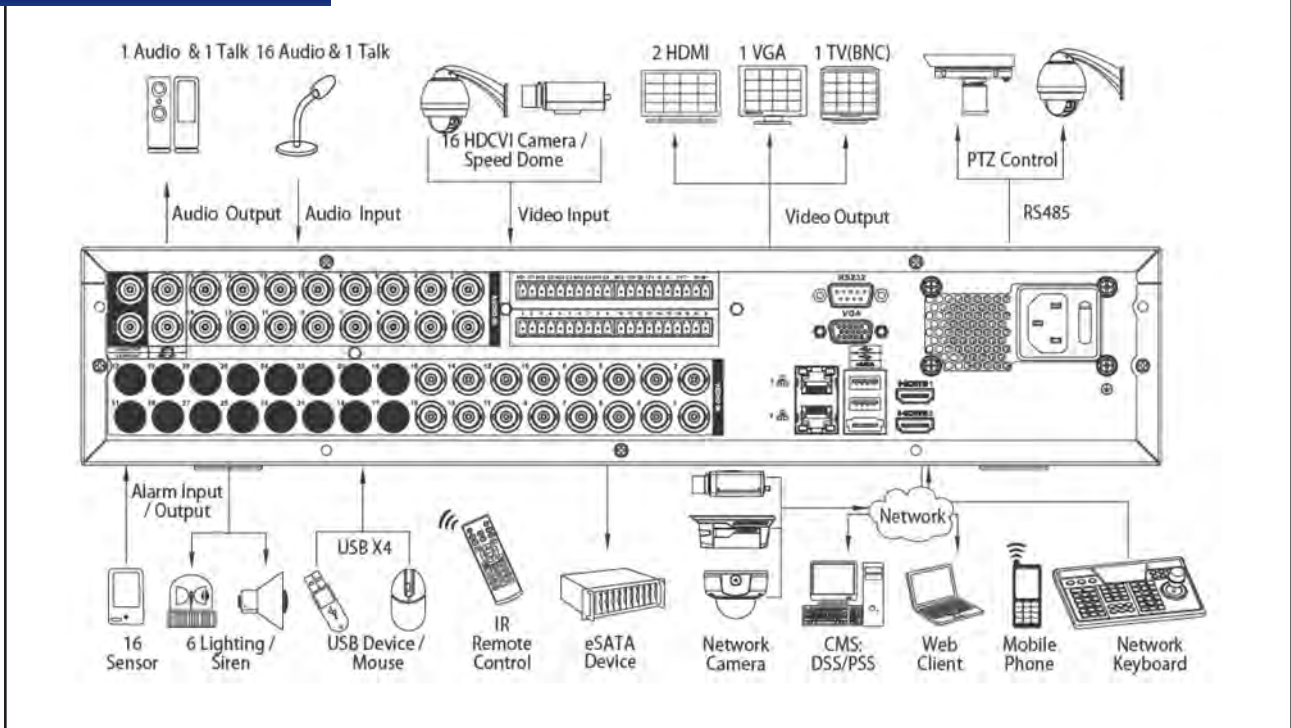


VIP Vision 16 Channel Tribrid Surveillance System

Part No: TVR16

- Max. record streams: 16x 1080p (1920 x 1080) and below including: 1.3MP (1280 x 960), 720p (1280 x 720)
- 16 Channel Synchronous Real-time Playback
- USB / eSATA / Network Backup / Internal Burner (optional)
- Inputs: 8x SATA up to 32TB / 4x USB / 2x RJ45 (1000M)
- Multiple Video Output: HDMI / VGA / BNC TV
- RS485 Compatible for PTZ Control, RS422 for Keyboard
- RS232 Port for PC Communication/Keyboard
- View on Smartphone / Tablet - iOS / Android / Windows Phone
- Input Voltage: 100~240VAC
- Dimensions 440 x 460 x 89mm / 6.5kg (without HDDs)

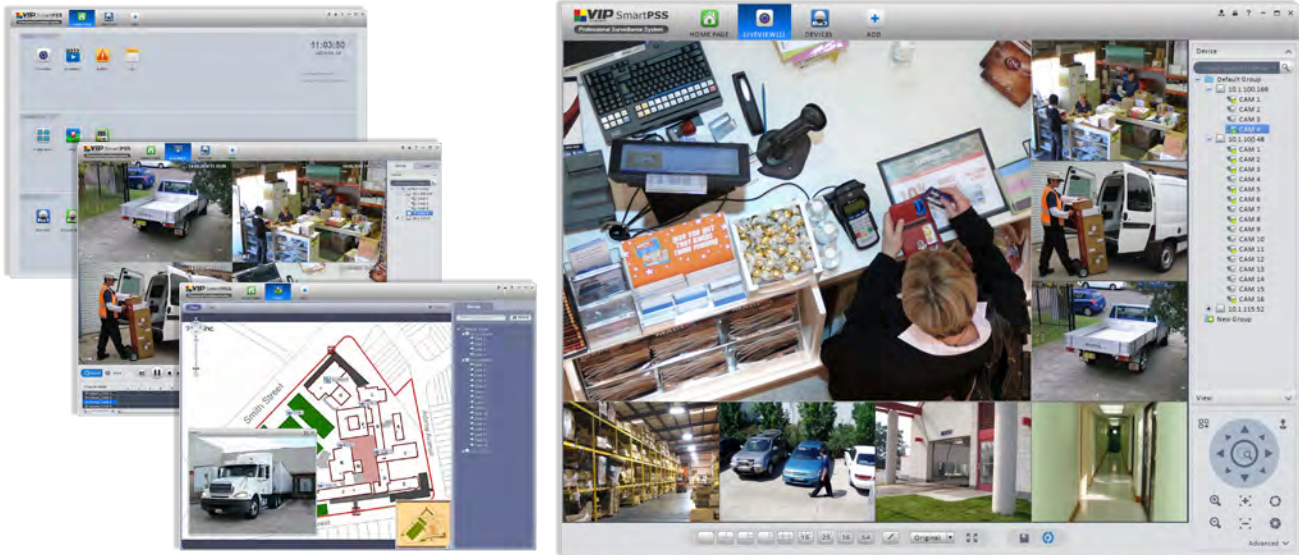
TVR16 Rear Panel & Applications:





# Powerful, Intuitive & Free: VIP Vision SmartPSS CCTV CMS





- Connect to 256 devices or up to 2000 channels
- Create eMaps, Control PTZs, Setup Tours
- User-Friendly with Drag & Drop Controls
- Remote Connect via SmartPSS in Seconds



## VIP Vision Smart PSS Client Software

VIP Vision's Smart PSS (Professional Surveillance System) client for Windows and Macintosh OS X\* operating systems delivers a simple and affordable alternative to network video recorder dependent IP CCTV surveillance. By downloading the light weight VIP Vision Smart PSS client, you can turn your PC or Mac into a professional high definition surveillance system.

Take advantage of the full range of VIP Vision IP surveillance cameras and integrate CCTV into your existing network infrastructure. Simply add as few as one VIP Vision IP camera to your network to get started building your own tailored HD surveillance solution. The Smart PSS client will automatically search for your cameras, as well as existing IP CCTV systems that may already be on your network. See in depth feature set below:

 <h3>Complete Control</h3> <ul style="list-style-type: none"> <li>• Have complete control of your CCTV surveillance on Windows or Mac OS X</li> <li>• Ideal as a management tool, productivity tool for staff, remote view CMS and more.</li> </ul>	 <h3>Powerful Features</h3> <ul style="list-style-type: none"> <li>• Remote connect to your CCTV via Smart PSS serial number - it only takes seconds!</li> <li>• Intelligent playback search functions, eMap support, alarm email notifications and more.</li> </ul>
 <h3>Intuitive Interface</h3> <ul style="list-style-type: none"> <li>• User friendly, fast &amp; fluid tabbed interface</li> <li>• Auto-find &amp; manage 256 devices/2000 channels</li> <li>• Swiftly interact with your CCTV with easy and responsive drag and drop controls</li> </ul>	 <h3>Flexible Functions</h3> <ul style="list-style-type: none"> <li>• Comprehensive user account setup with permission controls and detailed system logs</li> <li>• Group cameras, save layouts, customise camera tours/tasks, easily configure eMaps, etc.</li> </ul>

## Download & try it now

VIP Vision Smart PSS is lightweight download that comes with the Smart PSS client software and PC-NVR application that facilitates the recording/storage of footage up to 16 channels. Due to the unpredictable nature of PC hardware, RhinoCo Technology recommends SmartPSS be used primarily as a client software tool.

[www.rhinoco.com.au/support/downloads](http://www.rhinoco.com.au/support/downloads)



Available for Windows & OS X

\* Software is currently in beta development for OS X systems.





### 5.0 Megapixel 20m Infrared Vandal Resistant IP Dome

Part No: VSIP5MPVDIRM

#### Image

- 1/ 2.5 5.0 Megapixel Aptina CMOS Sensor
- Min. Illumination: 0.01 Lux at F1.6
- Motorised 4 - 9mm Lens at F1.6
- 86.5° (Wide) ~ 28.6° (Tele) Angle of View
- 20m Maximum Infrared Range
- Record 12fps at 5.0MP (2560 x 1920)
- Record 20fps at 3.0MP (2048 x 1536)
- Record 25fps at 2.0MP (1920 x 1080)

#### General

- 24VAC / 12VDC / PoE
- IP66 Rating
- IK10 Vandal Resistant
- MicroSD Card Slot - Up to 64GB
- Ø151mm x 119mm
- 1.25kg



### 3.0 Megapixel 20m Infrared Vandal Resistant IP Dome

Part No: VSIP3MPVDIRV2

#### Image

- 1/3" 3.0 Megapixel Aptina CMOS Sensor
- Min. Illumination: Colour: 0.1 Lux/F1.2  
Black & White: 0.01 Lux/F1.2
- Varifocal 2.7 -12mm Lens at F1.4
- 82° (Wide) ~ 25° (Tele) Angle of View
- 20m Maximum Infrared Range
- Record 20fps at 3.0MP (2048 x 1536)
- Record 25fps at 1080p (1920 x 1080)

#### General

- 24VAC / 12VDC / PoE
- IP66 Rating
- IK10 Vandal Resistant
- MicroSD Card Slot - Up to 64GB
- Ø151mm x 119mm
- 1.25kg



### 3.0 Megapixel 20m Infrared Motorised IP Dome

Part No: VSIP3MPVDIRM

#### Image

- 1/3" 3.0 Megapixel Aptina CMOS Sensor
- Min. Illumination: Colour: 0.1 Lux/F1.2  
Black & White: 0.01 Lux/F1.2
- Motorised 3 - 9mm Lens at F1.2
- 86.5° (Wide) ~ 28.6° (Tele) Angle of View
- 20m Maximum Infrared Range
- Record 20fps at 3.0MP (2048 x 1536)
- Record 25fps at 1080p (1920 x 1080)

#### General

- 24VAC / 12VDC / PoE
- IP66 Rating
- IK10 Vandal Resistant
- MicroSD Card Slot - Up to 64GB
- Ø151mm x 119mm
- 1.25kg



### 3.0 Megapixel 30m Infrared Vandal Resistant IP Mini Dome

Part No: VSIP3MPVDMINIIRC

#### Image

- 1/3" Progressive Scan CMOS Sensor
- Min. Illumination: Colour: 0.1 Lux/F1.2  
Black & White: 0.005 Lux/F1.2
- Fixed 3.6mm Lens at F1.2
- 74° Angle of View
- 30m Maximum Infrared Range
- Record 20fps at 3.0MP (2048 x 1536)
- Record 25fps at 1080p (1920 x 1080)

#### General

- 12VDC / PoE
- IP66 Rating
- IK10 Vandal Resistant
- Ø108mm x 84mm
- 0.40kg

Available in 2.8mm lens (VSIP3MPVDMINIIRC2.8)





**3.0 Megapixel 20m Infrared IP Dome Camera**

**Part No: VSIP3MPDIR**

**Image**

- 1/3" 3.0 Megapixel Aptina CMOS
- Min. Illumination: Colour: 0.01 Lux/F1.2  
Black & White: 0.005 Lux/F1.2
- 3.6mm Fixed Lens at F1.8
- 72.5° Angle of View
- 20m Maximum Infrared Range
- Record 20fps at 3.0MP (2048 x 1536)
- Record 25fps at 1080p (1920 x 1080)

**General**

- 12VDC / PoE
- IP66 Rating
- Ø114mm x 86mm
- 0.29kg



**3.0 Megapixel 20m Infrared Vandal Resistant IP Mini Dome**

**Part No: VSIP3MPVDMINIIR**

**Image**

- 1/3" Progressive Scan CMOS Sensor
- Min. Illumination: Colour: 0.1 Lux/F1.2  
Black & White: 0.01 Lux/F1.2
- Fixed 3.6mm Lens at F1.6
- 70° Angle of View
- 30m Maximum Infrared Range
- Record 20fps at 3.0MP (2048 x 1536)
- Record 25fps at 1080p (1920 x 1080)

**General**

- 12VDC / PoE
- IP66 Rating
- IK10 Vandal Resistant
- Ø110mm x 81mm
- 0.29kg



**3.0 Megapixel Vandal Resistant IP Mini Dome**

**Part No: VSIP3MPVDMINI3.6**

**Image**

- 1/3" Progressive Scan CMOS Sensor
- Min. Illumination: Colour: 0.1 Lux/F1.2
- Fixed 3.6mm Lens at F1.2
- 72° Angle of View
- Record 20fps at 3.0MP (2048 x 1536)
- Record 25fps at 1080p (1920 x 1080)
- 2-axis adjustable camera

**General**

- 12VDC / PoE
- IP66 Rating
- IK10 Vandal Resistant
- MicroSD slot up to 64GB
- Ø110mm x 54mm
- 0.25kg



**1.3 Megapixel 30m Infrared Vandal Resistant IP Mini Dome**

**Part No: VSIP1MPVDMINIIRC**

**Image**

- 1/3" 1.3 Megapixel CMOS
- Min. Illumination: Colour: 0.05 Lux/F1.2  
Black & White: 0.005 Lux/F1.2
- Fixed 3.6mm Lens at F1.8
- 70° Angle of View
- 30m Maximum Infrared Range
- Record 25fps at 1.3MP (1280 x 960)

**General**

- 12VDC / PoE
- IP66 Rating
- IK10 Vandal Resistant
- Ø107mm x 84.1mm
- 0.29kg



### 5.0 Megapixel 30m Infrared IP Bullet Camera

Part No: VSIP5MPFBIRM

#### Image

- 1/2.5" 5.0 Megapixel Aptina CMOS Sensor
- Min. Illumination: Colour: 0.01 Lux/F1.6
- Record 8fps at 5.0MP (2560 x 1920)
- Record 15fps at 3.0MP (2048 x 1536)
- Record 25fps at 1080p (1920 x 1080)

#### General

- 24VAC / 12VDC / PoE
- MicroSD Card Slot - Up to 32GB
- 70 x 150 x 63mm / 0.65kg
- Lens mount C/CS
- **\* Lens not included**



### 5.0 Megapixel 30m Infrared IP Bullet Camera

Part No: VSIP5MPFBIRM

#### Image

- 1/2.5" 5.0 Megapixel CMOS Sensor
- Min. Illumination: Colour: 0.01 Lux/F1.6
- 4-9 mm Motorised at F1.2
- 82.4° (Wide) ~ 36.1° (Tele) Angle of View
- 30m Maximum Infrared Range
- Record 12fps at 5.0MP (2560 x 1920)
- Record 20fps at 3.0MP (2048 x 1536)

#### General

- 24VAC / 12VDC / PoE
- IP66 Rating
- MicroSD Card Slot - Up to 64GB
- Ø104mm x 306.7mm
- 1.25kg



### 3.0 Megapixel 30m Infrared Full Body IP Camera

Part No: VSIP3MPFBIRV2

#### Image

- 1/3" 3.0 Megapixel Aptina CMOS Sensor
- Min. Illumination: Colour: 0.2 Lux/F1.4
- Varifocal Lens 2.7~12mm at F1.6
- 82° (Wide) ~ 25° (Tele) Angle of View
- 30m Maximum Infrared Range
- Record 20fps at 3.0MP (2048 x 1536)
- Record 25fps at 1080p (1920 x 1080)

#### General

- 12VDC / PoE
- IP66 Rating
- MicroSD Card Slot - Up to 64GB
- Ø104mm x 306.7mm
- 1.25kg



### 3.0 Megapixel 30m Infrared IP Mini Bullet

Part No: VSIP3MPFBMINIIR

#### Image

- 1/3" 3.0 Megapixel Aptina CMOS Sensor
- Min. Illumination: Colour: 0.1 Lux/F1.4
- Black & White: 0.005 Lux/F1.4
- Fixed 3.6mm Lens at F1.6
- 70° Angle of View
- 30m Maximum Infrared Range
- Record 18fps at 3.0MP (2048 x 1536)
- Record 25fps at 1080p (1920 x 1080)

#### General

- 12VDC / PoE
- IP66 Rating
- Ø64mm x 160mm
- 0.40kg



### 1.3 Megapixel 30m Infrared IP Mini Bullet

Part No: VSIP1MPFBIRV2

#### Image

- 1/3" 3.0 Megapixel Aptina CMOS Sensor
- Min. Illumination: Colour: 0.01 Lux/F1.2
- Black & White: 0.005 Lux/F1.2
- Fixed 3.6mm Lens at F1.2
- 90° Angle of View
- 30m Maximum Infrared Range
- Record 25fps at 1.3MP (1280 x 960)

#### General

- 12VDC / PoE
- IP66 Rating
- 70 x 66 x 160mm
- 0.50kg





## VIP VISION SPECIALTY IP CAMERAS

**1.3 Megapixel Network 100m Infrared IP PTZ Dome Camera****Part No: VSIP1MPPTZIR****Image**

- 1/3" CMOS Image Sensor & 20x Optical Zoom
- Min. Illumination: Colour: 0.05 Lux at F1.4 / Black & White: 0.005 Lux/F1.4
- 80m Infrared Range (DC12V)  
100m Infrared Range (AC24V)
- Varifocal Lens 4.7mm ~ 94.0mm F1.4~F2.6
- Record 25fps at 1080p (1920 x 1080)
- Angle of View: 54.1° (wide) ~ 3.2° (tele)
- Backlight Compensation: BLC / HLC / WDR (Digital WDR)

**General**

- Ethernet Control RJ-45 (10/100 Base-T)
- 360° Pan / -15°~90° Tilt Range / 180° Auto-flip
- PTZ Modes: 5 Pattern / 8 Tour / Auto Pan and Auto Scan
- Preset Speed: Pan: 400°/s / Tilt: 300°/s
- Supports MicroSD Card Recording Up to 64GB
- 24VAC / 12VDC / PoE Plus (30W)
- IP66 Ingress Protection Rating
- Ø186mm x 309mm
- 15.0kg

**3.0 Megapixel Network WDR 100m Infrared IP PTZ Dome Camera****Part No: VSIP3MPPTZIR****Image**

- 1/3" CMOS Image Sensor & 20x Optical Zoom
- Min. Illumination: Colour: 0.05 Lux/F1.6 / Black & White: 0.005 Lux/F1.6
- 100m Maximum Infrared Range
- Varifocal Lens 4.7mm ~ 94.0mm F1.6~F3.5
- Record 15fps at 3 Megapixels (2048 x 1536)
- Record 25fps at 1080p (1920 x 1080)
- Angle of View: 58.2° (wide) ~ 2.9° (tele)
- Backlight Compensation: BLC / HLC / WDR (100db, 1080p mode)

**General**

- Ethernet Control RJ-45 (10/100 Base-T)
- 360° Pan / -2°~90° Tilt Range / 180° Auto-flip
- PTZ Modes: Up to 255 Preset Modes / 8 Tour / 5 Pattern / Auto Pan / Auto Scan
- Preset Speed: Pan: 240°/s / Tilt: 200°/s
- Supports MicroSD Card Recording Up to 32GB
- 24VAC/3A Power Supply
- IP66 Ingress Protection Rating
- Ø230mm x 382mm
- 7.0kg

**Network PTZ Keyboard****Part No: VSIPPTZKBv2**

- Controls all VIP Vision IP Cameras and Recorders
- RS485, RS422, USB, RS232 & Network Connection
- Three Dimensional Joystick Control of PTZ Functions
- Preset Position, Auto Scan, Auto Pan, Auto Tour & Pattern Control
- On-Screen Menu & User Operation Procedure Tips
- Connect to SmartPSS via USB



## VIP VISION MEGAPIXEL IP CAMERA LENSES

**Manual Megapixel Lenses****Part No: See Below****VSLM6-12MM-MP3**

- 6~12mm Varifocal Manual Iris 3MP Lens, 1/2"

**VSLM-AV4.5-10MP5**

- 4.5~10mm Varifocal Manual Iris 5MP Lens, 1/2" IR Corrected F1.6

**VSLM-AV8-16MP5**

- 8~16mm Varifocal Manual Iris 5MP Lens, 1/2" IR Corrected F1.6

**Automatic Megapixel Lenses****See Below****VSLA3.5-8MP1**

- 3.5~8mm Varifocal Automatic Iris 1.3MP Lens, 1/2"

**VSLA-AV4.5-10MP5**

- 4.5~10mm Varifocal Automatic Iris 5MP Lens, 1/2" IR Corrected F1.6





## Immediate IP Surveillance: Easy-to-install HD CCTV Kits

The Watchguard™ NVENTPACK range consists of compact, high definition surveillance systems, ideal for homes and small businesses. Each kit includes 1.3 megapixel, weatherproof cameras capable of recording 1.3MP (1280 x 960) footage in real-time (25fps). The kits are built for easy installation, with built-in power over Ethernet switches & bundled CAT5/HDMI cabling. Remote view on the NVENTPACKs is also configured quickly & easily via QR code.



### 4 Channel Network Video Recorder Kit



REMOTE VIEW VIA  
QR CODE

BUILT IN PoE SWITCH  
Plug & Play



WATCH ON YOUR  
SMARTPHONE

RECORD 25FPS @ 1.3MP  
1280 x 960

#### Part No: NVR4ENTPACK3

#### NVR4ENTPACK3 Kit Includes:

- 4 Channel H.264 NVR (Model: NVR4ENT3)
- Record 1.3MP at 25fps Across All Channels
- HDMI and VGA Video Outputs
- 4 x 1.3MP Weatherproof IR Bullet Cameras (Model: VSIP1MPFBIRV2)
- Built-in 4 Port Power Over Ethernet
- 1x 1TB Hard Drive, USB Mouse, HDMI Cable
- 2x 10m/1x 20m/1x 30m CAT5 Cables

#### NVR4ENT3 (NVR only):

- Compact 4 Channel H.264 Network Video Recorder
- 80Mbps maximum incoming bandwidth
- Max. record streams: 4 x 5.0MP (2560 x 1920 at 8Mbps) and below including: 3.0MP (2048 x 1536), 1080p (1920 x 1080), 1.3MP (1280 x 960)
- HDMI and VGA simultaneous video output
- Inputs: 1x SATA up to 4TB / 2x USB / 1x RJ45 (1000M)

\*Monitor optional, not included in kit.



### 8 Channel Network Video Recorder Kit



REMOTE VIEW VIA  
QR CODE

BUILT IN PoE SWITCH  
Plug & Play



WATCH ON YOUR  
SMARTPHONE

RECORD 25FPS @ 1.3MP  
1280 x 960

#### Part No: NVR8ENTPACK

#### NVR8ENTPACK Kit Includes:

- 8 Channel H.264 NVR (Model: NVR8ENT)
- Record 1.3MP at 25fps Across All Channels
- HDMI and VGA Video Outputs
- 4 x 1.3MP Weatherproof IR Bullet & IK10 Domes (Model: VSIP1MPFBIRV2, VSIP1MPVDMINIIRC)
- Built-in 8 Port Power Over Ethernet
- 1x 2TB Hard Drive, USB Mouse, HDMI Cable
- 4x 10m/2x 20m/2x 30m CAT5 Cables

#### NVR8ENT (NVR only):

- Compact 8 Channel H.264 Network Video Recorder
- 80Mbps maximum incoming bandwidth
- Max. record streams: 8 x 5.0MP (2560 x 1920 at 8Mbps) and below including: 3.0MP (2048 x 1536), 1080p (1920 x 1080), 1.3MP (1280 x 960)
- HDMI and VGA simultaneous video output
- Inputs: 1x SATA up to 4TB / 2x USB / 1x RJ45 (1000M)

\*Monitor optional, not included in kit.





Your moment of victory:  
HD video over coaxial

The Securview Victory Series® grants you the power to setup new and convert old analogue CCTV systems to high definition with the simplicity of conventional analogue CCTV installations. Each product in the range uses the HDCVI video transmission standard (high definition composite video interface), established by the CCTV industry for the CCTV industry. HDCVI transmission technology delivers 3 signals (video/audio/control) across a single coaxial cable. This results in low latency, long transmission distance high definition video with lossless real-time preview at a lower cost compared to other HD video over coax systems. Experience your moment of victory with Securview Victory Series.

### HDSi

### HDCVI

<b>HD Video Transmission Distance</b>	<b>Up to 100m:</b> Signal distortion over long distances with expensive cable requirements	<b>Up to 500m*:</b> Up to 5 times the transmission distance at 720p; 3 times at 1080p with low signal distortion
<b>Anti-interference</b>	<b>Poor:</b> High frequency interference leads to increased bit error ratio	<b>Good:</b> Adopts low frequency modulation technology to ensure stable video transmission at high image quality
<b>Overall System Cost</b>	<b>High:</b> Greater system cost; higher demand in quality of cable and installation	<b>Low:</b> Lower cost systems; inherits the same installation process of conventional analogue systems

\*Achieved using 75-3 RG-6 coaxial cable and 720p HDCVI cameras



#### Victory Series 720p HDCVI Digital Video Recorders

REMOTE VIEW VIA  
**QR CODE**

WATCH ON YOUR  
**SMARTPHONE**

RECORD 25FPS @ 720p  
**1280 x 720**

Part No: CVR4 / CVR8 / CVR16

Features a maximum recording resolution of 720p (1280 x 720).

#### 4 Channel

##### Victory Series 4 Channel 720p DVR:

- Max. resolution 720p (1280 x 720) at 25fps
- 1 x SATA port for up to 4TB of HDD storage
- 4, 8 & 16 camera 1080p real-time preview
- Simultaneous HDMI & VGA video output
- Backup via network & external USB storage
- Comprehensive remote view on iPad, iPhone, Android devices and Windows Phone

#### 8 Channel

##### Victory Series 8 Channel 720p DVR:

- Max. resolution 720p (1280 x 720) at 25fps
- 1 x SATA port for up to 4TB of HDD storage
- 4, 8 & 16 camera 1080p real-time preview
- Simultaneous HDMI & VGA video output
- Backup via network & external USB storage
- Comprehensive remote view on iPad, iPhone, Android devices and Windows Phone

#### 16 Channel

##### Victory Series 16 Channel 720p DVR:

- Max. resolution 720p (1280 x 720) at 25fps
- 2 x SATA ports for up to 8TB of HDD storage
- 4, 8 & 16 camera 1080p real-time preview
- Simultaneous HDMI, VGA & BNC video output
- Backup via network & external USB storage
- Comprehensive remote view on iPad, iPhone, Android devices and Windows Phone



#### Victory Series 1080p HDCVI Digital Video Recorders

REMOTE VIEW VIA  
**QR CODE**

WATCH ON YOUR  
**SMARTPHONE**

RECORD 25FPS @ 1080p  
**1920 x 1080**

Part No: CVR4F / CVR8F

Features a maximum recording resolution of 1080p (1920 x 1080).

#### 4 Channel

##### Victory Series 4 Channel 1080p DVR:

- Max. resolution 1080p (1920 x 1080) at 25fps
- 1 x SATA port for up to 4TB of HDD storage
- 4, 8 & 16 camera 1080p real-time preview
- Simultaneous HDMI, VGA & BNC video output
- Backup via network & external USB storage
- Comprehensive remote view on iPad, iPhone, Android devices and Windows Phone

#### 8 Channel

##### Victory Series 8 Channel 1080p DVR:

- Max. resolution 1080p (1920 x 1080) at 25fps
- 1 x SATA port for up to 4TB of HDD storage
- 4, 8 & 16 camera 1080p real-time preview
- Simultaneous HDMI, VGA & BNC video output
- Backup via network & external USB storage
- Comprehensive remote view on iPad, iPhone, Android devices and Windows Phone

#### 16 Channel

**For 16 channel Full HD 1080p HD-CVI video over coaxial cable systems, please refer to Model: TVR16 (page 12).**



720p HD-CVI Surveillance Kits

REMOTE VIEW VIA <b>QR CODE</b>	<b>RECORD ALL CHANNELS</b> 720p (1280x720)	COMPREHENSIVE REMOTE VIEW	<b>720P HD VIDEO</b> UP TO 500m
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Part No: CVR4PACK / CVR8PACK / CVR16PACK

This Securview Victory Series CVRPACK range is available in 4, 8 and 16 channel kits. Each kit includes weatherproof, 20m range infrared, 1.3 megapixel cameras that use the HD-CVI transmission standard, allowing for 500m transmission distances over coaxial cable. They are the perfect high definition over coax solution and can be used to upgrade/convert existing conventional analogue systems.\*

DVRs record each camera at 720p resolution (1280 x 720) in real-time (25fps) and can be customised to automatically record over old footage. This range features comprehensive remote view options for iOS (iPad, iPhone), Google Android devices and Windows Phone devices. Each system can also be viewed over a Windows PC network or viewed remotely over the Internet. Remote view on the CVR range can be configured easily and quickly via QR code. For full overview of each kit, see below:

4 Channel	8 Channel	16 Channel
<p><b>CVR4PACK Includes:</b></p> <ul style="list-style-type: none"> <li>• 4 Channel H.264 Digital Video Recorder with HDCVI transmission standard</li> <li>• 1 x 1TB Pre-installed Hard Drive</li> <li>• Records in 720p (1280 x 720) at 25fps</li> <li>• Simultaneous HDMI &amp; VGA video output</li> <li>• 4 x 1.3 Megapixel 20m Infrared Bullets Model: VSCV11MPFBIR</li> <li>• 1 x 1.5m CAT5 Ethernet Cable</li> <li>• 1 x 1m HDMI cable</li> </ul>	<p><b>CVR8PACK Includes:</b></p> <ul style="list-style-type: none"> <li>• 8 Channel H.264 Digital Video Recorder with HDCVI transmission standard</li> <li>• 1 x 2TB Pre-installed Hard Drive</li> <li>• Records in 720p (1280 x 720) at 25fps</li> <li>• Simultaneous HDMI &amp; VGA video output</li> <li>• 4 x 1.3 Megapixel 20m Infrared Bullets Model: VSCV11MPFBIR</li> <li>• 4 x 1.3 Megapixel, 20m Infrared Domes Model: VSCV11MPDIR</li> <li>• 1 x 1.5m CAT5 Ethernet Cable</li> <li>• 1 x 1m HDMI cable</li> </ul>	<p><b>CVR16PACK Includes:</b></p> <ul style="list-style-type: none"> <li>• 16 Channel H.264 Digital Video Recorder with HDCVI transmission standard</li> <li>• 1 x 2TB Pre-installed Hard Drive</li> <li>• Records in 720p (1280 x 720) at 25fps</li> <li>• Simultaneous HDMI, VGA &amp; BNC video output</li> <li>• 8 x 1.3 Megapixel 20m Infrared Bullets Model: VSCV11MPFBIR</li> <li>• 8 x 1.3 Megapixel, 20m Infrared Domes Model: VSCV11MPDIR</li> <li>• 1 x 1.5m CAT5 Ethernet Cable</li> <li>• 1 x 1m HDMI cable</li> </ul>

\* Incompatible with standard analogue cameras; system must use Victory Series cameras. Coaxial cable, splitters and power supplies not included. 8 Channel model shown. 23" widescreen monitor optional extra, not included in kit. All logos/branding are property of their respective owners.

Victory Series Kits Power Supply Accessory Pack

Part No: CVR4PACKACC

Accessory package built for new CCTV surveillance installations that use Securview Victory kits (above). It includes:

- 1 x 12VDC 5A Switch Mode Power Supply with Lead
- 1 x 5 port DC Plug Loom
- 4 x DC Power Connector Packs (Male & Female)





**1.3 Megapixel 20m Infrared Fixed Lens Bullet Camera**

**Part No: VSCVI1MPFBIR**

- 1/3" 1.3 Megapixel CMOS Sensor
- Min. Illumination: 0.01 Lux/F1.2
- Fixed 3.6mm Lens; 70° Angle of View
- 20m Maximum Infrared Range
- Record 25fps at 720p (1280 x 720)
- 500m Transmission Distance
- IP66 Rating, Weatherproof
- 70 x 66 x 160mm, 12VDC



**1.3 Megapixel 20m Infrared Fixed Lens Dome Camera**

**Part No: VSCVI1MPDIR**

- 1/3" 1.3 Megapixel CMOS Sensor
- Min. Illumination: 0.01 Lux/F1.2
- Fixed 3.6mm Lens; 70° Angle of View
- 20m Maximum Infrared Range
- Record 25fps at 720p (1280 x 720)
- 500m Transmission Distance
- IP66 Rating, Weatherproof
- Ø114 x 86mm, 12VDC



**1.4 Megapixel 30m Infrared IK10 Varifocal Lens Dome Camera**

**Part No: VSCVI1MPVDIR**

- 1/3" 1.4 Megapixel CMOS Sensor
- Min. Illumination: 0.01 Lux/F1.2
- Varifocal 2.7~12mm Lens
- 20m Maximum Infrared Range
- Record 25fps at 720p (1280 x 720)
- 500m Transmission Distance
- IP66 Rating, IK10 Vandal Resistant
- Ø122 x 89mm, 12VDC



**2.0 Megapixel 30m Infrared Motorised Lens Bullet Camera**

**Part No: VSCVI2MPFBIRM**

- 1/3" 2.0 Megapixel CMOS Sensor
- Min. Illumination: 0.05 Lux/F1.2
- Motorised 2.7~12mm Lens
- 30m Maximum Infrared Range
- Record 25fps at 1080p (1920 x 1080)
- 500m Transmission Distance
- IP66 Rating, Weatherproof
- 213 x 80 x 72mm, 12VDC



**2.0 Megapixel 20m Infrared IK10 Fixed Lens Dome Camera**

**Part No: VSCVI2MPVDIR**

- 1/2.8" 2.0 Megapixel CMOS Sensor
- Min. Illumination: 0.05 Lux/F1.2
- Fixed 3.6mm Lens; 70° Angle of View
- 20m Maximum Infrared Range
- Record 25fps at 1080p (1920 x 1080)
- 500m Transmission Distance
- IP66 Rating, IK10 Vandal Resistant
- Ø114 x 81mm, 12VDC



**2.0 Megapixel 30m Infrared IK10 Motorised Lens Dome Camera**

**Part No: VSCVI2MPVDIRM**

- 1/2.8" 2.0 Megapixel CMOS Sensor
- Min. Illumination: 0.05 Lux/F1.2
- Motorised 2.7~12mm Lens
- 20m Maximum Infrared Range
- Record 25fps at 1080p (1920 x 1080)
- 500m Transmission Distance
- IP66 Rating, IK10 Vandal Resistant
- Ø122 x 89mm, 12VDC



**1.3 Megapixel 100m Infrared 20x Optical Zoom PTZ Dome**

**Part No: VSCVI1MPPTZIR**

**Image**

- 1/3" 1.3 Megapixel CMOS Sensor
- Min. Illumination: 0.05 Lux/F1.2
- 4.7~94mm Varifocal Lens (Angle: 54°~3°)
- Close Focus Distance 100~1000mm
- 100m Maximum Infrared Range
- Day/Night Auto (ICR)
- Record 25fps at 720p (1280 x 720)
- 20x Optical Zoom; 16x Digital Zoom
- 2D/3D Digital Noise Reduction
- BLC / HLC / Digital WDR

**General**

- 500m Transmission Distance
- IP66 Rating, Weatherproof
- Ø205 x 336mm, 24VAC/2.2A

**PTZ**

- Pan: 0°~360°; Tilt: 15°~90°; Auto-flip 180°
- Preset Speed: Pan 240°/s; Tilt 200°/s
- Mode: 5 Pattern; 8 Tour; Auto-Pan/Scan
- Protocol: DH-SD, Pelco-P/D
- Up to 255 presets

**Full HD 1080** Also available in 2MP Full HD, Model: VSCVI2MPPTZIR



The Watchguard DVRE range is ideal for use in homes or small businesses. Real-time 960H (960 x 576) recording, remote view with setup via QR code and HDD capacity of up to 4TB is common across the range. These DVRs give the best that traditional analogue CCTV surveillance has to offer at an exceptional price.



**960H  
25FPS**

**Top analogue recording experience:**  
DVRs record at 960H resolution (960 x 576) in real-time (25 frames per second) across all cameras.



**CCTV on your smartphone in seconds:**  
Supports remote view configuration via QR code - scan the code to setup remote view in seconds.



**Remote view from anywhere:**  
Features comprehensive remote view options for iOS (iPhone, iPad), Google Android and Windows Phone devices.



**4 Channel 960H Standalone Analogue DVR**

**Part No: DVR4E**

- 4 Channel H.264 digital video recorder
- Record all channels at 960H@25fps
- Maximum record resolution 960 x 576
- HDMI / VGA / TV BNC Video Output
- Supports 1 SATA HDD (Up to 4TB)
- Config. remote view via QR code
- \* HDD sold separately**
- View on iOS, Android, and Windows Phone devices
- 4 Alarm Inputs / 3 Outputs
- Remote, HDMI cable & USB mouse included
- 325 x 245 x 45mm (Mini 1U)



**960H  
25FPS**



**8 Channel 960H Standalone Analogue DVR**

**Part No: DVR8E**

- 8 Channel H.264 digital video recorder
- Record all channels at 960H@25fps
- Maximum record resolution 960 x 576
- HDMI / VGA / TV BNC Video Output
- Supports 1 SATA HDD (Up to 4TB)
- Config. remote view via QR code
- \* HDD sold separately**
- View on iOS, Android, and Windows Phone devices
- 8 Alarm Inputs / 3 Outputs
- Remote, HDMI cable & USB mouse included
- 325 x 245 x 45mm (Mini 1U)



**960H  
25FPS**



**16 Channel 960H Standalone Analogue DVR**

**Part No: DVR16E**

- 16 Channel H.264 digital video recorder
- Record all channels at 960H@25fps
- Maximum record resolution 960 x 576
- HDMI / VGA / TV BNC Video Output
- Supports 1 SATA HDD (Up to 4TB)
- Config. remote view via QR code
- \* HDD sold separately**
- View on iOS, Android, and Windows Phone devices
- 16 Alarm Inputs / 1 Output
- Remote, HDMI cable & USB mouse included
- 325 x 245 x 45mm (Mini 1U)



**960H  
25FPS**





**Complete 4, 8 & 16 Channel 960H Analogue Surveillance Kits**

**Part No: DVR4EPACK / DVR8EPACK / DVR16EPACK**



The DVREPACK range is available in 4, 8 and 16 channel kits. They include weatherproof, 15m range infrared, 650 TVL cameras. This makes them ideal for indoor or outdoor use, in all kinds of lighting conditions. DVRs can record each camera at D1 resolution (704 x 576) in real-time (25fps) and can be customised to automatically record over old footage. Each kit can be viewed over a Windows PC network or viewed remotely over the Internet. All cabling, remote control, hard disk drive (up to 2TB) and power supplies are included in the kit.

4 Channel	8 Channel	16 Channel
<p><b>DVR4EPACK Kit Includes:</b></p> <ul style="list-style-type: none"> <li>• 4 Channel H.264 Digital Video Recorder</li> <li>• 1TB Hard Drive / IR Remote</li> <li>• Records All Cameras in D1 (704x576) at 25fps</li> <li>• HDMI / VGA / TV BNC Video Output</li> <li>• 4 x 650TVL 15m Infrared, Weatherproof Bullet Cameras</li> <li>• Power Supplies &amp; Network Cable</li> <li>• Pre-wired and Pre-terminated Line-fed Camera and Power Cables Included</li> <li>• 4 Alarm Inputs / 3 Relay Outputs</li> </ul>	<p><b>DVR8EPACK Kit Includes:</b></p> <ul style="list-style-type: none"> <li>• 8 Channel H.264 Digital Video Recorder</li> <li>• 1TB Hard Drive / IR Remote / USB Mouse</li> <li>• Records All Cameras in D1 (704x576) at 25fps</li> <li>• HDMI / VGA / TV BNC Video Output</li> <li>• 4 x 650TVL 15m Infrared, Weatherproof Bullet Cameras</li> <li>• 4 x 650TVL 15m Infrared, Vandal Resistant, Dome Cameras</li> <li>• Pre-wired and Pre-terminated Line-fed Camera and Power Cables Included</li> <li>• 8 Alarm Inputs / 3 Relay Outputs</li> </ul>	<p><b>DVR16EPACK Kit Includes:</b></p> <ul style="list-style-type: none"> <li>• 16 Channel H.264 Digital Video Recorder</li> <li>• 2TB Hard Drive / IR Remote / USB Mouse</li> <li>• Records All Cameras in D1 (704x576) at 25fps</li> <li>• HDMI / VGA / TV BNC Video Output</li> <li>• 12 x 650TVL 15m Infrared, Weatherproof Bullet Cameras</li> <li>• 4 x 650TVL 15m Infrared, Vandal Resistant, Dome Cameras</li> <li>• Pre-wired and Pre-terminated Line-fed Camera and Power Cables Included</li> <li>• 16 Alarm Inputs / 1 Relay Output</li> </ul>

Please see below for bundled camera specifications.




Specifications	VSWFF15MIR650B
Image Sensor	1/3" CMOS + IR Cut Filter
Min. Illumination	0.2 Lux/F2.0
Lens	Fixed 3.6mm
Maximum IR Range	15m
Resolution	Colour: 650TVL / B&W: 700TVL
Housing Rating	IP66
Dimensions	170(L) x 65(W) x 69(H)mm
Power	12VDC
Weight	0.6kg

Specifications	VSDFF15MIR650VP
Image Sensor	1/3" CMOS + IR Cut Filter
Min. Illumination	0.2 Lux/F2.0
Lens	Fixed 3.6mm
Maximum IR Range	15m
Resolution	Colour: 650TVL / B&W: 700TVL
Housing Rating	IP66
Dimensions	Ø110 x 90mm
Power	12VDC
Weight	0.5kg

\* 8 Channel model shown. Monitor optional extra, not available with kit. For monitor-included packs, use model numbers: DVR4EPACKM / DVR8EPACKM / DVR16EPACKM

SECURVIEW PROFESSIONAL ANALOGUE DVRs

The Securview Professional Range of analogue DVRs are fully featured analogue surveillance systems designed with versatility at their core.

This range gives you the freedom to customise your storage, backup, recording and monitoring needs with the largest feature set of any premium analogue DVR.

Features:

<b>RECORD ALL CHANNELS D1@ 25FPS</b>	<b>DVD / USB / NETWORK BACKUP</b>
<b>6 SATA &amp; 1 eSATA UP TO 24TB</b>	<b>WATCH ON YOUR SMARTPHONE</b>
<b>32 SYSTEMS UP TO CHANNELS</b>	<b>MULTIPLE VIDEO OUTPUT HDMI / VGA / BNC</b>
<b>Mix &amp; Match Cameras to DVRVIEW DVRs: See page 25-27 for Camera Range</b>	



SECURVIEW

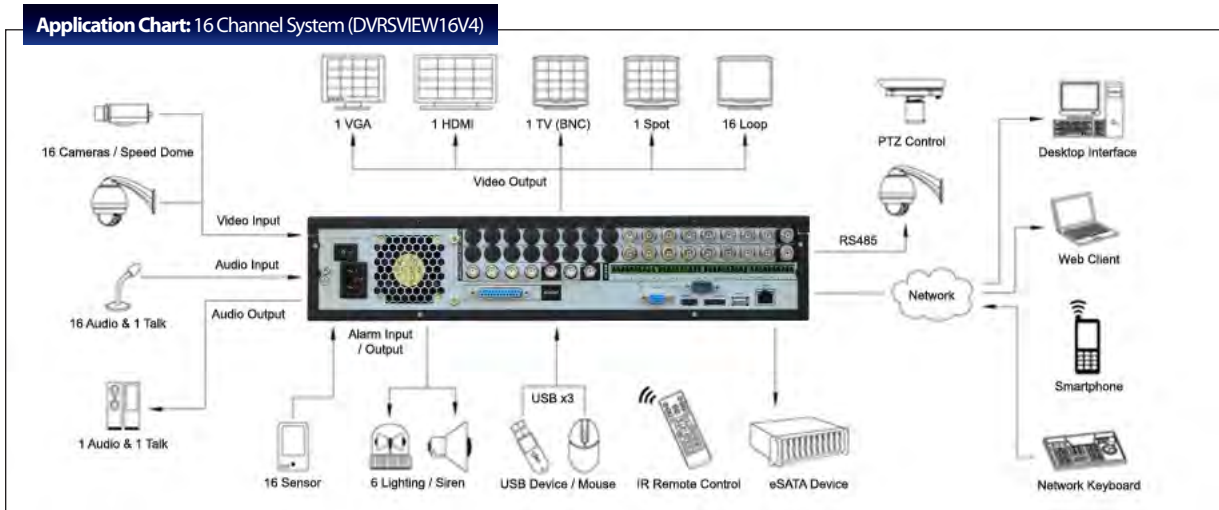
Professional Real-Time Recording Standalone DVR Range

Part No: DVRVIEW8V4 / DVRVIEW16V4 / DVRVIEW24V4 / DVRVIEW32V4

The DVRVIEW DVR range is available in four different systems: 8 channel, 16 channel, 24 channel and 32 channel. Each DVR comes standard with the features listed above. For a more detailed view, see below.

Each DVRVIEW model features:

- H.264 Dual Stream Video Compression
- 1080p Real-time Display Preview
- D1 Recording (704 x 576) in Real-time (25fps) Across All Channels
- 16 Channel Synchronous Real-time Playback
- Built-in DVD / CD Burner for Backup
- Up to 24TB of Internal HDD Storage
- \*HDDs sold separately
- Multiple Video Output - HDMI / VGA / BNC / Spot / TV
- RS485 Compatible for PTZ Control
- 3x USB Ports / Single RS232 Port
- View on Smartphone / Tablet - iOS / Android / Windows Phone
- Dimensions 440(W) x 460(D) x 89(H)mm
- 6.5kg (without HDDs)



\* 16 Channel model shown.





### 700 TVL 30m Infrared Wide Dynamic Range Vandal Resistant & Weather Proof Dome Camera

Part No: VSDVF30MIR700W

#### Image

- 1/3" Super HAD CCD II Sensor
- Sony Effio-E DSP
- 700 TVL Resolution
- 2.8~12mm Varifocal Manual Lens
- Min. Illumination: 0.005 Lux/F1.4
- 30m Maximum IR Range
- BLC / HLC / WDR (75dB) Backlight Compensation

#### General

- 12VDC
- Ø160mm x 119mm
- 1.0kg



### 650 TVL 30m Infrared Vandal/Weather Proof Dome Camera

Part No: VSDVF30MIR2.8-12

#### Image

- 1/3" Sony Exview HAD CCD II Sensor
- Sony Effio-E DSP
- 650 TVL Resolution
- 2.8~12mm Varifocal Manual Lens
- Min. Illumination: 0.001 Lux/F2.0
- 30m Maximum IR Range

#### General

- 12VDC
- Ø119mm x 100mm
- 0.90kg



### 650 TVL 15m Infrared Indoor Dome Camera

Part No: VSDVF15MIR650V2

#### Image

- 1/3" Exview HAD CCD II
- 650 TVL Resolution
- 4 - 9mm Manual Varifocal
- Min. Illumination: 0.001 Lux/F2.0
- 15m Maximum IR Range

#### General

- 12VDC
- Ø127mm x 91mm
- 0.60kg
- Indoor Dome Only



### 650 TVL 15m Infrared Vandal/Weather Proof Dome Camera

Part No: VSDFF15MIR650VP

#### Image

- 1/3" CMOS + IR Cut filter
- 650 TVL Resolution
- 3.6mm Fixed Lens
- Min. Illumination: 0.2 Lux/F2.0
- 15m Maximum IR Range

#### General

- 12VDC
- IP66 Rating
- Ø110mm x 90mm
- 0.50kg



### 650 TVL 40m Infrared Weather Proof Outdoor Camera

Part No: VSWVF40MIR2.8-12

#### Image

- 1/3" Sony Exview HAD CCD II Sensor
- Sony Effio-E DSP
- 650 TVL Resolution
- 2.8~12mm Varifocal Manual Lens
- Min. Illumination: 0.001 Lux/F2.0
- 40m Maximum IR Range

#### General

- 12VDC
- 260(L) x 103(W) x 101(H)mm
- 1.80kg



### 650 TVL 40m Infrared Weather Proof Outdoor Camera

Part No: VSWVF40MIR9-22

#### Image

- 1/3" Sony Exview HAD CCD II Sensor
- Sony Effio-E DSP
- 650 TVL Resolution
- 9~22mm Varifocal Manual Lens
- Min. Illumination: 0.001 Lux/F2.0
- 40m Maximum IR Range

#### General

- 12VDC
- 260(L) x 103(W) x 101(H)mm
- 1.80kg



### 650 TVL 15m Infrared Weather Proof Bullet Camera

Part No: VSWFF15MIR650B

#### Image

- 1/3" CMOS + IR Cut filter
- 650 TVL Resolution
- 3.6mm Fixed Lens
- Min. Illumination: 0.2 Lux/F2.0
- 15m Maximum IR Range

#### General

- 12VDC
- IP66 Rating
- 170(L) x 65(W) x 69(H)mm
- 0.60kg



### 560 TVL Day/Night PTZ Dome with 23x Optical Zoom

Part No: VSPTZ55WDN

The durable VSPTZ55WDN is built for outdoor use. The dome camera features automatic tracking/patrol modes and 128 preset positions. Four alarm inputs can be linked to preset camera positions and one alarm output.

#### Image

- 1/4" Super HAD CCD Sensor
- 560 TVL Resolution
- 3.5~80.5mm Lens at F1.6~F2.4
- Min. Illumination: 0.2 Lux/F1.4

#### PTZ Function

- 23x Optical / 16x Digital Zoom
- AWB/ATW White Balance
- RS485 Pelco-D/P
- Speed: 300°/s Pan | 150°/s Tilt

#### General

- 24VAC / 2Amp
- IP66 External Housing
- Ø340mm x 440mm
- 7.20kg





### 700 TVL Day/Night Full Body Camera

**Part No: VSFB700W**

#### Image

- 1/3" Sony Exview HAD CCD II Sensor
- Sony Effio-E DSP
- 700 TVL Resolution
- Mount Type C / CS
- Min. Illumination: 0.001 Lux/F1.2
- BLC / HLC / DWDR Backlight Compensation

#### General

- 12VDC
- 131(L) x 131(W) x 60(H)mm
- 0.50kg
- \*Lens Not Included



## SECURVIEW™

### Analogue Camera Lenses

**Part No: See Below**

**Part No: VSLA2.8-12DC**

2.8 ~ 12mm DC Varifocal auto iris lens

**Part No: VSLA6-60DC**

6 ~ 60mm DC Varifocal auto iris lens

**Part No: VSLM2.8-12**

2.8 ~ 12mm Varifocal manual iris lens

## ANALOGUE CAMERA ACCESSORIES



### Camera Installation Monitor with 2.8" LCD (960 x 240)

**Part No: VSCAMTESTERV2**

Portable test monitor used to test, adjust and focus surveillance cameras while mounted.

- Supports over 20 common PTZ protocols including: Pelco P/D, Samsung, Panasonic, TeleEye; read/display of PTZ commands
- Looped output allows camera signal to remain connected to the DVR during configuration
- Auto selects PAL or NTSC signal mode
- 11 hours rechargeable battery



### Full Featured Speed Dome Controller & Joystick

**Part No: VSPTZKB**

- Controls up to 32 speed dome cameras
- RS485 Multi Protocol with LCD Display
- 0~255 address range for camera & decoder
- Up to 128 preset positions & 6 cruising tracks
- Manual or automatic camera controller
- Manual control of focus, zoom & lens iris

### Audio Microphone with Pre-Amplifier

**Part No: VSAMICV2**

- Add-on mini audio microphone
- To be mounted next to the camera
- High sensitivity
- Audio output 2Vp-p (max)
- Power: 12VDC at 10mA



Storage for Life



# Seagate Hard Drives Optimized for Surveillance



## Surveillance HDD

Camera Supported: Up to 32

- Capacity: 3TB, 4TB
- Spin Speed: 7200 RPM
- Cache: 64MB
- RAID Support, Low Power, RV sensor

## NAS HDD

Camera Supported: Up to 32

- Capacity: 2TB, 3TB, 4TB
- Spin Speed: 5900 RPM
- Cache: 64MB
- Low Power, Quiet Operation

## Video 3.5 HDD

Camera Supported: < 18

- Capacity: 1TB, 2TB, 3TB, 4TB
- Spin Speed: 5900 RPM
- Cache: 64MB
- Low Power, Quiet Operation

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## RhinoCo Recommends: Seagate Storage Solutions

RhinoCo Technology recommends the Seagate range of hard disk drives optimised for use with CCTV surveillance. They are the ideal storage solution for reliability and performance, even under continual and prolonged use. The VIP Vision, Securview and Watchguard range of DVRs and NVRs each utilise Seagate storage solutions for an optimum surveillance experience.



### 1TB Surveillance Hard Drive

Part No: HD1TBSV

Reliable, 1TB capacity hard disk drive optimised for low power consumption and quiet operation. Ideal for entry level or home surveillance system storage.



### 2TB Surveillance HDD

Part No: HD2TBSV

Purpose built VX 2TB hard disk drive. Designed and tested for reliable use in 24/7 operating environments such as network attached storage.



### 4TB Surveillance HDD

Part No: HD4TBSV

Purpose built VX 4TB hard disk drive. Designed and tested for reliable use in 24/7 operating environments such as network attached storage.

## PROFESSIONAL DATA CABINETS



### Free Standing Data Cabinets

Model	RU	Depth
RACKMOUNTCAB18-600F	18	600
RACKMOUNTCAB18-800F	18	800
RACKMOUNTCAB22-600F	22	600
RACKMOUNTCAB22-800F	22	800
RACKMOUNTCAB22-1100F	22	1100
RACKMOUNTCAB32-600F	32	600
RACKMOUNTCAB32-800F	32	800
RACKMOUNTCAB42-600F	42	600
RACKMOUNTCAB42-800F	42	800
RACKMOUNTCAB42-1100F	42	1100
RACKMOUNTCAB47-1100F	47	1100



### Wall Mount Data Cabinets

Model	RU	Depth
RACKMOUNTCAB6-450W	6	450
RACKMOUNTCAB6-600W	6	600
RACKMOUNTCAB12-450W	12	450
RACKMOUNTCAB12-600W	12	600
RACKMOUNTCAB15-450W	15	450
RACKMOUNTCAB15-600W	15	600
RACKMOUNTCAB18-450W	18	450

- Lockable front (glass) and rear (metal) doors
- Free Standing models available with castor wheels or fixed stands
- Additional accessories and sizes available

DVR RACKMOUNT UNITS



**Professional 19" 3U Rack Mount PC/DVR Case**

**Part No: DVRCASE3 / DVRCASE3RUNAS**

This professional 19" rack mount PC/DVR case comes supplied with all the cabling required to connect your components.

- 3U rack mount chassis
  - Power supply not included
- Also Available in a 16 Bay Rack Mount**



**High Performance 16 Bay Storage Server**

**Part No: DVRSERVER3RU16B**

This model is built to handle high volume data response in an ultra cool thermal environment that maximizes storage server possibilities, making it ideal for security applications as an operating server or network attached storage.

This range supports redundant power supplies, up to 50 bays of hot-swap hard drives, hot-swap fans and Dual/Quad Intel® Xeon™ and AMD® Opteron™ server board. Featuring all server-grade dedicated hardware such as Intel Xeon CPU, Intel main board, and solid-state OS hard drives, SAS or SATA storage options, RAID (0,1,5,6,10) configurations support, this system is flexible enough to meet all your storage requirements from 10 - 100TB per server.

Designed and built by RhinoCo Technology in Australia, it is also backed up by comprehensive local hardware and technical support.

<sup>2</sup> Upgradable to 2 x 2 TB

<sup>3</sup> Analogue Max. D1 / IP Mega Pixel Recording Rate is camera dependent

- Drive bays: 16 x 3.5" Hot Swap, 2 x 2.5" Internal, 1 x Slim CD, 1 x Slim FDD
- Ventilation: 3 x 9cm Fans, 2 x 6cm Fans
- SAS, SATA or SATA 3.0Bb/s interface
- LSI 16 Port RAID Config 0, 1, 5, 6, 10
- Intel Xeon(R) Quad Core X3430 or above
- RAM: 4GB DDR3 or above
- Intel(R) Server Board S3000 series
- NIC: Dual GbE
- Ubuntu Operating System
- 64GB Kingston SSD
- 10x USB 2.0 Ports
- 600W Fixed or Redundant PSU with Warning Indicator
- 480(W) x 130.5(H) x 710(D) mm

CCTV SURVEILLANCE SIGNS



**Securview A4 CCTV Warning Sign**

**Part No: VSA24**

- Corflute A4 Sign (212 x 299mm)
- CCTV Warning Sign
- Weather and UV Resistant
- Security Camera Graphic



**Part No: VSCDCC**

**A3 CCTV Warning Sign**

- Corflute A3 Sign (420 x 297mm)
- CCTV Warning Sign
- Weather and UV Resistant



**A4 CCTV Warning Stickers Pack**

**Part No: VSCDSC**

- Includes 4x A4 Sized CCTV Stickers
- 2x Rear Adhesive for flat surfaces
- 2x Front Adhesive for interior windows



**4x CCTV Warning Stickers Pack**

**Part No: VSCDSC**

- W130 x H100mm
- 4 x Rear Adhesive Stickers for use on flat surfaces

INFRARED ILLUMINATORS



**100 Metre Infrared Illuminator**

**Part No: VS-IR12**

- 12pcs LED
- 100m Maximum Indoor IR Distance
- 10° Wide Coverage Beam Angle
- -10°C ~ 50°C Operating Temperature
- 0.7kg
- W90 x H95 x D100mm



**150 Metre Infrared Illuminator**

**Part No: VS-IR18**

- 18pcs LED
- 150m Maximum Indoor IR Distance
- 10° Beam Angle
- -10°C ~ 50°C Operating Temperature
- 0.7kg
- W90 x H95 x D100mm

## CAMERA HOUSINGS & BRACKETS



### Right Angle Wall Mount Bracket for VSIP3MPVDIR

**Part No: VSIP3MPVDIRBKT**

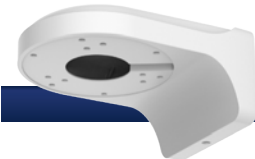
- Aluminium Alloy Body
- 250 x 160 x 102mm
- Max.15kg Load Capacity
- For VSIP3MPVDIR
- For VSDVF30MIR700W



### Classical Weatherproof Camera Housing with Bracket

**Part No: VSTPH-1000**

- Suitable for Cameras No Larger than: 90(W) x 70(H) x 230(L)mm
- Weatherproof IP66 Rated
- Lightweight Aluminium Construction
- Housing Dimensions: 110(W) x 100(H) x 340(L)mm



### Wall Mount Bracket for Victory Series and IP Dome Cameras

**Part No: VSIPDOMEBKT**

- Aluminium Body
- 2160 x 120 x 74mm
- Max.1kg Load Capacity
- For VSIP3MPDIR
- For VSIP3MPVDMINIIR



### Metal Swivel & Tilt Camera Brackets

**Part No: VSICA11**

- VSICA11 - Metal Bracket
- 100mm in Length



### Right Angle Bracket for IP Dome Camera

**Part No: VSIP3MPVDBKT**

- Aluminium Body
- 134 x 134 x 187.5mm
- Max.3kg Load Capacity
- Use with VSIP3MPVDADAPTER
- For VSIP3MPVDIRM
- For VSIP3MPVDIRV2



### Pole Bracket

**Part No: VS15-CD04BV**

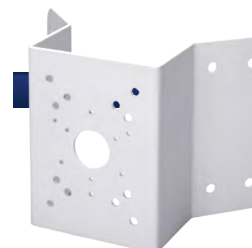
- Allows Camera Mounting on Poles with Adjustable Fixing Bands
- Suitable for Poles Ø110~150mm
- Maximum Load: 40kg



### Wall Mount Adapter for VIP Vision 3.0 Megapixel Dome

**Part No: VSIP3MPVDADAPTER**

- Aluminium Body
- Ø150.8 x 37mm
- Use with VSIP3MPVDBKT
- For VSIP3MPVDIRM
- For VSIP3MPVDIRV2



### Corner Bracket

**Part No: VSIPCORNERBKT**

- Allows Camera Mounting on Poles with Adjustable Fixing Bands
- Suitable for Poles Ø110~150mm
- Maximum Load: 40kg



### Camera Spacer / Junction Box

**Part No: VSIPSPACER**

- Aluminum & SECC Body
- Ø138 x 42mm
- Extra spacing for Wall mount / ceiling mount
- Alternative storage for camera's cable



### Heavy Duty Outdoor Housing & Pendant Set

**Part No: VSPTZHOUSINGEX**

- 180mm Recommended Maximum Length of Camera/Lens
- Weatherproof IP66 Rated
- Powder Coated Aluminium
- Housing Dimensions incl. Bracket: 275(W) x 330(H)mm
- Corner Bracket VS15-05BM Available



Don't Let Your High Definition Surveillance Go Unnoticed



If you sell or install 1.3, 2.0, 3.0 or 5.0 megapixel high definition CCTV surveillance systems, you need a display to match. RhinoCo Technology features a large range of CCTV monitor and display solutions to compliment your VIP Vision, Watchguard and Securview HD CCTV. Deliver the wow factor that high definition CCTV offers in an instant with these surveillance displays & televisions.



**19" / 20" Widescreen LED Monitor**

**Part No: LCDLG19W / LCDAOC20W**

Display more cameras and have a clear view of all your feeds with this 20" widescreen monitor. Enjoy crisp and vivid pictures with 1600x900 resolution and 5ms response time.

- 19.5" Screen Size
- 16:9 Aspect Ratio
- 200 cd/m<sup>2</sup> Brightness
- 1600x900@60Hz Resolution
- 5ms Response Time
- 2.11kg
- 3 Year Warranty



**23" / 24" Full HD Monitors**

**Part No: LCDLG23W / LCDAOC24W**

Display more cameras and have a clear view of all your feeds with this 24" monitor. This model is designed to save you on space and electricity with elegantly slim design and energy efficient LED backlighting technology.

- 23.6" Screen Size
- 16:9 Aspect Ratio
- 300 cd/m<sup>2</sup> Brightness
- 1920x1080@60Hz Resolution
- 2ms Response Time
- 4.45kg
- 3 Year Warranty





## Hisense

### 32" High Definition LED-LCD TV

Part No: TVHS32

Display more cameras and have a clear view of all your feeds with this 32" TV. This model is designed to save you on space and electricity with elegantly slim design and energy efficient LED backlighting technology.

- 32" Screen Size
- 1200 : 1 Contrast Ratio
- 300 cd/m<sup>2</sup> Brightness
- 1366 x 768@60Hz Resolution
- 3x HDMI Input
- 6.2kg



## Hisense

### 40" Full High Definition LED-LCD TV

Part No: TVHS40

Display more cameras and have a clear view of all your feeds with this 40" TV. This model is designed to save you on space and electricity with elegantly slim design and energy efficient LED backlighting technology.

- 40" Screen Size
- 5000 : 1 Contrast Ratio
- 310 cd/m<sup>2</sup> Brightness
- 1920 x 1080@60Hz Resolution
- 3x HDMI Input
- 10.5kg



## Hisense VISION SERIES

### 50" Full High Definition 3D Smart LED-LCD TV

Part No: TVHS50

Professionally display your surveillance system whilst having the benefits of a Smart TV. Unlock the potential of a connected TV - access the Google Play Store as well as browse on Google Chrome. Also, save on space and electricity with elegantly slim design and energy efficient LED backlighting technology.

- 50" Screen Size
- Full HD 3D Display
- 5000 : 1 Contrast Ratio
- 350 cd/m<sup>2</sup> Brightness
- 1920 x 1080@60Hz Resolution
- 4x HDMI Input
- Android 4.2.2 Jelly Bean
- Access Google Play & Chrome
- 8GB Internal Storage
- Built-in Wifi



## MONITOR BRACKETS



### Wall Mount Flat Panel Bracket

Part No: LCDBRACKET

- Standard VESA 50/75/100
- Accommodates Display Sizes 10" to 22" (25~56cm) - Diagonally Measured
- Min. & Max. Distance from Wall: 80mm
- ±15° Vertical Tilt
- Max Load 10kg



### Wall Mount Flat Panel Swivel Bracket

Part No: LCDBRACKETSW

- Standard VESA 50/75/100/200x100
- Accommodates Display Sizes 10"~30" (25~76cm) - Diagonally Measured
- 180° Swivel Rotation at Wall
- 190° Swivel Rotation at Arm
- Min. Distance to Wall: 80mm
- Max. Distance to Wall: 280mm
- ±20° Vertical Tilt
- Max Load 20kg



### Flat Panel Wall Mounting Bracket (Up to 20 KG)

Part No: LCDBRACKET20

- Standard VESA 50/75/100/200
- Accommodates Display Sizes 10" to 30"
- Min. & Max. Distance from Wall: 80mm
- ±20° Tilt ±90° Swivel
- Max Load 20kg



**Cisco 300 Series Managed Switches**

The Cisco 300 Series is a broad portfolio of affordable managed switches that provide a powerful foundation for your business network. These switches improve the availability of your critical business applications, protect your sensitive information, and optimize your network bandwidth to enable a more productive, effective workplace. Easy to set up and use, the Cisco 300 Series provides the ideal combination of affordability, performance, and capabilities in a solution designed specifically for small businesses.

Model	Ports	PoE	Expansion
<b>Fast Ethernet</b>			
CISCO-SF300-08	8-port 10/100		
CISCO-SF302-08P	8-port 10/100	62W	2 Combo* mini-GBIC slots
CISCO-SF302-08MP	8-port 10/100	124W	2 10/100/1000 ports and 2 Combo* mini-GBIC slots
CISCO-SF300-24	24-port 10/100		2 10/100/1000 ports and 2 Combo* mini-GBIC slots
CISCO-SF300-24P	24-port 10/100	180W	2 10/100/1000 ports and 2 Combo* mini-GBIC slots
CISCO-SF300-24MP	24-port 10/100	375W	2 10/100/1000 ports and 2 Combo* mini-GBIC slots
CISCO-SF300-48	48-port 10/100		2 10/100/1000 ports and 2 Combo* mini-GBIC slots
CISCO-SF300-48P	48-port 10/100	375W	2 10/100/1000 ports and 2 Combo* mini-GBIC slots
<b>Gigabit Ethernet</b>			
CISCO-SG300-10	8-port 10/100/1000		2 Combo* mini-GBIC slots
CISCO-SG300-10P	8-port 10/100/1000	62W	2 Combo* mini-GBIC slots
CISCO-SG300-10MP	8-port 10/100/1000	124W	2 Combo* mini-GBIC slots
CISCO-SG300-20	18-port 10/100/1000		2 Combo* mini-GBIC slots
CISCO-SG300-28	26-port 10/100/1000		2 Combo* mini-GBIC slots
CISCO-SG300-28P	26-port 10/100/1000	180W	2 Combo* mini-GBIC slots
CISCO-SG300-28MP	26-port 10/100/1000	375W	2 Combo* mini-GBIC slots
CISCO-SG300-52	50-port 10/100/1000		2 Combo* mini-GBIC slots
CISCO-SG300-52P	50-port 10/100/1000	375W	2 Combo* mini-GBIC slots
CISCO-SG300-52MP	50-port 10/100/1000	740W	2 Combo* mini-GBIC slots
<b>Expansion Modules</b>			
CISCO-MGBLX1	Single-mode fibre (1310nm) mini-GBIC module		10/100/1000 Mbps
CISCO-MGBSX1	Multi-mode fibre (1310nm) mini-GBIC module		10/100/1000 Mbps

\* Each combo mini-gigabit interface converter (GBIC) port has one 10/100/1000 Ethernet port and one mini-GBIC/Small Form-Factor Pluggable (SFP) Gigabit Ethernet, with one port active at a time



**Unmanaged Switches**

Our range of unmanaged switches provide a cost-effective solution for deploying network access.

Model	Ports	PoE
<b>Fast Ethernet</b>		
VS8PORTPOEv2	8-port 10/100	X
<b>Gigabit Ethernet</b>		
VS8PORTSWITCH	8-port 10/100/1000	

**Power Over Ethernet (PoE) Injectors/Receivers**

**Part No: WT-CAT5POEI / WT-CAT5POER**

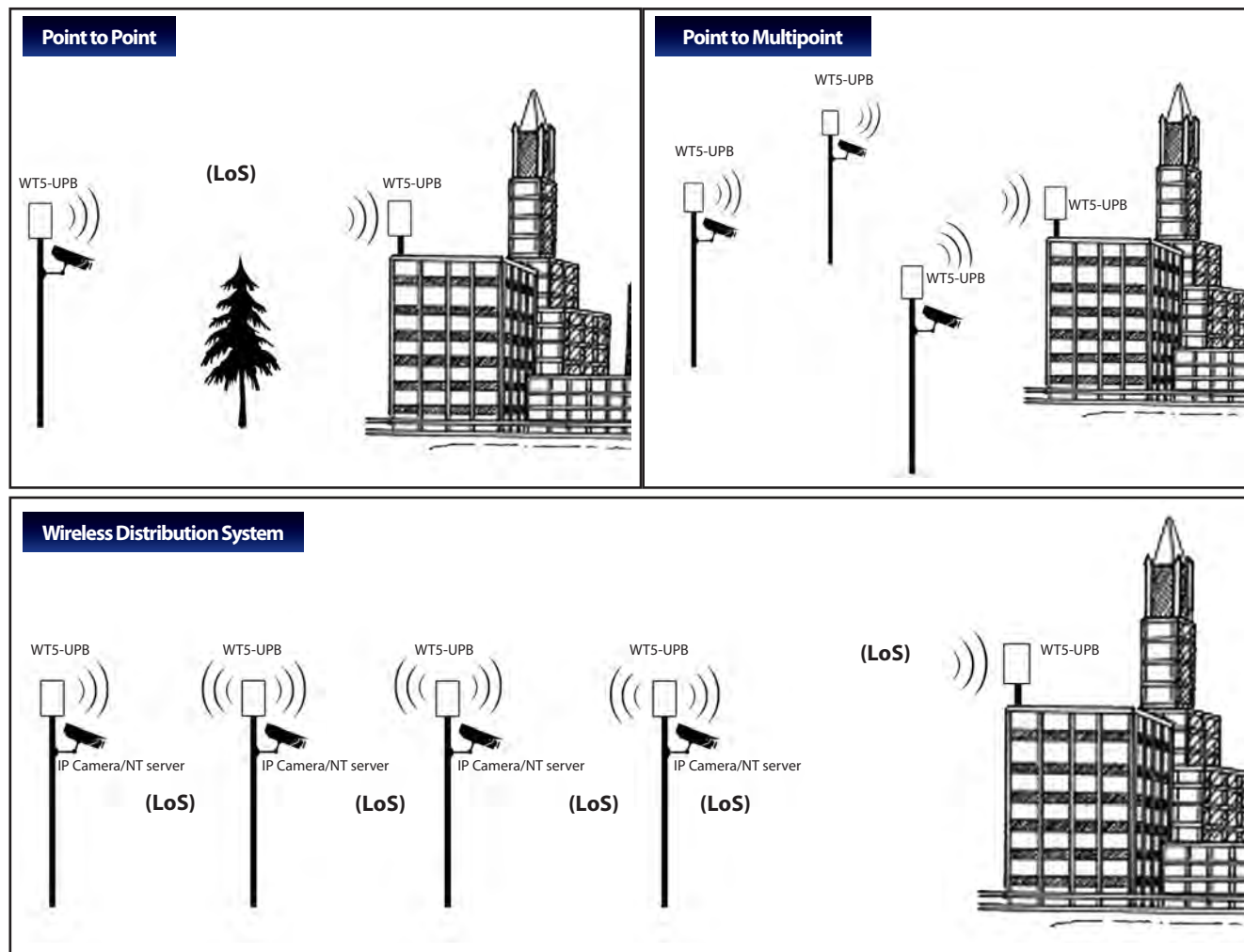
**WT-CAT5POEI Injector:**

This Ethernet line in Power Over Ethernet Injector provides 48VDC power and up to 100mbps data transfer rate through a standard CAT5 cable.

**WT-CAT5POER Receiver:**

This Ethernet line in Power Over Ethernet Receiver provides 5VDC & 12VDC power output up to 100m. Supports gigabit speeds (1000Mbps). Receiver is 802.3af compliant.

We can customise your wireless solution utilising our range of analogue and digital transmission devices. If you have a specific inquiry please visit us at [www.rhino.com.au](http://www.rhino.com.au) for further information or call our sales team. Below are some examples of typical installations using our wireless transmission products:



**Glossary of Terms**

**IEEE 802.11** - A set of standards for wireless local area network (WLAN) computer communication in the 5 GHz and 2.4 GHz public spectrum bands.

**Access Point (AP)** - Wireless base station which coordinates communication for wireless clients between each other and with the wired network.

**Wireless Distribution System (WDS)** - Method for linking many wireless access points to form a mesh-like network.

**Wireless LAN** - One or more access points and their associated clients which communicate by radio to form a data network.

**Wireless Bridge** - A pair of access points configured in bridge mode allowing two wired networks to be transparently connected through wireless link.

**Line of Sight (LoS)** - A clear, straight line path between wireless devices which is in no way obstructed by buildings or trees.

WIRELESS TRANSMISSION 2.4GHZ

**2.4GHz Panel Antenna 18dBi**

**Part No: VS15-2400AP18**

Our 18dbi directional panel antenna can extend an existing wireless access point on a single floor by positioning the unit in the corner of the building.

These antennas can also be used for a point-to-point network bridge between buildings in a campus-type environment or between two remote areas. Finally, they provide multi-floor transmission when placed on a ceiling, as the higher power output extends the range through typical flooring materials. Our antenna package includes several mounting options, such as fixed, wall-adjustable, and pole.



**2.4GHz Digital Wireless Transmitter & Receiver Set**

**Part No: AVTXRX2.4**

This system is the ideal product for use when multiple wireless video/audio links are required for any commercial, industrial or consumer application.

An example application would be to create a wireless network over which you wanted to transmit video footage from your camera to your DVR or Monitor. Simply connect the camera to the Transmitter box and your DVR or Monitor to the Receiver box.



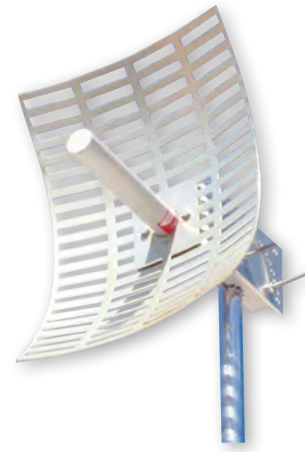
WIRELESS TRANSMISSION 5.8GHZ (DIGITAL)



**5GHz Wireless Access Point 802.11a/n 600mw 16dBi**

**Part No: WT5-UNS**

- 150+ Mbps real outdoor throughput and up to 15km+ range. Featuring 2x2 MIMO technology, the WT5-UNS links significantly faster and farther than ever before
- New antenna array designs featuring 16dBi at 5GHz with optimised cross-polarity isolation in a compact form-factor
- Dual Ethernet Connectivity: the WT5-UNS provides a secondary Ethernet port with software enabled POE output for seamless IP Video integration
- Intelligent PoE: Remote hardware reset circuitry of WT5-UNS allows for device to be reset remotely from power supply location



**5.8GHz Grid Antenna 24dBi**

**Part No: WT5-GA24**

- Compact 5.8GHz grid antenna suitable for point-to-point operation with simple installation and calibration
- Low mast and wind loading
- Single piece, surface-treated, corrosion resistant aluminium alloy grid reflector
- Stainless steel/aluminium mount
- Vented weatherproof feed housing with micro-porous membrane
- Durable solid brass feed
- Good multi-path interference rejection



**5.8GHz Panel Antenna 21dBi**

**Part No: WT5-PA21**

- 21dBi 5.8GHz panel directional antenna, perfect for use as a point-to-point network for wireless connections between LANs
- Ideal for campus-type environments or between two remote areas



**5.8GHz Panel Antenna 25dBi**

**Part No: WT5-UPB**

- 25 dBi low power directional panel antenna for connecting two LAN points wirelessly. Includes stabilising enclosure to prevent interference
- This compact and powerful antenna is powered by PoE sources



**5.8GHz Sector Directional Antenna 21dBi**

**Part No: WT5-SA21**

- WT5-SA21 is a professional quality "cell site" base station antenna
- Designed primarily for carrier-class applications and service providers using the 5.1 to 5.9 GHz ISM band
- Includes a directional orientation bracket for adjusting the main beam width and angle to maximise reception and transmission signal strength
- Designed specifically for outdoor building-to-building applications with buildings of various heights



**5.8GHz Omni-directional Antenna 12dBi**

**Part No: WT5-ODA12**

- The WT5-ODA12 is designed to radiate radio-frequency energy equally in all directions for widespread and all-point wireless deployment.
- This antenna is especially useful for optimising coverage when you want to place your wireless access point or router out of plain view, in a wiring closet or above a ceiling pad.

# SECURITY & SAFETY PRODUCTS

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Watchguard™ Alarms, a renowned leader in the electronic security industry for some 34 years, takes great pride in bringing you a new range of Professional Alarm Panels. Our Australian-Designed SMS8 Alarm Panel has been the flagship product of the Watchguard Brand, with many thousands sold and protecting properties worldwide. We have now expanded our range of alarm panels by introducing a wider range of options in this field.

Our new 864 panels are produced by South Africa's leading control panel manufacturer - Inhep Digital Security (IDS). Their product range is renowned for its robust reliability and simplicity. Their dedicated team of engineers have been responsible for designing and developing intrusion detection equipment that now has an international following. The design focus has always been 'simplicity and reliability'. Their proprietary products are regularly tested by SABS (South African Bureau of Standards) and, where applicable, by the appropriate test laboratories in other countries to ensure compliance to international standards.

Over the past 20 years this range of alarm panels has developed a hard-won reputation of robust reliability and quality. Developed to meet the harsh conditions of Africa, the alarm panels are used by the premier monitoring and response companies in South Africa - probably the world's most demanding security market. This recognition has extended onto the international stage with IDS distribution networks now serving at least 16 countries on 4 continents.

IDS engineers are driven by the passion to eliminate clutter and complexity, and to develop simple, robust, elegant solutions to real-world problems. Watchguard™ Alarms is proud to be associated with IDS - where others create confusion, together we create certainty.



### WATCHGUARD HARDWIRED ALARM SYSTEMS

- EXPANDABLE TO  
**64 ZONES**
- SUPPORTS UP TO  
**8 KEYPADS**
- CONTACT ID  
**SECURITY DIALLER**
- 25** PROGRAMMABLE  
**OUTPUTS**



#### 8 Zone Alarm Panel & LCD Keypad - Expandable to 64 Monitored Zones

Part No: WGAP864

The WGAP864 is a versatile, microprocessor-based, fully featured 8/64 Zone alarm panel, which has two partitions. The alarm panel provides immediate notification of burglary, fire, medical & panic conditions. There is a dedicated panic zone, monitored siren output, auxiliary power outputs and five (expandable to seven) programmable outputs that may be programmed to perform various trigger/switching functions.

#### WGAP864 Panel and Keypad Features:

- 64 Zones (Up to 16 On-board)
- 8 Partitions; 128 User Codes
- Supports Up to 8 keypads
- 25 Fully Programmable Outputs
- Ability to Log Up to 1000 Events
- 1.5A Available On-board Power (Dual PSU)
- Dedicated 500mA Battery Charger for Optimal Backup Battery Management
- Up to 4 Bus Receivers (Fully Programmable from the Keypad)
- IDS's Renowned One-button Arming
- Quick Arm Modes: Stay; Away and; Stay and Go
- 4 Stay Profiles (Quick-select Specific Stay Profiles via Keypad Shortcut): Stay, Night Stay, Day Stay, Perimeter
- Supports Star/Daisy Chain Modules up to 300m
- Dual and Split Reporting; Battery Self Test
- Dedicated Panic Zone
- Telephone Communicator
- Expanded Heat Sink
- Optional Tamper per Zone
- Separate Box Tamper Zone
- Maintenance Code
- No Activity Arming
- Recall Bypass Selected
- Auto Arm/Disarm per Partition
- User-enabled Chime and Buzz Zones
- Programmable Loop Response Time
- Excellent Protection Against Lightning ("Zap Tracking" and Transient Suppressors)



**CONTACT ID  
SECURITY DIALLER**

**EXPANDABLE TO  
64 ZONES**

**Professional 8 Zone Hardwired Alarm Kit - Expandable to 64 Zones**

**Part No: WGAP864PACK**

**For Complete Home and Commercial Building Protection**

If you're after complete commercial building protection, you need the WGAP864PACK hardwired alarm system. It contains a premiere Watchguard™ 8 Zone alarm panel, internal and external sirens, motion sensors, reed switches, back up battery and power supplies. These detectors and sirens help protect all areas of your building by monitoring rooms and offices for movement and detecting when door or windows are opened. This gives you greater peace of mind that your building is secure against thieves, burglars and vandals.

**WGAP864KIT Includes:**

- 1x 8 Zone Alarm Control Panel
- 1x LCD Keypad
- 1x Complete Outdoor Siren/Strobe
- 3x Dual Technology PIR Sensors
- 2x Surface Reed Switches
- 1x Indoor Top Hat Piezo Siren
- 1x 16VAC Power Supply
- 1x 7Ah Lead Acid Backup Battery

\* Note: expansion boards, central monitoring services, cabling and additional keypads are sold separately to this package. Please see the remainder of this catalogue for expansion modules and installation equipment.

**WGAP864 PANEL ACCESSORIES**



**Zone Expansion Modules for WGAP864**

**Part No: WGAP864EXP816 / WGAP864EXP1664**

Boards to expand WGAP864 beyond 8 zones. Each board expands 8 zones and each have 8 wired end-of-line supervised zone inputs.

- WGAP864EXP816 - expand to 16 zones using a single board.
- WGAP864EXP1664 - expand beyond 16 zones; 8 zones per board.

**Alarm Voice Panel Module for WGAP864**

**Part No: WGAP864VM**

To increase the remote accessibility of your WGAP864 alarm system, you can install the optional WGAP64VM phone adapter.

With this module you can inquire about the status of your alarm system via telephone, and make changes to security settings. The module can also be configured to send alarm notifications to your phone.



**Watchguard High Quality 64 Zone LCD Keypad for WGAP864**

**Part No: WGAP864KP**

The large LCD screen displays menus and messages to inform you of your alarm status/any changes you are making. All the alarm system programming is done via the LCD Keypad.

Programmable functions accessed through the keypad include auto-arming, away arming, zone bypassing and setting/changing/allocating user codes.

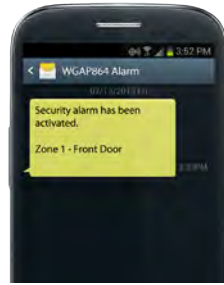


**USB Module for Programming WGAP864 Alarm Panel**

**Part No: WGAPCABLEUSB**

USB module and cable used to program the Watchguard WGAP864 alarm system via a Windows PC. Easily program the panel using a PC in less than 30 seconds.

WGAP864 PANEL WIRELESS ACCESSORIES



**SMS Module compatible with WGAP864**

**Part No: WGAP864WRX2**

WGAP864SMS is an easy to add on SMS module that enables users to have full user control of the WGAP864 8 Zone Alarm System from any mobile device that has the ability to send and receive SMS.

- Controls the WGAP864 Alarm System via any cell phone handset
- Receive SMS message from your WGAP864 Alarm System
- Arm and disarm with partition control
- Free apps available to download
- Wireless detector receive module (WGAP864WRX16) required

**2 Channel Receiver for WGAP864**

**Part No: WGAP864WRX2**

The Remote Receiver gives the WGAP864 users the convenience of pressing a Remote Transmitter button instead of going to the keypad; it gives each user the additional security of carrying their own panic button.

- 433.92 MHz RF receiver
- Up to 128 users
- Programmable from the keypad
- 2 relay outputs with 1A contacts



**16 Channel Wireless Receiver**

**Part No: WGAP864WRX16**

Expand the original WGAP864 8 zones Alarm Panel to wireless 16 zone by simply plugging it directly onto the main panel. Required for addition of wireless sensors to the WGAP864 alarm system.

**Wireless PIR Sensor**

**Part No: WGAP864WPIR**

- Pet friendly PIR Sensor
- Detection Range: 12m x 12m
- Viewing angle: 90°
- Wireless detector receive module (WGAP864WRX16) required

**Wireless Door Contact**

**Part No: WGAP864WDC**

- Wireless magnetic contacts
- 100m range line of site
- Alarm & low battery transmission
- Wireless detector receive module (WGAP864WRX16) required

HARDWIRED ALARM ACCESSORIES



**Fully Assembled AC/DC Siren, Strobe and Tamper Switch**

**Part No: COS**

- Suits All Alarm Control Panels
- No Assembly Required
- Highly Durable, Moisture & UV Resistant External Housing
- Includes Rear Protective Cover

**Compact External Siren with Strobe**

**Part No: W24SIREN**

European style 115dB external siren with integrated blue strobe light, piezo siren and tamper switch. The siren utilises a simple 2-wire connection and 12V power.

**Indoor Ultra Loud Piezo Siren**

**Part No: DPS**

Repel an intruder from your home by installing this high frequency, super loud siren.

- Connect to the Negative On Alarm output on your Alarm System
- Dimensions: 85 x 89 x 41mm





Model No: PIRLHLB

**Universal Movement Sensor with Dual Technology**

**Part No: PIRHWDT**

This advanced PIR body heat movement sensor is suitable for indoor use with any alarm control panel. It can detect movement up to 12 meters away at an angle of 90 degrees from the sensor. The detector features automatic temperature compensation to improve performance when the ambient heat level in a room changes.

- Detects Human Movement Up To 12m Away
- Auto Temperature Compensation Reducing False Alarm
- White Light Immunity Level Over 20,000 Lux
- LED ON/OFF Optional, Pulse Count Optional
- NC / NO Optional for Different Alarm Panels
- Auto Developed LEN Technology
- High EM and RF Interference Immunity



Model No: PIRLHLB

**Universal Movement Sensor with Triple Technology**

**Part No: PIRHWTT**

This advanced indoor movement sensor can be used with any alarm control panel and incorporates 3 detection technologies designed to prevent false alarms. It is particularly suited for use in harsh environments where using a standard PIR may result in false alarms caused by rapid changes in heat, light levels or from other environmental factors.

- Detects Human Movement Up To 12m Away
- High Quality Quad Element PIR Sensor
- Adjustable Microwave Sensor
- Auto Temperature Compensation
- Selectable N.O. or N.C. Alarm Outputs
- 3 Indicator LED's Green PIR, Yellow WAVE, Red ALARM
- Selectable Detection LED Indicator ON / OFF
- N.C. Case Tamper Switch



**360° Ceiling Mount PIR Detector**

**Part No: PIRHW360**

- Circular 360° PIR motion detection
- Four element imaging technology
- 3.15m detection range
- Automatic temperature compensation



**Flush Mounted Internal Siren**

**Part No: DPSF**

- Emits a High Frequency Oscillating Siren Intolerable to the Human Ear
- Low Profile Design to Mount Flush with Ceiling
- Repel Intruders from your Building



**Photoelectric Hardwired Smoke Detector**

**Part No: SMODET15P**

- Sensor Type: Infrared Photoelectric Diode
- Dust and Insect Proof
- Detection Range 20m<sup>2</sup>
- 12VDC



**Single Tone Siren**

**Part No: S42**

- 115dB Single Tone Siren
- Typically Used with Control Panels with No Internal Siren Driver
- Power: 12VDC



**Hard Wired Shock Sensor**

**Part No: SHOCKHW**

- Photo Electric Vibration Sensor
- Adjustable Sensitivity
- Microprocessor designed improved false alarm immunity
- Low current consumption

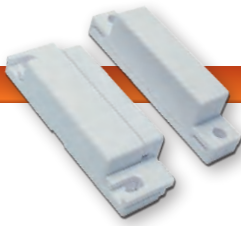


**Flashing Blue Strobe Light**

**Part No: DSBM**

- Low Profile Blue Strobe Light
- Designed for Use with External Sirens
- LED Strobe

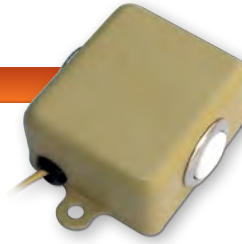
HARDWIRED ALARM ACCESSORIES



**Mini Surface Mount Reed Switch**

**Part No: DSRLW**

- Compact Design Surface Mount
- Industry Standard
- N/C Contacts
- Dimensions in Millimetres  
Reed - 63(W) x 12(H) x 20(D)  
Magnet - 63(W) x 12(H) x 11(D)



**Dual Button Emergency Switch (N/O Contact)**

**Part No: DEBSDUAL**

- Dual Button Activation Virtually Eliminates Accidental Triggering
- Push to Close Momentary Contact Type
- Pre-wired for Quick Installation
- Sturdy Metal Case with Silver-plated Contacts
- Rated 1Amp at 25VDC



**Large Surface Mount Reed Switch**

**Part No: DSRHDW**

- Surface Mounted Reed Switch
- Industry Standard
- N/C Contact with Solder Terminals
- Dimensions in Millimetres  
Reed: 90(W) x 13(H) x 12(D)  
Magnet: 90(W) x 13(H) x 12(D)

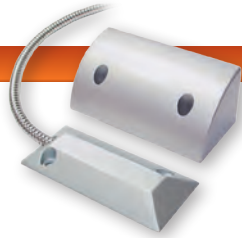


**High Impact Plastic External Siren Cover**

**Part No: DPSCY**

This External Siren Cover has been developed and designed as a replacement for old or damaged siren covers.

- Highly Durable
- Moisture and UV Resistant
- Designed in Australia



**Roller Shutter Reed Switch**

**Part No: DRSR**

- Strong Heavy Duty Cast Housing
- Termination Contacts via a Stainless Steel Flexible Conduit
- N/C Contacts



**N/C Tamper Switch for Siren Covers**

**Part No: DTBS**

- Open Type
- 1A / 125V
- For Siren Covers such as the DPSCY Which Do Not have a Tamper Switch



**Concealed Reed Switch**

**Part No: DCRW**

- Perfect for Mounting in the Tops of Doors or Hidden Areas
- Easy "Push-in" Installation
- Compact Design
- Dimensions: Ø11 x 32(D)mm
- Colour: White



**12V 15A Universal Switching Relay**

**Part No: REL01LOOM**

This is a 12V 15A Contact Rated Universal Switching Relay. The relay is contact closed when power is applied.



**Surface Reed Switch (N/O Contact)**

**Part No: DSRNONC**

High quality Magnetic Surface Reed switch which has Normally Closed/ Normally Open Contacts.



**On/Off Key Switch**

**Part No: 2POSSPST**

An On/Off key switch with 2 keys used for various applications. 2 positions, single pole, single throw changeover switch.

The Watchguard™ Digital Series is a true revolution in monitored back to base alarm systems. Utilising a compact main control unit with in-built communication dialer and advanced wireless component technology means installation is very simple. The wireless design allows you to expand or relocate any of the systems at anytime. They are truly 'plug & secure' systems, without any complicated programming or cabling. See how each system works below:

**1) An Alarm Event is Triggered**



When smoke, intruder or help signal is detected, an alarm signal will send to the communication dialer.

**2) Communication Dialer Transmits to Monitoring Centre**



When an alarm code is received from the Movement Sensor, Smoke Sensor or Panic Button, the communication dialer automatically connects to your monitoring centre via your phone line & transmits the detailed alarm activation data in (Contact ID Format).

**3) Monitoring Centre Acknowledges and Processes Event**



The communication dialer connects to your monitoring centre and they will notify security, police, fire or medical services when an emergency arises. Please contact your preferred monitoring service provider to discuss their individual monitoring service plans, notification method and charges.

**4) Personal Notification of Event by Monitoring Centre**



You will also receive notification of the alarm event: "Hello John. This is Sally from the monitoring centre. Your alarm system at 3 Main Street Springville has been activated at 11:14am by the smoke sensor in your master bedroom."



**Back to Base Intruder Detection System for Home & Office**

Part No: WGDIGITAL

The WGDIGITAL is a high-quality, anti-intruder professional grade monitored security system with passive infrared (PIR) motion sensors and remote controls. Once installed, simply use the remote control button to arm the system before you leave your premises.

**WGDIGITAL Includes:**

- 1 x Control Unit - Communication Dialer
- 2 x Wireless Movement Sensors - Designed to detect the body movement of an intruder inside your premises.
- 2x Code Hopping Remote Controls - Allows you to easily arm and disarm the system or activate the panic facility from virtually anywhere around your premises.
- 1 x Power Supply & 1 x Phone Connection Lead - Contact ID Protocol



**Back to Base Fire Detection System for Home & Office**

Part No: WGSMOKE

The WGSMOKE is a high-quality, monitored wireless fire detection system which is quick and easy to install and operate. When smoke is detected not only will the smoke sensor's in-built siren sound, but the alarm siren built into the main control unit will also sound in unison.

**WGSMOKE Includes:**

- 1 x Control Unit - Communication Dialer
- 2 x Wireless Smoke Sensors. AS/NZS 3786 (1993). Designed to detect the presence of smoke inside your premises using gas ionisation technology.
- In-built siren & low battery warning.
- 1 x Power Supply & 1 x Phone Connection Lead - Contact ID Protocol



**Back to Base Monitored Emergency Duress System**

Part No: WGEDS

The WGEDS is a system which in the case of emergency or duress is manually activated by pressing the wireless panic button to alert your monitoring centre. Up to 8 individual emergency buttons can be used with your Watchguard Emergency Duress System. Each button can be individually identified by the monitoring centre (i.e. Grandma's button)

**WGEDS Includes:**

- 1 x Control Unit - Communication Dialer
- 2 x Wireless Emergency Panic Buttons - Designed with the elderly or less-able bodied person in mind. Large rubber button. Nylon lanyard included.
- Splashproof. Dipswitch coding. Operating range up to 100m (line of sight)
- 1 x Power Supply & 1 x Phone Connection Lead - Contact ID Protocol



CONTROL ALARM  
VIA SMS MSG

REPORTS VIA  
SMS TEXT



**Watchguard SMS2010 Wireless Alarm System with 2-Way SMS Messaging**

Part No: WGSMS2010

The Watchguard SMS 2010 is a true revolution in monitored home & mobile security systems. Designed specifically for simple installation and maximum protection at an affordable price, the WGSMS2010 can be used across a range of applications, including caravans, boats, building sites or anywhere where a portable, self-monitored alarm is required.

Utilising the latest in GSM communication and wireless alarm technology, the Watchguard SMS 2010 communicates to your mobile via a GSM mobile phone network. A SIM Card enables 2-way communication via SMS text messaging between you and your alarm.

The WGSMS2010 is also easy to install. After mounting the movement detectors in the zones to be monitored and mounting the external siren in a prominent position, simply plug the alarm module into the power pack (or connect 12VDC), turn the power key to on and you are ready to go.

**WGSMS2010 Includes:**

- 1x 8 Zone Alarm Controller Unit with Built-in Quad Band GSM Modem
- 2x Wireless PIR Movement Sensors
- 2x 2 Button Code Hopping Remote Controls
- 1x 12VDC Power Supply for the Alarm Controller Unit
- 1x Compact External Siren with Strobe

\*SIM Card and mobile phone not included in package.

**How Does the WGSMS2010 Work?**



**1) Arming the Premises**

Use your Remote Control to arm the Watchguard Wireless Alarm System to secure your premises. The WGSMS2010 is ideal for home, office, marine and caravan/RV use.

When body movement is detected in the premises, the sensors will send a message to the alarm module.



**2) Alarm Event / Signal Sent to Module**

The alarm module or controller is the brain of the alarm system. When it receives the message from the Wireless Movement Sensors, it automatically sends your reported alarm to your designated mobile(s) as an SMS.

The internal siren will also sound, helping repel the intruder.



**3) Detailed Alarm Notification**

The alarm module communicates to your mobile phone via GSM. When triggered, the module sends a detailed SMS of the reported alarm to your designated mobile(s).

A voice message may also be sent to a landline telephone, where supported. Up to 5 people can be notified.



**Watchguard Wireless Home or Office Alarm System**

**Part No: WGUARD**

The Watchguard alarm is a complete stand-alone security system, which is ideal for the home or business owner wanting an affordable security system without a monitoring service. It is very reliable and extremely easy to install and operate. If the alarm is triggered, both the external and internal sirens will sound to repel intruders.

**WGUARD Includes:**

- Feature Packed 8 Zone Security System
- Can be Expanded using the Range of Watchguard Wireless Accessories
- 2x Quality Wireless Passive Infrared Detectors
- 2x High Security Code Hopping Remote Controls with Lithium Batteries

- Emergency Panic Function via Remote Control
- Backup Battery & Mains Power Adapter
- Powerful External Siren with Flashing Blue Strobe
- Similar Appearance to Security Industry Standard Alarm Systems
- High Frequency Internal Siren to Repel Intruders



**Watchguard Fire & Theft Complete Burglary & Fire Detection System for Home & Office**

**Part No: WGUARDFT**

The Watchguard Fire & Theft is a complete burglary and fire detection system suitable for your home or office. When the system detects the body movement of an intruder, or senses smoke inside your building, the alarm will activate both the internal siren as well as the external siren with flashing blue strobe. The system is very easy to use and install.

**WGUARDFT Includes:**

- Feature Packed Security System with Simple Wireless Installation
- 2x Wireless PIR Sensor / 2x Code Hopping Remote Controls
- 1x AS3786 Approved Wireless Gas Ionisation Smoke Sensor
- Can be Expanded using the Range of Watchguard Wireless Accessories

- High Frequency Internal Siren to Repel Intruders
- Emergency Panic Function via Remote
- Backup Battery & Mains Power Adapter
- Powerful External Siren with Flashing Blue Strobe



**Watchguard Basic Wireless Home Alarm System**

**Part No: WGSENTINEL**

This is an Entry Level Wireless Alarm System designed for use in a residential setting where the owner is wanting a basic security system without external monitoring. The kit can be installed in three easy steps: 1) Mount the siren in a suitable position & plug in power; 2) Mount wireless detector; 3) Press the remote to arm/disarm the system.

**WGSENTINEL Includes:**

- 2x Remote Controls to Arm/Disarm the Alarm and Panic Function
- 1x Wireless PIR Sensor to Detect Movement Up to 12m

- 1x Powerful Outdoor Siren/Strobe to Deter Intruders
- Can be Expanded using the Range of Watchguard Wireless Accessories

UNIVERSAL TRANSMITTERS & RECEIVERS



Suitable for Use in Following Applications:

With Home Security or Electric Gate/Garages

Most Devices that Allow Remote On/Off

Replace Old, Large & Low Security Remotes

Add Wireless Alarm Sensors to Any Device



4 Channel Multi-Function Receiver/Transmitter Set - 433.92MHz

Part No: RXPROR4

The RXPROR4 is an advanced multi-purpose 4-channel narrow-band UHF receiver / transmitter set with fully programmable relay outputs (1 amp rating). It is supplied as standard with 2 x code hopping, 4 button remote controls with long life lithium batteries. It can be used to add Watchguard wireless alarm accessories to virtually any alarm panel or device.

RXPROR4 Features:

- Up to 200m Radio Frequency Range (Line of Sight)
- All Outputs are Individually Programmable to Suit Almost Any Application (Momentary, Latched, Timed or Pulsed)
- Up to 5 High Security Code Hopping Remotes (Anti-scan, Anti-code Grabbing)

- Power Supply Requirement: 12VDC @ 500mA
- Compatible with Watchguard Wireless Alarm Detectors
- Supports Use of Up to 4 Wireless Detectors
- Supports Detector Low Battery, Supervision & Tamper Signal Outputs
- Step by Step Programming via Remote Control & Indication via Feature and Channel LEDs



Part No: RCX4



RCX4 Comes with 2x 4 Button Remote Controls

Suitable for Use in Following Applications:

Vehicle Central Locking Systems

Replace Old, Large & Low Security Remotes

With Home Security or Electric Gate/Garages



2 Channel Transmitter/Receiver Set - 433.92MHz

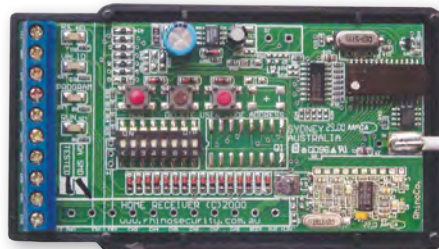
Part No: RCX / RCX4

This product is designed to be simple and easy to use. It has simple wiring connections and can be used in a variety of applications. Primarily, this product can be used to remote control your car, garage door, home alarm system, or your electric gate. The number of items to which you can interface is almost endless. Also available in 4 Channel Model (RCX4) with 2x 4 button code hopping remotes.

RCX / RCX4 Features:

- 1 Second (momentary) Negative Outputs for Each Channel
- Separate Latched Negative Output for Channel 1
- Flashing 12V LED Output for Channel 1 i.e.- Flashes when the Button is Pressed, Stops when Pressed Again

- 2x Dual Button Code Hopping Remotes - 100m RF Range (line of sight)
- Can Store Up to 15 Remote Controls in Total



Suitable for Use with these Wireless Accessories:

PIR Movement Sensors

Panic/Duress Buttons

Smoke Detectors

Magnetic Reed Switches



Universal Transmitter/Receiver Set for Alarm Control Panels - 433.92Mhz

Part No: KISSRX

This 8 Channel wireless narrow-band UHF 433.92MHz receiver / transmitter set will allow you to add remote on/off & panic functions to your alarm panel. It will also allow you to add up to 4 wireless sensors to your existing hardwired alarm panel. The unit is supplied with 2 x remote controls which have an operating range of approximately 100 metres (line of sight - subject to environmental conditions).

KISSRX Features:

- 1 Second (momentary) Negative Outputs for Each Channel
- Separate Latched Negative Output for Channel 1
- Flashing 12V LED Output for Channel 1 i.e.- Flashes when the Button is Pressed, Stops when Pressed Again

- 2x Dual Button Code Hopping Remotes - 100m RF Range (line of sight)
- Can Store Up to 15 Remote Controls in Total



**Wireless Supervised  
Passive Infrared Detector**

**Part No: PIRW3**

- Dual Edge™ PIR Sensor Technology
- 12m Detection Range
- Compact & Elegant Design
- Swivel Bracket for Easy Installation
- Intelligent Power Saving Mode
- Up to 3 Years Life from 1x CR2450 Lithium Battery
- Selectable Pulse Count



**Wireless Supervised Reed  
Switch/Universal Transmitter**

**Part No: WREEDI**

- Used on Doors and Windows
- Also Features In-built Terminals for Use as Universal Transmitter
- Up to 5 Years Life from 2x CR2450 Lithium Batteries



**Wireless Supervised Smoke  
Detector AS/NZS 3786:1993**

**Part No: SMODETW**

- Used on Doors and Windows
- Also Features In-built Terminals for Use as Universal Transmitter
- Up to 5 Years Life from 2x CR2450 Lithium Batteries



**Wireless Supervised PIR  
Detector (Outdoor)**

**Part No: PIRWOD**

- Sealed UV Resistant Outdoor Housing
- 4 Selectable Coverage Patterns:  
Wide Angle 10m / Curtain 10m /  
Long Range 20m / Vertical Curtain 3m
- 9V Alkaline Battery Provides Approx.  
1 Year Life
- Communicates Alarm, Low Battery  
& Supervision Signals
- Works with All Watchguard Universal  
Receivers & Alarms
- High Quality TAKEX Sensor
- Made in Japan



**Personal Emergency /  
Panic Pendant**

**Part No: WPANIC**

- Standards Compliant Panic Button
- Two Internal Switch Design
- Designed with the Elderly or Less-able  
Bodied Person in Mind
- Large Easy Push Rubber Button
- Nylon Lanyard Included Allows it to be  
Worn Safely Around the Neck
- Dip-switch Coding
- Splash-proof Construction



**Wireless External Siren**

**Part No: WSIREN**

- Wireless External Siren with Flashing  
Blue Strobe and Backup Battery
- 10m of Cabling Pre-terminated for  
'Plug & Secure' Installation
- Includes Low Voltage Plug-pack
- Sends Tamper, Low battery &  
Supervision Signals

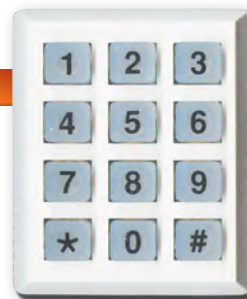


**Wireless Solar Siren and  
Optional Universal Transmitter**

**Part No: WSSOL**

- No Cables Required
- In-built Solar Panel to Charge Battery
- 40 Days of Continuous Operation  
Without Sunlight Once Charged
- Incorporates Powerful 105dB/M Siren  
and Blue Strobe Light
- High Capacity 6V 1.2Ah Sealed Acid  
Rechargeable Internal Battery
- Tough Polycarbonate Housing
- In-built Tamper Switch to Activate  
Siren in Case of Unauthorised Removal
- Polycarbonate Weatherproof Housing
- Can be Fitted with Universal  
Transmitter WSUTX (left) to be  
Compatible with Any Wireless Panel
- WSUTX Simply Connects to Siren  
Output on your Control Panel

**Model:  
WSUTX**



**White Wireless Mini  
Numeric Keypad**

**Part No: WKP**

- Allows Arm/Disarm, Home Mode &  
Panic Functions
- Backlit Rubber Buttons
- Only 45 x 55 mm
- Code Hopping Technology
- Wall Mount or Portable
- Selectable 4 Digit PIN Number



**Large Wireless  
Numeric Keypad**

**Part No: WKPL**

- Large Conventional Size Wall Mount  
Keypad with Flip-down Front Cover
- Allows Arm/Disarm of your System  
via User 4-Digit PIN Code
- 9V Battery Powered
- Low Battery Indicator
- Back Lit Keypad for Night Use
- Weather Resistant for Indoor or  
Outdoor Use (Under cover)
- For Use on WGDIGITAL Only



**Wireless Emergency Duress  
Mushroom Button**

**Part No: MBTX**

- Large Industrial Grade Switch
- In-built fixed code transmitter
- LED indicators for Activation and  
Low Battery
- Optional External Power Supply



**Outdoor Replica CCTV Camera with Housing**

**Part No: VSCD420F**

- Replica CCTV Camera with Weatherproof Housing & Warning Stickers
- Includes Red Flashing LED (Requires 2x AA Batteries)
- Tilt/Swivel Bracket / All Installation Materials Included
- Comes in Professional Retail Packaging



**Indoor Replica CCTV Dome Camera**

**Part No: VSCDDF**

- Replica Dome Camera with High Visibility Warning Stickers
- Includes Red Flashing LED (Requires 2x AAA Batteries)
- Packaged with All Installation Materials
- Comes in Professional Retail Packaging



**Indoor/Outdoor Replica Infrared CCTV Camera**

**Part No: VSCD50F**

- Replica Weatherproof Bullet Camera with Warning Stickers
- Includes Red Flashing LED (Requires 2x AA Batteries)
- Tilt/Swivel Bracket / All Installation Materials Included
- Comes in Professional Retail Packaging



**Indoor Replica CCTV Camera**

**Part No: VSCDFF**

- Replica Full Body Camera with High Visibility Warning Stickers
- Includes Red Flashing LED (Requires 2x AAA Batteries)
- Packaged with All Installation Materials
- Comes in Professional Retail Packaging



**Replica Home Alarm Kit**

**Part No: DUMMYHA**

- Simple Installation Imitation Home Alarm Kit
- Realistic Appearance Outdoor Siren/Strobe Deters Criminals
- Includes UV-Resistant Warning Labels and Installation Materials
- Comes in Professional Retail Packaging





## STAND ALONE WATCHGUARD SECURITY PRODUCTS

### ULTRA LOUD SIREN 110 DECIBEL



#### 110dB Siren Alarm Padlock

Part No: WGALPAD



When armed, the Watchguard Security Alarm Padlock emits an ultra-loud ear-piercing sound upon detecting movement or shock. This increases the chances of scaring away thieves and protecting your valuables.

The padlock features a 110db internal siren which sounds if the lock is moved, touched or knocked after it has been armed. The padlock has been manufactured to the highest standards, with a stainless steel shackle and hardened zinc alloy body. The body of the padlock has been powder-coated providing extra corrosion, water and weather resistance.

The versatility of the padlock make it suitable for use in any number of applications, including garden sheds, gates, garages, lock-boxes, bikes, toolboxes, trailers, caravans, lawn mowers and garden machinery.



#### 12 Megapixel Hunting Camera

Part No: VSHUNTINGCAMV2



The VSHUNTINGCAMV2 is a hunting, game or trail camera designed to be a scouting device. The camera features an array of different methods for detecting and viewing your subject. The camera is triggered by the passive infrared sensors that detect sudden changes in ambient temperature caused by moving wildlife/game. The camera then automatically takes pictures or records video clips. You can review images / videos with the in-built 2.5" TFT color display.

The unique design of the VSHUNTINGCAMV2 allows you to strap it to a tree for optimum positioning whilst the camouflaged case allows for discreet operation. The unit comes with a magnet key to activate a laser that assists in focusing the camera. **Batteries and SDHC memory card not included.**

- 12 Megapixel Camera
- Built-in 2.5" TFT color display
- 3000 x 4000px Picture Resolution
- 720p Video Resolution
- up to 8 months standby time (with 8x AA batteries)

- SDHC storage (up to 32GB)
- TV jack and mini-USB outputs
- Date and time-stamping features, time-lapse control and password protection



#### Stand Alone Photoelectric Smoke Alarm

Part No: WG1SMKP

- Sensor Triggers on detecting visible smoke using light sensor and LED.
- Built-in Test Button and Battery Missing Indicator
- Extra Loud Alarm (Sound over 85dB)

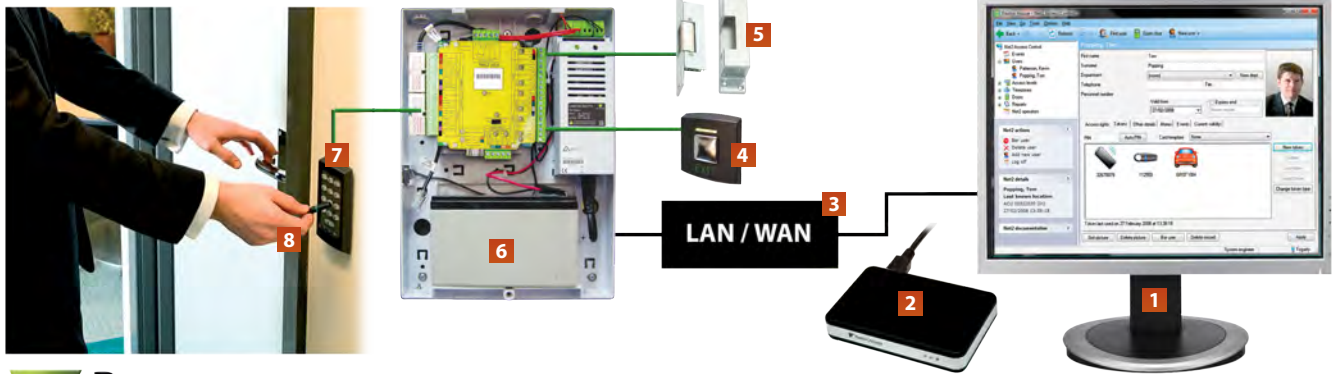


#### 4 Pack A4 Alarm Warning Stickers

Part No: VSCDSA

- Contains 4x A4 Sized Alarm Warning Stickers
- 2x Rear Adhesive for Flat Surface Use
- 2x Front Adhesive for Interior Window Use

PAXTON NET2 ACCESS CONTROL SYSTEMS



**Paxton Net2 Plus Single Door Networkable Access Control Unit (Wired)**

**Part No: PXT682531**

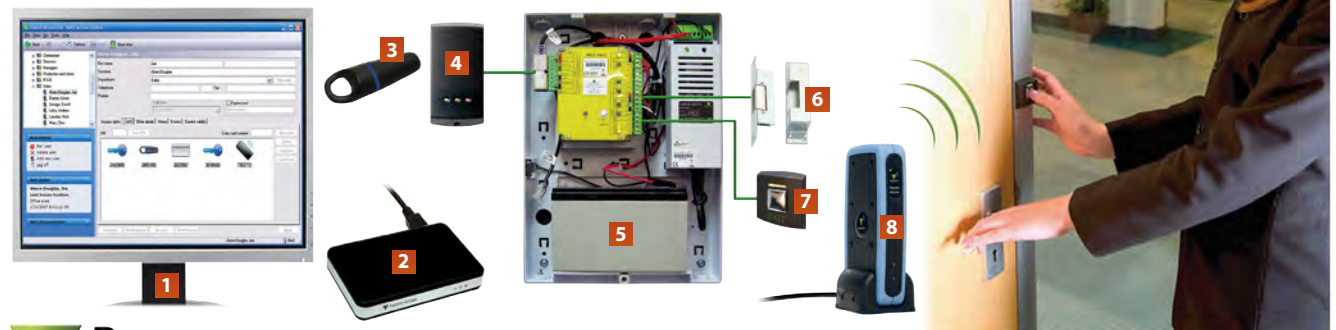
The Paxton Net2 is an advanced PC based access control system. It has easy to use, intuitive software which allows users to be added quickly to the system. The system can generate access reports at the click of a button. The door control units are networked and have been designed to be simple to install and configure. **Can also be configured to interface with the WGAP864 panel.**

The Net2 Plus control unit connects to the central administration PC using an RJ45 plug into a standard TCP/IP Ethernet network. This greatly increases the flexibility of installation options on sites that have LAN/WAN networks. The Net2 Plus control unit also has a RS485 connection. This means it can be connected to other Net2 plus control units using a dedicated CAT5 cable.

One Net2 Plus control unit can be the network interface to the LAN and also run a wired RS485 daisy chain of other Net2 plus units, removing the need for an independent TCP/IP to RS485 converter. **\*Battery not included.**

- 1. Computer
- 2. Keyfob/Card Programmer
- 3. LAN/WAN Connection
- 4. Exit Button E38
- 5. Electric Door Latch Release
- 6. Net2 Plus Cabinet with 2A PSU
- 7. Proximity Keypad KP75
- 8. Proximity Keyfob

Specifications: PXT682531	
Number of Cards / PINs	50,000
Number of Time Zones	64
Number of Access Levels	250
Maximum Door Open Time (sec)	1~99,999
Doors Per Access Control Unit	1
Readers / Keypad Per Port	2
Access Control Unit Per Data Line	200
Data Lines Per PC	100
Data Retention After Power Loss	Minimum 28 Days
Events Storage Capacity With Server Loss	2,454
Ethernet Network Speed	10~100 Mbps
Ethernet Bandwidth Requirement	200 Kbps
RS485 Network Speed	115.2 Kbps
Voltage	15V DC
Operating Temperature	0°C ~ +55°C



**Paxton Net2 Nano Wireless Encrypted Access Control Unit (Wireless)**

**Part No: PXT654549**

An easy to install access control unit using secure wireless communications - the Net2 Nano is a PC based security system for controlling door access. Net2 Nano also allows for access to be granted only at specific times. This networked system allows for all administration to be performed from a central point.

The Net2 Nano communicates with Net2 software at a central point by a secure, low power radio link. This means that no cable is required to communicate between doors. This makes the Net2 Nano's installation far more cost effective and less disruptive. In addition, Net2 Nano benefits from unique ease of installation and configuration - no networking knowledge required. **\*Battery not included.**

- 1. Computer
- 2. Keyfob/Card Programmer
- 3. Proximity Keyfob
- 4. Proximity Reader P50
- 5. Net2 Nano Cabinet with 2A PSU
- 6. Electric Door Latch Release
- 7. Exit Button E38
- 8. Net2Air USB Bridge

Specifications: PXT654549	
Total Number of Users	10,000
Total Number of Doors	Max. 200
Doors Per Access Control Unit (ACU)	1
Maximum ACUs Per Bridge	10 (Recommended)
Number of Tokens / PINs	10,000
Number of Time Zones	64
Number of Time Slots	2,000
Number of Access Levels	250
Stored Events Per ACU	4,096
Data Retention After Power Loss	60 Days
Hands Free Compatibility	Yes (Req. Interface)
Maximum Door Open Time (sec)	1 ~ 999,999
Reader Ports Per ACU	1
Ethernet Bandwidth Requirement	100 Kbps
Total ACU Reader Port Output Current	500mA
Operating Temperature	0°C ~ +55°C

## PAXTON NET2 ACCESS CONTROL ACCESSORIES



### Proximity P50 Reader

**Part No: PXT353110**

- IPX7 - Suitable for External Use
- Up to 10,000 Users on 1 Site
- 50W x 100H x 15D mm



### Energy Saving Reader

**Part No: PXT595248**

- Electrical equipment is only switched on when an authorised user card is inserted and retained.



### Proximity P200 Reader

**Part No: PXT324110**

- IPX7 - Suitable for External Use
- Up to 10,000 Users on 1 Site
- Metal Mount
- 200W x 200H x 15D mm



### Proximity Vandal Proof Reader

**Part No: PXT568855**

- IPX7 - Suitable for External Use
- Buried in Wall or Door Frame
- Use in Vandal Prone Areas
- 30W x 60H x 48D mm



### Long Range Reader

**Part No: PXT313110**

- Max. Range: 5m (w/ Handsfree Token)
- Ideal for Car Park Access Points
- Bright LED Visible in Sunlight



### Proximity Metal Reader

**Part No: PXT390747**

- IPX7 - Suitable for External Use
- Supplied Security Screws & Key
- Suitable for Mounting on Metal
- 76W x 76H x 27D mm



### Proximity KP75 Keypad

**Part No: PXT375110**

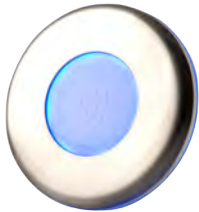
- IPX7 - Suitable for External Use
- Keypad & Proximity Reader All in One
- Read Range up to 100mm with Proximity Cards



### Proximity Panel Mount Reader

**Part No: PXT390135**

- IPX7 - Suitable for External Use
- For Use in Audio/Video Entry Panels
- 58W x 58H x 17D mm



### Proximity Marine Reader

**Part No: PXT500010**

- IPX7 - Suitable for External
- Marine Grade Stainless Steel
- High Visibility Blue Backlight
- Ø106mm



### E50 & Marine Exit Buttons

**Part No: PXT593721**

- PXT356310 (right) Exit Button
- Marine Button (left)
- Constant Green LED; Flashes When Door is Unlocked



### Net2 Proximity Keyfobs

**Part No: PXT695644**

- Comes in Box of 10 pcs
- Programmed with an 8 Digit Unique Number
- 14W x 40H mm



### Hands-Free Keypad/Keyfob

**Part No: PXT690333**

- PXT690222 (Keyfob)
- Up to 5m Read Range
- Ideal for Gates/Barriers/Loading Doors & Disable/Elderly Access



### ISO Cards Pack of 10

**Part No: PXT692500**

- No Magstripe or Sign Panel
- Envelope size: 120 x 73mm
- Card Size: 86 x 55mm



### Hands Free Interface

**Part No: PXT477222**

- Convert New/Existing Readers or Keypads to Hands Free
- Greatly Increases Read Range
- In Plastic Housing



### Desktop Reader USB

**Part No: PXT514326**

- Sits Next to PC / Adds Tokens
- Can Identify Lost Tokens
- Works Simply Via USB



### Net2 USB/RS485 Converter

**Part No: PXT455482**

- Connects the PC Comport (RS232) to the Net2 Dataline (RS485)
- Suitable for Wall Mounting
- In Plastic Housing



### Reader Connectors

**Part No: Below - Left to Right**

#### RJ45 Reader Port Connector Pack of 5 (PXT325030)

- Remove Screw Terminal Block from the ACU Reader Port and Replace Reader Junction Box (PXT325020)



### Paxton Net2Air Range

**Part No: Below - Left to Right**

#### Net2Air Ethernet Bridge (PXT477384)

- Plugs into Existing LAN/WAN

#### Net2Air USB Bridge (PXT477268)

- Wireless Comm. for PC & Net2 Nano

#### Net2Air Site Surveyor (PTX690200)

- Checks for Signal Strength



The Permaconn range of GSM and Ethernet alarm communicators are renowned for their reliability and ease of installation. They implement the use of dual SIMs for redundancy and feature an audited uptime of 99.9% as per Australian standards. They are an ideal upgrade or replacement for traditional PSTN diallers.



**IP Only Alarm Communicator**

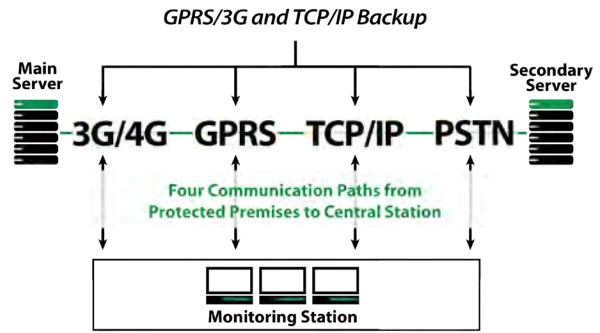
**Part No: PM35**

This unit can interface with a range of alarm panels using Contact ID. Alarm messages are sent using the clients ISP and are received by any Central Station that has the Permaconn solution installed.

**PM35 Features:**

- Remote alarm panel Upload/Download available using IP
- Plug & Play IP alarm communicator
- 1 input & 1 output, function control using Atlas and/or Pocket Secure
- Compatible with NBN and Naked DSL services
- Interfaces with any Contact ID alarm panel

Specifications: PM35	
Housing Material	White ABS Plastic
Dimensions (HxDxW)	110 x 25 x 80mm
Weight	0.09kg
Operating Environment	0°- 50°C @15% to 85% humidity (non-condensing)
Power	8 - 15V DC. Terminal or plug pack socket available. Plug pack must have approval
Power Consumption	0.15A @13.8V DC
Communication Protocol	Ethernet (10/100BASE-T)
Network Protocol	DHCP or Static IP
Serial Port	High Speed RS232 interface
Auxiliary Input	1 x 24Hr input - state change detected every second. EOL 3.3K
Auxiliary Output	1 x Open collector output @50mA (max) Function control using Atlas web portal and/or 'Pocket Secure'
Static IP Network Config	Ethernet interface using IpSetup program



**3G, GPRS and IP Alarm Communicator**

**Part No: PM45**

The PM45 is a versatile alarm communicators that report on GPRS and IP to the Central Station. These communicators can interface with a range of alarm panels using Contact ID. Primary alarm path is IP, followed by GPRS in the event of a wired Ethernet failure. If no IP connection exists, the communicators will report on GPRS only.

**PM45 Features:**

- Remote alarm panel Upload/Download available using GPRS/IP
- Dual SIM & IP alarm communicator
- Plug & Play solution
- Interfaces with any Contact ID alarm panel
- 1 input & 1 output, function control using Atlas and/or Pocket Secure
- Low cost hardware solution for NBN or Naked DSL services

Specifications: PM45	
Housing Material	White ABS Plastic
Dimensions (HxDxW)	110 x 25 x 80mm
Weight	0.12kg
Operating Environment	0°- 50°C @15% to 85% humidity (non-condensing)
Antenna Modem	Triple band 3G & Dual band GPRS Cinterion MC-37 or MC-55
Power	8 - 15V DC. Terminal or plug pack socket available. Plug pack must have approval
Power Consumption	Standby: 0.08A @13.8V DC Transmitting: 0.19A @13.8V DC
Communication Protocol	Ethernet (10/100BASE-T)
Network Protocol	DHCP or Static IP
Serial Port	High Speed RS232 interface
Auxiliary Input	1 x 24Hr input - state change detected every second. EOL 3.3K
Auxiliary Output	1 x Open Collector output @ 50mA (max) Function control using Atlas web portal and/or 'Pocket Secure'
Static IP Network Config	Ethernet interface using IpSetup program Atlas web portal using GPRS

# VEHICLE SECURITY

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**Rhino**<sup>®</sup>  
Vehicle Security

  
**RhinoTracks**

## The RAV3 Series: The Ultimate in Car Security

**Three Point Automatic Immobiliser:** For maximum security fuel pump, ignition system and starter motor immobiliser cuts (where possible) are made so the car cannot be started unless it is disarmed via the remote. The system will immobilise 40 seconds after the ignition is turned off or when the alarm is armed.

**Intelligent Glass Break Sensor:** Detects the sound frequency of breaking glass. It will only trigger the alarm if the shock sensor also picks up an impact. This reduces false alarms.

**Intelligent Dual Stage Shock Sensor:** It gives a warning on a light impact and a full alarm on a heavy impact to the vehicle. It can distinguish between environmental shocks such as trucks or aircraft and a thief attempting to break in. It will auto adjust its sensitivity for the environment on arming.

**Data Battery Backup Siren:** A self powered siren that communicates independently with the alarm so it cannot be fooled into turning off like normal battery back-up sirens.

**Door, Bonnet and Boot Protection & Central Locking:** If the alarm is armed and a door, bonnet or boot is opened the alarm will sound. The alarm will lock/unlock the doors when the alarm is armed/disarmed.

**Compatibility:** The RAV3 and RAV3-PNG is compatible with all Rhino car alarm accessories and sensors. Each unit has a four year warranty and is also available in a 24V version.

**Turbo Timer Functions:** Specifically to work with turbo vehicles. It has two turbo timer options to choose from. On-board turbo timer – no need to fit an external unit - using the on-board turbo timer is the most secure way to have a turbo timer. The alarm is armed as usual but the car will continue to run for the preset run time of 1, 2 or 4 minutes. If the alarm is triggered during this time the car will shut down and the alarm will sound. It can also be turned off prior to the preset run time via the remote.

**Turbo Timer Interface:** Link the alarm up with your existing external turbo timer so your car will continue to run on the external turbo timer after the alarm is armed as usual. If the alarm is triggered during this time the car will shut down and the alarm will sound.

**Control the Alarm with your Vehicle's Factory Key:** If your vehicle has a factory key that locks/unlocks the doors your RAV3 alarm may be able to interface with it so the alarm arms/disarms at the same time. Boot release will also work from the factory key (and if the alarm is armed it will disarm). This feature will work with most factory keys.

**Special Courier Functions:** Courier function allows the engine to continue running indefinitely while the system is armed. If the alarm is triggered during this time the car will shut down and the alarm will sound.

**Two Rolling Code 4 Button Waterproof Remotes:** If you are not using your vehicle's factory key to operate the alarm.



### Rhino

**Australian Standards Approved Car Alarm & Upgrade in One Incl. 3 Point Engine Immobiliser and Glass Break Sensor**

**Part No: RAV3**

The Rhino RAV3 is one of our top quality Australian Standards Approved car alarm. It has been engineered to the highest specifications to give you the ultimate in car security. The main features which have been developed and incorporated into the RAV3 include:

#### RAV3 Features:

- Three Point Automatic Immobiliser
- Intelligent Glass Break Sensor
- Intelligent Dual Stage Shock Sensor
- Coded Battery Back-Up Siren
- Door, Bonnet and Boot Protection
- Integrated Central Locking Relays
- Turbo Timer Functions
- Alarm Control via Vehicle Factory Key
- Special Features for Courier Drivers

#### RAV3 Includes:

- 1x ASA 3-Point Engine Immobiliser
- 2x 4 Button Waterproof Rolling Code Remote Controls
- 1x Mini Coded Backup Battery Siren
- 1x Glass Break Sensor



## Rhino

### Anti-Hijack Car Alarm & Upgrade in One Incl. 3 Point Engine Immobiliser and Glass Break Sensor

**Part No: RAV3-PNG**

The Rhino RAV3-PNG has all of the features of the standard RAV3 with added ability to detect a carjacking event and immobilise the vehicle.

#### RAV3-PNG Features:

- Three Point Automatic Immobiliser
- Intelligent Glass Break Sensor
- Intelligent Dual Stage Shock Sensor
- Coded Battery Back-Up Siren
- Door, Bonnet and Boot Protection
- Integrated Central Locking Relays
- Turbo Timer Functions
- Alarm Control via Vehicle Factory Key
- Special Features for Courier Drivers
- Anti-Hijack Features to Prevent Carjacking

#### RAV3-PNG Includes:

- 1x ASA 3-Point Engine Immobiliser
- 2x 4 Button Waterproof Rolling Code Remote Controls
- 1x Mini Coded Backup Battery Siren
- 1x Glass Break Sensor
- 1x Push Up Button



## Rhino

### 12V Backup Battery Car Alarm with 2 Point Immobiliser

**Part No: GTS**

The Rhino GTS is a highly featured mid-level car alarm and engine immobiliser. It features code hopping remote technology, a full size backup battery siren and numerous programmable features. The two onboard engine immobilisation relays can be used to cut both your starter motor and fuel pump. **24V Version Available (GTS24V) - Siren is non-battery backup.**

#### GTS Features:

- 2 Point Engine Immobilisation (on board relays)
- Protects Doors, Boot and Bonnet
- Central Locking Relay Outputs for Keyless Entry
- Backup Battery Siren
- 2 x Code Hopping Remote Controls
- 2 Stage Car Body Impact Sensor

## UPGRADE CAR ALARM SYSTEMS



## Rhino

### Upgrade Car Alarm & Immobiliser with Wireless Keypad

**Part No: RAKP**

With the RAKP, even if your car keys are stolen, the RAKP can not be disarmed without entering your chosen PIN number. The Rhino RAKP is a variant of the RA Model and is designed primarily for use in modern high theft-risk vehicles with factory remote controls. The inclusion of our special wireless keypad prevents anyone from being able to disarm the alarm and start the vehicle unless they enter the chosen 4 digit PIN number within 20 seconds of opening one of the car doors.

#### RAKP Features:

- 1x 3 Point Auto Immobiliser: 3 On-Board Circuits  
Auto-Activate 38 Seconds After Ignition Off
- Programmable Auto Arming Alarm
- Manual Arming: Arm via Keypad PIN Only
- The Wireless Keypad uses Long Life Lithium Batteries and has Backlit Keys for Night Time Use



## Rhino

### Transformer Upgrade Alarm System For Vehicles with Factory Keyless Entry

#### Part No: TRANS

If your vehicle is fitted with a factory remote keyless entry system, and you would prefer not to have a second remote control on your keyring (because your ignition key is part of the factory remote control), then the Rhino Transformer is your system of choice.

Whenever you lock and unlock your vehicle with the factory remote, your Transformer alarm will arm/disarm in turn. The Transformer is simply a variant of the RAV3 system with identical features - except there is no need for remotes. The connection of engine immobilisation circuits (up to 3) in addition to the factory immobiliser is optional, but at least 2 must be connected to meet Australian Standards requirements.

#### TRANS Features:

- Australian Standards Approved AS/NZ 3749.1 2003
- Three Point Engine Immobilisation (onboard relays)
- All Points of Entry Protection (Doors, Boot, Bonnet)
- 2 Stage Pre-alert Car Body Impact Sensor with ETS
- All Black Wiring Harness
- Alarm Memory (Allows Recall of the 10 Most Recent Alarm Activations in Order)
- Visual Arming and Disarming via Indicators (optional)
- Audio Discriminating Glass Break Sensor
- Backup Battery Siren



## Rhino

### Transformer SMS Add-On SMS Paging System For Vehicles with an Existing Alarm

#### Part No: TSMS

The 'Transformer SMS' adds state-of-the-art 2 way GSM mobile phone communication to your existing factory or after-market car alarm system. If you intend to rely on the existing alarm system fitted in your vehicle, this product enables you to be notified on your mobile phone if the alarm is activated. You can also connect to your existing central locking to allow you to unlock your car from your mobile in case you ever lock your keys in your car.

#### TSMS Features:

- Notification of Factory Alarm Activation via SMS Text Message
- Receive SMS Alerts when Your Car Battery is Low
- Up to 5 people can be Notified Upon Alarm Activation
- Failure to Respond to an SMS Alert Causes the System to Ring the Primary User to Gain Maximum Attention
- 3 Independent Negative Outputs can be Controlled via SMS Message
- These may be Used for Remote Arming or Other Functions such as Opening Electric Gates, Remote Immobilisation, etc.
- SMS Controlled Central Locking Outputs
- GSM SIM Card Required





## Rhino

### Remote Keyless Entry & Basic Immobiliser System

**Part No: RCXI**

This product can be used to remote control your existing car central locking and electronic boot release. It has indicator flash outputs and includes a single engine immobilisation circuit. The RCXI can also be used for remote controlling your garage door, home alarm system, or your electric gate.

#### RAKP Features:

- Adds Remote Control Functions to Existing Key-operated Central Locking
- 2x 2 Button Remote with Code Hopping technology
- Operating Range of Approximately 80 Metres
- Ultra Compact Module: Dimensions (mm): 60(W) x 30(D) x 13(H)
- 1 Second (Momentary) Negative Central Locking Outputs For Each Channel
- Electric boot release output
- Optional Connection to Flashing LED, Engine Immobilisation Relay & Indicators



## Rhino

### Australian Standards Approved Remote Control 2 Point Engine Immobiliser

**Part No: RES4601V2**

The Rhino RES Engine Immobiliser is an Australian Standards Approved System and features passive arming, all black wiring and 2 engine immobilisation circuits. It also has a negative on alarm output on door and ignition activation to allow an optional siren to be connected for basic alarm function.

#### RES4601V2 Features:

- Australian Standards Approved AS/NZ 3749.1 2003
- 2 Point Engine Immobilisation (onboard relays)
- 2x 2 Button Remote with Code Hopping Technology
- Auto Immobilisation (Passive Arming)
- Visual Arming and Disarming Confirmation via Blinkers
- Negative Pulse Central Locking Outputs
- All Black Wiring Harness
- Insurance Approved



## Rhino

### Australian Standards Approved 12V Remote Control 3 Point Engine Immobiliser

**Part No: JAGV3**

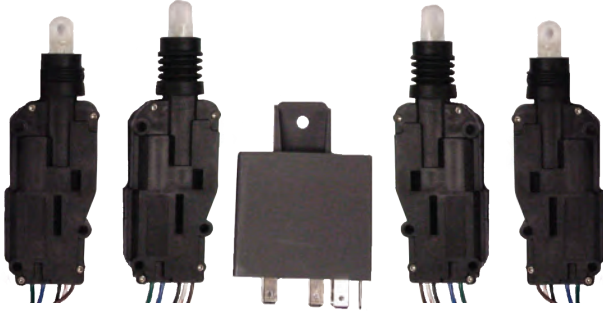
The Rhino JAG is our top-of-the-range Engine Immobiliser and it's recommended for all high theft-risk vehicles. It is approved to the latest Australian Standard and features 3 onboard engine immobilisation relays plus all black wiring. The additional option of utilising the Rhino wireless keypad means maximum protection for your vehicle. **24V Version Available (Model: JAG24V)**

#### JAGV3 Features:

- Australian Standards Approved: AS / NZS 4601:1999 / amdt 1:2003
- Insurance Approved Including Specialist Insurers
- Three Point Engine Immobilisation (On-board Relays)
- 2x 4 Button Remotes with Code Hopping Technology
- Auto Immobilisation (Passive Arming)
- On-board Central Locking Relay Outputs
- Optional Wireless Keypad Compatible
- Numerous Programmable Features Including Ability to Upgrade to Full Alarm system

VEHICLE SECURITY EQUIPMENT & ACCESSORIES

CENTRAL LOCKING KITS



Heavy Duty Central Locking Kits

- Part No: CLKHD (4 Door Locking Kit)
- CLKHD2D (2 Door Locking Kit)
- CLKHD24V (24V 4 Door Locking Kit)

Add security and convenience to your car that is not already fitted with central locking. Can be key operated or connected to any car alarm or immobiliser with central locking outputs for remote keyless entry.

This high quality door central locking kit is ideal for use in both modern and older vehicles which require high torque motors for activating stiff door locking mechanisms.

CLKHD Range Includes:

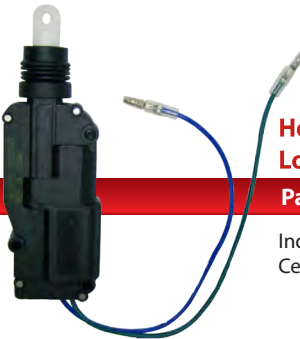
- 1x Control Module with Negative Lock / Unlock Pulse Inputs
- 2x 5 Wire Master Actuator / Door Lock Motors
- 2x 2 Wire Slave Actuator / Door Lock Motors
- Full Wiring Harness & Motor Mounting Hardware



Heavy Duty 5 Wire Central Locking Master Motor

Part No: DLHD101

Individual Central Locking 5-Wire Master Drive Motor



Heavy Duty 2 Wire Central Locking Slave Motor

Part No: DLHD102

Individual Heavy Duty 2-Wire Slave Central Locking Motor



Cable Lock Adapter for Central Locking Kits

Part No: CLKHDCABLE



Use this adapter kit for vehicles fitting with cable-type lock actuators.

VEHICLE SIRENS



Black Cabin Piezo Siren

Part No: DPS

Repel an intruder from the cabin of your vehicle by installing this high frequency, super loud siren under the dash.

- Connect to the Negative on Alarm Output on your Alarm System
- Dimensions: 85W x 89D x 41Hmm



Coded Backup Battery Siren

Part No: BBSCV3

For use with Rhino RAV3 & JAG only. These systems utilise a special data code signal to switch siren on and off.

- All Black Wiring
- Australian Standards Approved
- Power: 12VDC
- Dimensions: 105W x 110D x 80H (mm)



Mini Coded Backup Battery Siren

Part No: MINIBBSCV3

For use with Rhino RAV3 & JAG only. These systems utilise a special data code signal to switch siren on and off.

- All Black Wiring
- Australian Standards Approved
- Power: 12VDC
- Dimensions: 55W x 65D x 72H (mm)



Universal Backup Battery Siren

Part No: SBB

Universal replacement siren for most brands of car alarm. Used in Rhino GTS.

- Colour Wiring Harness
- Negative & Positive Trigger Inputs
- Override Keyswitch
- Dimensions: 105W x 110D x 80H (mm)



Universal Mini Backup Battery Siren

Part No: MINISBB

Universal replacement siren for most brands of car alarm. Used in Rhino GTR and RSA Car Alarms.

- Colour Wiring Harness
- Negative & Positive Trigger Inputs
- Override Keyswitch
- Dimensions: 55W x 65D x 72H (mm)



Single Tone Siren

Part No: S42 / S4224V

- Single tone siren.
- 12VDC and 24VDC Models
- 115dB Single Tone Siren



**Ultrasonic Body Movement Sensor**

**Part No: UD6**

For detecting body movement inside the cabin of a hardtop vehicle. Easy to connect to most alarms via negative output trigger wire.

- Ultra Compact Sensors
- Frequency: 40 kHz Crystal Locked
- Adjustable Sensitivity
- Power: 12V DC



**Flush-Mount LED Flashing Light**

**Part No: FL5**

Ultra bright flush-mount red flashing LED light for 'alarm armed' indication.

- Power: 12V DC
- Dimensions: Ø5 mm



**3 Dimension Digital Tilt Sensor**

**Part No: TILTSENSE2**

Designed to help protect your wheels and detect tow away. Detects if your vehicle is tilted by more than a couple of degrees.

- Unaffected by Parking on Slope
- Saves Angle Position on Arming Vehicle
- XYZ Movement Sensing Technology



**Automatic Electric Window Lifter**

**Part No: GLU400**

Automatically closes two power windows when your alarm is armed. 2 units are required for a 4 door vehicle.

- Dimensions: 70W x 115D x 27H (mm)



**Dual Zone Microwave Detector**

**Part No: MDDZ**

Used to give a warning to anyone coming too close to your vehicle & to trigger the alarm if there is movement inside the cabin. Can be hidden behind non-metallic surfaces.

- Compatible with Most Alarms
- Tri-colour Test LED
- Negative Trigger Output Wires
- Detects Perimeter Approach and Internal Movement
- Dimensions: 83W x 80D x 20H (mm)



**2 Stage Vehicle Impact Sensor**

**Part No: SHOCK2S**

Designed to detect any shocks or impacts to your vehicle. The 2 stage system provides a warning alert if a light impact is detected, and outputs to the alarm if a heavy impact is registered.

- 2 Stage for More Accurate Detection
- Pre-wired Female Plug
- Adjustable Sensitivity & LED Test Indicator



**Electric Boot Release Motor**

**Part No: DL105**

Add convenience to your car that is not fitted with an electric (push button) type boot / hatch release.



**Standard Pinswitch**

**Part No: PIN409**

Used to detect the opening of a vehicle bonnet, boot or doors. Adjusted by cutting the pin.



**Right Angled Pinswitch**

**Part No: PIN410**

Used to detect the opening of a vehicle bonnet, boot or doors. Adjusted by cutting the pin.



**Metal Pinswitch**

**Part No: PINSW**

Used to detect the opening of a vehicle bonnet, boot or doors. Adjusted via the screw thread.



**Van Sliding Door Switch**

**Part No: VANSW**

For use when installing central locking on vehicles with sliding doors such as passenger & commercial vans.

- Female Switch: 82W x 34D x 15H (mm)
- Male Switch: 70W x 26D x 52H (mm)



**40 Amp 5 Pin Changeover Relay**

**Part No: 40ARELAY / 40ARELAY-24**

Commonly used for adding engine immobilisation circuits and connecting electric boot release motors to your system.

Also used for central locking interfacing when vehicle does not have regular negative pulse inputs and your alarm / immobiliser also does not already have onboard central locking relays.



**Differential Pressure Sensor**

**Part No: PRESSENSE**

The differential pressure sensor detects minute or major changes in the internal pressure of a car; when the alarm is armed, the sensor uses the internal pressure as a baseline. Any changes to this pressure - like breaking a window or prying open a door - result in the sensor detecting the change and triggering the alarm.

• High and Low Frequency Tuners



Have you ever needed to know where your vehicle is? Where it has been? How fast it was travelling? View live tracking updates and recorded travel histories with any of the RhinoTracks range. You can use the RhinoTracks GPS service across a multitude of applications including vehicle monitoring, fleet management, anti-theft purposes and real-time tracking.

Visit [www.rhinotracks.com.au](http://www.rhinotracks.com.au) for a demonstration of the RhinoTracks Service

Date / Time	Coordinate	Speed
2013-01-21 13:21:55	-33.9449, 151.2353	0.00 km/h
2013-01-21 13:22:14		0.00 km/h
2013-01-21 13:22:34		14.00 km/h
2013-01-21 13:22:54		14.00 km/h
2013-01-21 13:23:09		0.00 km/h

Start Previous Play Next End

Map Satellite

O'Sullivan Avenue, Sydney  
Address is approximate

For a Demonstration of RhinoTracks Service Visit:  
[www.rhinotracks.com.au](http://www.rhinotracks.com.au)



**Standard RhinoTracks GPS Vehicle Tracking**

**Part No: RHINOTRACKS-ST3**



The RHINOTRACKS-ST3 is our standard GPS Vehicle Tracker, designed to keep you informed of where your vehicle is and where it has been. The system includes standard GPS tracking functions and comes with GPRS and GPS antenna. The RHINOTRACKS-ST3 is suitable for 12V and 24V DC Vehicles.

When coupled with our RhinoTracks Service, the system supports numerous GPS applications including:

- Vehicle Location, Remote Monitoring and Remote Navigation
- Provides Accident and Travel History Records
- Fleet Management
- Real-time Tracking
- 4G Compatible

\* RhinoTracks tracking service fees apply. Fee is charged quarterly in advance at time of purchase. (Fee incurred from mobile network service charges only)

\* Google Maps and Street View are trademarks of Google Inc. The download and use are subject to applicable terms and conditions of Google Inc. RhinoCo Technology is in no way affiliated or associated with Google Inc. or any of its subsidiaries.

\*\* RhinoTracks GPS products require your vehicle is located within selected mobile phone network carrier's GSM coverage, that GPS satellites are operational and that the vehicle is not undercover. RhinoTracks service fees are charged quarterly in advance at time of purchase.



Available on Special Request

**Mini Tracker for Container or Covert Tracking**

**Part No: RHINOTRACKS-CTS**

This compact GPS unit includes the standard GPS tracking functions and is powered by an inbuilt 3.6V Lithium battery, with a standby operation time of more than 12 days. The system has been designed to be mounted on the back doors of a truck or container.

The RHINOTRACKS-CTS has built-in GPS and GSM antennas and has both a motion sensor and magnetic door sensor, to easily detect the status of the container doors. The unit housing has a strong magnetic backing, which makes for simple installation and it includes a tamper switch (with trigger reporting) on the main unit for added protection against vandals.



Available on Special Request

**Stand Alone GPS/GPRS/SMS Solar Panel Tracker**

**Part No: RHINOTRACKS-SPT**

The Solar Powered GPS Tracking System is an ideal product for use in logistics applications such as on top of a truck or container. The internal battery is charged by the large photovoltaic Solar Panel, removing the need for an external power source.

The unit includes the basic GPS tracking functions, allowing you to locate your vehicle from anywhere in the world where you have an internet connection. The built-in GPS and GSM antenna remove the need for external devices, and the unit's tamper switch (with trigger reporting) provides added protection against vandals.



Available on Special Request

**Wind Power Tracking System with Built in GPS/GSM Antenna**

**Part No: RHINOTRACKS-WPT**

This unique wind powered GPS tracking system utilises an independent wind power generator to charge and power the unit, removing the need to connect an external power supply.

This makes the product ideal for mounting on the top of a trailer, truck or container, where it is out of sight from vandals and in a prominent position to capture the wind.

MOBILE DIGITAL VIDEO RECORDERS



**In-vehicle Camera and Recorder with 720p Resolution**

**Part No: MDVR-HDV5**

- H.264 Video Compression
- 2.5" TFT Colour Montior
- Build-in Microphone
- Camera Lens 120°
- 6x IR LED For Night Vision
- Recording Resolutions of:
  - 1280 x 960
  - 720 x 480
  - 640 x 480
- 4GB SD Card Included (Max.Capacity 32GB)
- USB Output
- Time and Date stamp on video and image files
- Continuous recording, old files will automatically overwritten

**MDVR-HDV5 includes:**

- 1 x In-vehicle DVR
- 1 x USB cable
- 1 x 4GB SD card
- 1 x Windshield bracket
- 1 x Car charger
- 1 x User manual

Camera	1 x CMOS Image Sensor
Video Resolution	1280x960/ 640x480/ 320x240
Audio	Internal Microphone
Memory	Supplied with 4GB SD Card, Maximum Memory 32GB
Power	5VDC

**Single Camera HD Mobile Digital Video Recorder**

**Part No: MDVR-HDV6**

- H.264 Video Compression
- 2.7" TFT Colour Montior
- 3.0 Megapixel Camera
- Camera Lens 120°
- Recording Resolutions of:
  - 1920 x 1080 @ 30fps
  - 1280 x 720 @ 60fps
- 4GB MicroSD Card Included (Max.Capacity 32GB)
- HDMI & USB Output
- Continuous recording, old files will automatically overwritten
- Time and Date stamp on video and image files

**MDVR-HDV6 includes:**

- 1 x In-vehicle DVR
- 1 x USB cable
- 1 x Car charger
- 1 x 4GB MicroSD card
- 1 x Windshield bracket
- 1 x User manual
- 1 x HDMI Cable

Camera	3.0 Megapixel
Video Resolution	1920x1080, 1280x720
Audio	Internal Microphone
Memory	Supplied with 4GB MicroSD Card, Maximum Memory 32GB
Power	5VDC



**RECORD ALL CHANNELS  
D1@25FPS**

**Full D1 Recording 4 Channel Mobile Digital Video Recorder with GPS Receiver**

**Part No: MDVR-GPSV3**

The Rhino 4 Channel Vehicle Mobile Digital Recorder with GPS Receiving Unit is the ideal product for a number of applications, including monitoring driver behaviour; providing video evidence in the event of an accident; proving deliveries have been made; and GPS vehicle tracking on playback.

- Mobile DVR Supports Up to 4 Cameras
- Full Time Channel D1 (704 x 576) Real-time (25fps) Recording
- VGA / Composite Simultaneous Video Output
- Full Channel Synchronous Real-time Playback
- Remote Viewing and Multiple Network Monitoring
- Supports 1x SATA HDD and 2x USB 2.0 Ports
- Built-in High Accuracy GPS Module
- Power Supply: 12V / 24V

The unit includes an A/V Input loom to allow you to connect up to 4 cameras to the device (For recording views such as front view, rear view, driver view, passenger/cargo view). The recorded footage is stored on the removable 2.5" Hard Drive, and can be backed up via USB.

\* Hard Drive Not Included

**Add-on 3G module available (Model No: MDVR-GPSV3-3G)**

**VEHICLE REVERSING ASSISTANCE**



**Rearview Mirror with 4.3" TFT-LCD  
Built-in Monitor & Number Plate Camera Kit**

**Part No: VSDS-RVM4.3**

This kit contains all you need to enable safe reversing with confidence, virtually eliminating blind spots. The Monitor/Mirror simply fastens over your vehicles existing rear view mirror and the camera is mounted above your Number plate. When reverse gear is selected, a colour video image is instantly displayed on the in-built 4.3" TFT LCD screen.

- Video Display Turns On Automatically While Reversing
- Built-in 4.3" Colour TFT-LCD Screen
- Monitor Resolution: 480 x 234 pixels
- Anti-glare Blue Glass Mirror
- Secondary Video Input Available
- Power: 12VDC (10W maximum power consumption)

**Camera:**

- 8 x Infrared LEDs Offer Enhanced Night Time Operation
- Easily Mounts Above your Number Plate
- 110° Horizontal Viewing Angle
- Power" 12VDC 200mA



**4 Sensor Reversing Kit with Audible Alert**

**Part No: REVERSE4B**

This device is designed to aid drivers by detecting physical objects when reversing or parking. When reversing, the advanced ultrasonic sensors will detect obstacles within 1.5 metres from the rear of your vehicle.

- Detection Range: 0.2 ~ 1.5m
- 4 x Ultrasonic Sensors - 40KHz
- Digital Control Box
- Speaker for Audible Alert
- 12 Volt DC - 20~200mA

**WARNING:** Both reversing cameras and parking sensors are designed only as an aid to drivers. They should never be considered as a substitute for normal driver responsibility. Proper driving technique and use of mirrors whilst reversing should always be observed by the driver.

VEHICLE CAMERAS & MONITORS



**420TVL Reversing Camera with Adjustable Bracket**

**Part No: VSDS-ABCAM**

- Horizontal Resolution: 420TVL
- Image Sensor: 1/4" CMOS
- Wide Lens Angle: 170°
- IP Rating: IP67 (Waterproof)
- Power: 12VDC



**420TVL Flush Mount Reversing Camera**

**Part No: VSDS-FMCAM**

- Horizontal Resolution: 420TVL
- Image Sensor: 1/4" CMOS
- Wide Lens Angle: 170°
- IP Rating: IP67 (Waterproof)
- Power: 12VDC



**420TVL Reversing Camera with Fixed Bracket**

**Part No: VSDS-FBCAM**

- Horizontal Resolution: 420TVL
- Image Sensor: 1/4" CMOS
- Wide Lens Angle: 170°
- IP Rating: IP67 (Waterproof)
- Power: 12VDC



**420TVL Mini Reversing Camera**

**Part No: VSDS-MINICAM**

- Horizontal Resolution: 420TVL
- Image Sensor: 1/4" CMOS
- Wide Lens Angle: 170°
- IP Rating: IP67 (Waterproof)
- Power: 12VDC



**420TVL Flush Mount Reversing Camera with Infrared**

**Part No: VSDS-BUMPCAM**

- Horizontal Resolution: 420TVL
- Image Sensor: 1/3" CMOS
- Wide Lens Angle: 90°
- IP Rating: IP67 (Waterproof)
- 10x Infrared LEDs for Night Use
- Power: 12VDC



**Number Plate Mounted Colour Reversing Camera with Infrared LEDs**

**Part No: VSDS-NPCAMKIT**

This Reversing Camera simply mounts above your number plate and once connected to one of Rhino's In-Vehicle LCD Monitors will display a clear colour image.

**VSDS-NPCAMKIT Features:**

- 8 x Infrared LEDs Offer Enhanced Night Time Operation
- Easily Mounts Above your Number Plate
- 110° Horizontal Viewing Angle
- Power" 12VDC 200mA
- Camera can be Tilted Up and Down to Provide the Best View
- Compatible with Rhino's Full Range of In-vehicle LCD Display Monitors or any other LCD Display



**7 Inch LCD Monitor with Stand & Remote Control**

**Part No: LCD7**

7" LCD monitor includes stand, remote control and dual video inputs.

**LCD7 Features:**

- Display size: 7 inch
- Aspect ratio: 16:9
- Resolution: 234 x 480pixels
- Dual video inputs (Video1 & Video2)
- Multi-purpose LCD monitor for AV/ TV
- Full function remote control
- Power supply: DC 12V
- Power consumption: 7W
- Dimension: 195 x 140 x 25mm

**10m Video & Audio Cable for Truck Camera**

**Part No: VSRVM-CBL10**

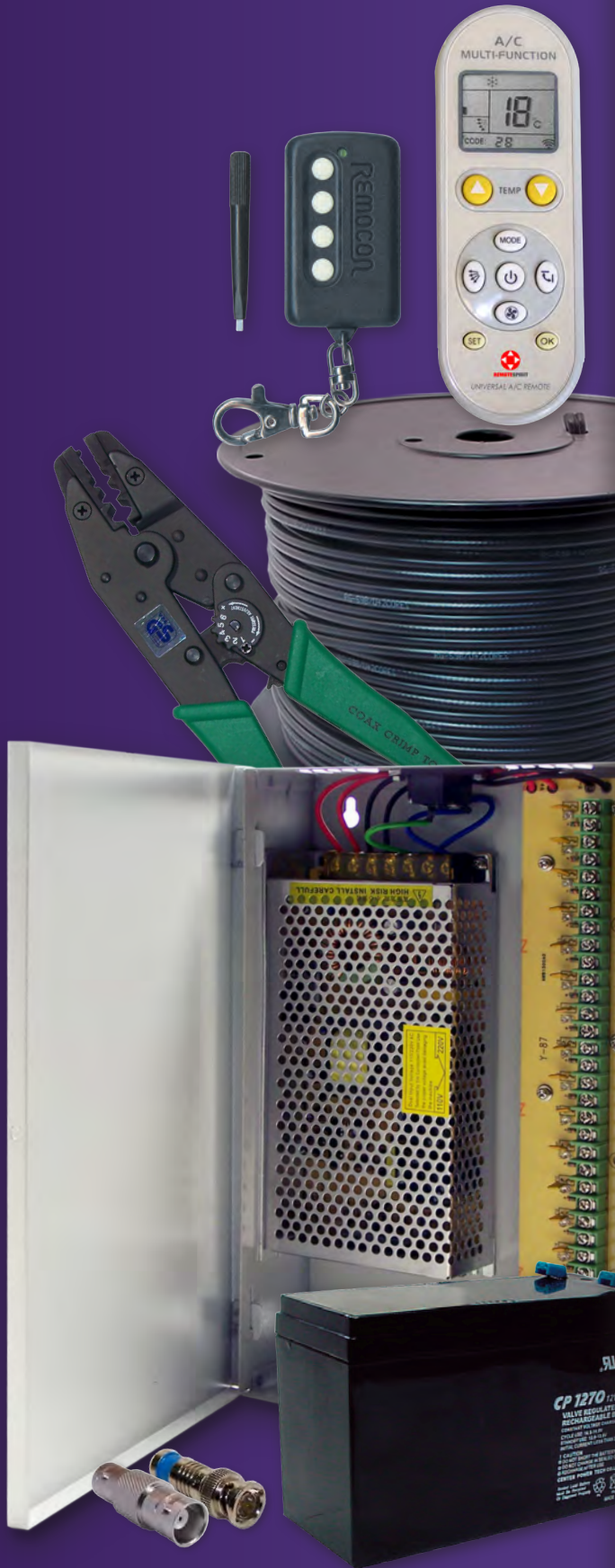
10m RCA (Video and Mono Audio) Cable.



**WARNING:** Both reversing cameras and parking sensors are designed only as an aid to drivers. They should never be considered as a substitute for normal driver responsibility. Proper driving technique and use of mirrors whilst reversing should always be observed by the driver.



# SECURITY ESSENTIALS



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# SECURVIEW™

BATTERIES



**CR2450 3V Lithium Battery**

**Part No: CR2450BULK**

- Suits:
- PIRW3
  - WREEDI



**3V Lithium Battery - CR2025**

**Part No: CR2025BP**

- Suits:
- RCTX3-T



**CR2032 3V Lithium Battery**

**Part No: CR2032BP**

- Suits many general purpose remote controls.



**3V Lithium Battery - CR1616**

**Part No: CR1616BP**

- Suits:
- GTTX / GTSTX / GTRTX / RCTX4-U



**Remote Control Battery 12V, Type 23A**

**Part No: TX12V23A**

- Suits:
- PTX, GLTX



**12V DC 1.2AH Sealed Lead Acid Battery**

**Part No: D12V1.2 (1.2AH)  
D12V7 (7AH)**

- 12VDC
  - Maintenance Free Sealed Lead Acid Battery
  - Non-spillable Construction Design
  - High Quality and High Reliability
  - Low Self Discharge Characteristic
  - Power Failure Backup Battery
- \*Available in 1.2AH and 7AH versions



**Fully Automatic Sealed Lead Acid Battery Charger**

**Part No: PSLEADCHRG**

- 12V 350mA Fully Automatic

AC / DC POWER SUPPLIES



Switchmode Power Supplies

PS5VDC1AMP	5 Volt DC	1000mA	DC Plug
PS5VDC500MA	5 Volt DC	500mA	DC Plug
PS12VDC500MA	12 Volt DC	500mA	DC Plug
PS1500SM	12 Volt DC	1500mA	DC Plug
PS5000SM	12 Volt DC	5000mA	DC Plug
PS16VAC	16 Volt AC	1500mA	Bare Wire
PS18VDC	18 Volt DC	500mA	DC Plug
PS19V2A	19 Volt DC	2000mA	DC Plug
PS24VDC2AMP	24 Volt DC	2000mA	DC Plug
PS24VAC2AMP	24 Volt AC	2000mA	DC Plug

All plugs - Inner Ø: 2.1mm / Outer Ø: 5.5mm

LEADS & CONNECTORS



**DC Power Jack to Jack Coupler**

**Part No: VSDCJ2JC**



**RCA To BNC Adaptors**

**Part No: VSFR2B**

Male RCA to Female BNC adaptor



**BNC To RCA Adaptors**

**Part No: VSFB2R**

Male BNC to Female RCA adaptor.



**BNC / 'T' Connector**

**Part No: VSFBTA**

- BNC - T Connector



**BNC Connectors**

**Part No: VSFBNC  
Part No: VSFBNC3**

- BNC (Standard compression type)

Available Models:

- VSFBNC (For RG59U 750 Ohm Coax Cable)
- VSFBNC3 (With Separate Pin. For RG59 Coax Cable)



**High Quality  
Compression BNC Plug**

**Part No: VSFBNC6**

- For RG6 Cable



**High Quality  
Compression BNC Plug**

**Part No: VSFBNC59**

- For RG59 Cable



**BNC Jack to Jack Bulkhead**

**Part No: VSFBNCBULKHEAD**



**Twist BNC Connector**

**Part No: VSFBNCTWIST**

- Installer Can Fix this BNC Plug by Hand
- More Reliable than Crimp Style
- RG59



**RCA Plug to F-Type Jack**

**Part No: VSFRFPT**



**F-Type Plug to BNC Plug**

**Part No: VSFFPBP**



**F-Type Plug to RCA Jack**

**Part No: VSFFPRJ**



**F-Type Plug to BNC Jack**

**Part No: VSFFPBJ**



**BNC Plug to RCA Plug**

**Part No: VSFBPRP**



**BNC Plug to F Jack**

**Part No: VSFBPFJ**



**Inline BNC Connector,  
Socket to Socket**

**Part No: VSFB2B**

- BNC Socket to BNC Socket



**BNC Plug to Plug 6"  
Adaptor Cable**

**Part No: VSBNC2PAC**



**RCA Plug to BNC Jack  
6" Adaptor Cable**

**Part No: VSRCAP2BNCJAC**



**36" Cable with 12VDC  
Power Plug on Single End**

**Part No: VSPP36C**



**DC Power Plug to  
Screw Terminal**

**Part No: VSDCCABLE**

- DC Plug Dimensions:**  
Outer Ø: 5.5mm / Inner Ø: 2.1mm



**36" Cable with Power  
Socket on Single End**

**Part No: VSPP36C**



**Power Plug to Power  
Plug 6" Adaptor Cable**

**Part No: VSP2PAC**



**1 Female to 2 Male  
Power Couplers**

**Part No: VSDC1F2M**



**Power Socket to Screw  
Mount 6" Adaptor Cable**

**Part No: VSPP2SMAC**



**DC Power Connector**

**Part No: VSFDCP  
Part No: VSFDCPF2.1  
Part No: VSFDCP2.5**

- DC Power Connector Plug 2.1mm (Model: VSFDCP)
- DC Power Connector Socket 2.1mm (Model: VSFDCPF2.1)
- DC Power Connector Plug 2.5mm (Model: VSFDCP2.5)



**Pre-terminated Combined Power & BNC Video Leads**

**Part No: RCA4CHLOOM10M**  
**Part No: RCA4CHLOOM20M**  
**Part No: RCA4CHLOOM30M**

Pre-terminated cables with no crimping required. Your plug & play solution!  
**Please note:** The above power / video leads are not suitable for cameras which draw more than 700mA of current.



**Regulated Switchmode Step Down Converter**

**Part No: VSPOWCONVERTER**

- Converts an AC or DC supply up to 36V to a regulated 12VDC output at up to 1A.



**Connector Strip with Screw Terminals for Distributing Power to Cameras**

**Part No: VSTBB**

- One Input
- 8 Outputs
- Polarity Markings



**Low Voltage Battery Cut-Off**

**Part No: VSPOWCUTOFF**

This Low Voltage Battery Cut-Off connects to your 12 or 24VDC power supply or alarm panel and prevents the complete discharge of the backup batteries.

The product has an adjustable voltage knob, allowing you to calibrate the voltage cut-off range to suit your requirements, and the Master On/Off switch easily turns On/Off both AC and DC power to the control panel or power supply.



**RCA Line Plug Male - Red**

**Part No: VSFRLPR**



**RCA Line Plug Male - Black**

**Part No: VSFRLPB**



**RCA Line Plug Male - Yellow**

**Part No: VSFRLPY**



**RCA Line Socket Female - Red**

**Part No: VSFRLSR**



**RCA Extension Leads (3 x RCA to 3 x RCA)**

**Part No: RCA315**  
**Part No: RCA330**

1.5m (Model: RCA315)  
 3.0m (Model: RCA330)



**Replacement 16ch BNC Lead for VIP Vision Analogue DVR**

**Part No: OCTOBNCN**

This is a replacement 8 Channel BNC lead for VIP Vision capture card.



**5-Way Power Splitter**

**Part No: DC4CHLOOM**

- One DC Power Jack Input
- Five DC Power Jack Outputs

CABLES



**Figure 8 Cable 14 x 0.2mm / 100m Roll**

**Part No: DF8C**



**Figure 8 Cable 24 x 0.2mm / 100m Roll**

**Part No: DF8C2**



**4 Core Cable 4 x 14.20mm Stranded 100m Roll**

**Part No: D4CC2**



**6 Core Alarm Cable 6 x 7/0.2mm Stranded 100m Roll**

**Part No: D6CC**



**Full Copper RG59 75Ohm Coax Cable 100m/R**

**Part No: DCOAXFC**



**100m Roll Combined RG59 Coax and Power Cable - Black 95% Braiding**

**Part No: DCOAXPWR24FCBP**

- Combined coax/power cable
- 100% copper conductor
- Fig 8 - (2 x 24/0.2mm Stranded)

CCTV POWER SUPPLIES



**12V DC 10A 18ch Power Supply Box with Back Up**

**Part No: PS12VDC10A18CHB**

- 18 individual fused outputs
- Short circuit protection
- High voltage protection
- Over current protection
- Backup battery function
- Secure key lock
- Efficient compact design
- Input Voltage: AC 100-240V, Auto Switch
- Output Voltage: DC 12V +/-5%
- Total Output Current: 10A
- Dimensions(mm): 180(H) x 200(W) x 90(D)
- For indoor use only



**24VAC 18 Channel 10A Heavy Duty Transformer - CCTV Power Supply**

**Part No: PS24VAC10A18CH**

Designed specifically for use in the CCTV industry, this 24VAC heavy duty transformer / power supply can be used to provide power to 18 CCTV cameras (cameras rated at less than 500mA).

- 18 individual fused outputs
- Short circuit protection
- High voltage protection
- Over current protection
- Input Voltage: AC100~120V, AC220~240V
- Output Voltage: AC 24V +/-5%
- Total Output Current : 10A / 240W
- Efficient compact design
- Dimensions(mm): 255(H) x 210(W) x 95(D)
- Indoor use only

UNINTERRUPTIBLE POWER SUPPLIES

**UPS Professional Tower Series**

UPS650VA	360W	Tower
UPS1500VA	900W	Tower
UPS2000VA	1200W	Tower



Suitable for standalone DVRs, Workstations and Printers.

- Adapted to protect security and IT applications in home, office and retail environments.
- Adapt the power to the equipment's consumption or to required back-up time.
- The integrated AVR function (Automatic Voltage Regulation) stabilises the output voltage and avoids unnecessary switching to battery mode operation, therefore preserving battery life to support blackouts.
- Several IEC 320 sockets (IT standard) simplify the connectivity to computer and IT peripherals.
- Integrated NTP protection for LAN/ADSL connection against the risk of data line over voltage.

**UPS Enterprise Series - Rackmount / Tower Convertible**

UPS1700VAXCRM	1350W	Rack / Tower
UPS2200VAXCRM	1800W	Rack / Tower
UPS3300VAXCRM	2700W	Rack / Tower



- Ideal solution for protecting small servers, networking devices and peripherals.
- Assures service continuity to critical applications.
- Space and time-saving tower/rack conversion option for easy installation in either in tower mode or inside standard 19" rack cabinets depending on the user's needs.
- No configuration needed on first startup.
- Compact footprint (2U/89 mm) for installation in rack cabinets.
- USB port and HID protocol as standard for direct interfacing with Windows systems®, without the need for additional specialist software.
- Integrated NTP protection for LAN/ADSL connection against the risk of data line overvoltage.
- Load segmentation function to prioritize loads and manage critical situations.
- EPO (Emergency Power Off) emergency stop.
- RS232 advanced connections for the management of the power supply and local/ remote shutdown of applications.

CABLE TOOLS



**7.6 inch Professional Compression Tool**

**Part No: VSCOMPTOOL**

- Adjustable and Changeable for Waterproof Connectors
- Suitable for F/RCA/BNC RG-59, 6 (4C,5C) Waterproof Connectors
- Use with: VSFBC6 and VSFBC59



**Coaxial Connector Cable Crimping Tool with 5 Jaws**

**Part No: TSA50**

- Designed to Crimp BNC/TNC Connectors to RG58C/U and RG62 Coaxial Cable as well as the Centre Pin to the Centre Conductor
- Insulated Handle and Tension 6 Position Adjustment
- Hex sizes: 1.7, 2.5, 5.4, 6.5, 8.2mm
- Use with: VSFBC and VSFBC3



**Coaxial Cable Stripping Tool**

**Part No: VSA18**

- Coaxial Cable Stripper which Suits RG58/59/6 Cable
- Fitted with 3 Blades to Suit 4 Cable Diameters
- This 3 Position Stripper will Strip Cable Revealing Braid, Dielectric and Centre Conductor



**5-in-1 Multi Purpose 12VDC Tester**

**Part No: VSVOLTESTER**

Although compact in size, this 5-in-1 Multi Purpose 12VDC Tester is an essential product for installers who need to perform troubleshooting tests while installing CCTV surveillance systems. The five tests the unit performs are:

1. Voltage Test
2. Load Test
3. Voltage Drop Test
4. PTC Fuse Test
5. Polarity

**Cable Tracer - Tone Generator & Probe**

**Part No: VSCABLETRACER**



The Amplifier Probe is designed to identify and trace wires or cables within a group without damaging the insulation. Work with any Tone Generator to identify wires, volume control for increased sensitivity and adjustable to suit work environment.

Tone Generator is great tool for locating and Identifying cable pairs or individual conductors. This is also function as a continuity and polarity tester. Test results displayed on the three-colored led.

VIDEO BALUNS



**Quad Passive Video Balun - RJ45 Jack to 4 BNC Female Connectors**

**Part No: VSQUADBALUN**

- For both Camera Side and Monitor side
- Camera/Monitor Connectors: 4x BNC Female
- Wire Connector: RJ45 Jack
- Wire Required: CAT5, or Better
- Frequency Response: DC to 6.5 MHz
- Attenuation: 75 ohm to 100 ohm About 0.4dB
- Impedance: Coax/75 ohm, UTP cable/100 ohm.
- Coaxial Cable: Unbalanced, 75 ohm.
- UTP C5: balanced, 24 AWG, 100 ohm.



**1 Channel Video/Audio Balun**

**Part No: VSQC-3424**

This 1 channel balun TR/TX not only has a BNC socket, but it also comes with 2 RCA sockets for audio transmission support. This device converts video camera cabling and increases transmission distance by converting the signal from coaxial to CAT 5 Cable.



**Monitor Side BNC Male Video Active Balun**

**Part No: VSBAL-MBMAA**

- Monitor Side
- BNC Male to Screw Terminal
- 12VDC Power Plug
- 1800m CAT5 Active-Active Transmission Distance



**Camera Side BNC Male Video Active Balun**

**Part No: VSBAL-CBMAA**

- Camera Side
- BNC Male to Screw Terminal with DC Power Plug and Socket Pigtail
- 12VDC Power Plug
- 1800m CAT5 Active-Active Video Transmission Distance



**Camera Side BNC Male Video Active Balun**

**Part No: VSBAL-CBMAL**

- BNC Male to Screw Terminal with 12VDC Plug Pigtail
- 1800m CAT5 Active-Active Video Transmission Distance
- Also Avail. with Built-in Surge Protector



**1 Channel Active Camera Side Balun**

**Part No: VSBALACTIVE**

- 1 Channel Active Camera Side Balun
- 12VDC 50mA
- Connector for camera: BNC Male, BNC Female, F Male, F Female, 20cm BNC Male Cable
- Screw Terminal Wire Connector



**Passive Video Balun Pair  
BNC to UTP**

**Part No: VSBALTWPAIRVO**

- Video Over 2 Wires with Terminal Block



**Passive Ethernet Over Coax  
Baluns**

**Part No: VSEOCAIR**

- Transfers Ethernet Signal through Coax
- Data Rate 10Mbps Up to 100m Cable
- Cost Effective Way of Upgrading to IP



**HDMI Over Coax Extender**

**Part No: HDMICOAXSET**

- Send HDMI signals over single coaxial cable up to 100m at 1080p resolution
- Support daisy chain multiple remote displays
- HDMI 1.3b and HDCP compliant



**1 In 3 Out HDMI to CAT5  
Transmitter / Receivers**

**Part No: HDMICAT5-TX  
HDMICAT5-RX**

- 1 Input 3 Output HDMI to CAT5 Extender with Chainable Receiver
- HDMI1.3 Compliant / HDCP Compatible
- Max Transmission Range 100m at 1080p



**Receiver Shown Top (HDMICAT5-RX)  
Transmitter Bottom (HDMICAT5-TX)**

**VIDEO AMPLIFIERS & DISTRIBUTORS**



**1 Video Signal to 1 Video  
Output**

**Part No: VSAV11BNCF**

- Video Input/Output: 1/1
- Video Connector: BNC Female
- Power Consumption: 12VDC 150mA
- Also Available in 2 Video Output  
**Model: VSAV12BNCF (left)**



**1~4 Video Signal to 4 Video  
Output**

**Part No: VSAV14BNCF (1 Input)  
VSAV24BNCF (2 Inputs)  
VSAV44BNCF (4 Inputs)**

- Video Connector: BNC Female
- **Video Input/Output:**  
VSAV14BNCF: 1/4  
VSAV24BNCF: 2/4  
VSAV44BNCF: 4/4
- **Power Consumption:**  
VSAV14BNCF: 12VDC 150mA  
VSAV24BNCF: 12VDC 300mA  
VSAV44BNCF: 12VDC 500mA



**VIDEO BALUN RACKMOUNT PANELS**



\*Balun Not Included

**19" 1RU Quad Video Balun Panel  
(Unloaded) with Designation Strip**

**Part No: VSQC-3427RMP**

CCTV Quad Balun Blank Panel Accessory with Designation Strip  
This 16 port rack panel is used in conjunction with the VSQC-3427RM to create a professional rack mount solution.



**Quad Video Passive Balun  
BNC Female Bulkhead Panel Mount**

**Part No: VSQC-3427RM**

BNC Female to RJ45 Jack Shielded CCTV Balun Quad - Rack Mountable

**SURVEILLANCE PROTECTION EQUIPMENT**



**UTP Data Surge Protection for  
PTZ Controllers or Data Cables**

**Part No: VSSPU**

- Terminal Block Simple In-Out Design
- Surge protection attack time: 100ns
- Maximum Surge Current: 5000A
- Dimensions: 45W x 25L x 25D mm
- Weight: 74g



**UTP Video & Data Surge  
Protection for IP Cameras &  
Network Devices**

**Part No: VSSPR**

- RJ45 Connector Simple In-Out Design
- Surge protection attack time: 100ns
- Maximum surge current: 50,000A
- Dimensions: 32W x 45L x 72D mm
- Weight: 105g



**Coaxial Surge Protection for  
CCTV Cameras**

**Part No: VSSPB**

- BNC Connector Simple In-Out Design
- Surge protection attack time: 100ns
- Maximum surge current: 5000A
- Dimensions: 78W x 25L x 25D mm
- Weight: 80g



**Ground Loop Isolator**

**Part No: VSVSI**

- 75Ω BNC Male to 75Ω BNC Female
- Transient Voltage Suppressor: 12V RMS
- 100mm Miniature Coaxial Cable Input BNC Male with BNC Female Output
- Isolation Voltage: 750V DC
- Insulation Resistance: >100 M ohm
- Dimension: 50 x 30 x 25 mm



**Single Button Remote Control**

**Part No: GLTX (Fixed Code)**  
**GLRLTX (Rolling Code)**

- GLTX - Fixed Code
- Used with Rhino LS and GA Car Alarms
- GLRLTX - Rolling Code



**2 Button Code Hopping Remote**

**Part No: GTTX (Yellow LED)**  
**GTSTX (Red LED)**  
**GTRTX (Green LED)**

- GTTX - Yellow LED:**
- Code Hopping Suits Rhino RCX and RES4601V2 Immobilisers, WGUARDSMS2010
- GTSTX - Red LED:**
- Code Hopping Suits Rhino GTS Car Alarm
- GTRTX - Green LED:**
- Fixed Code Suits Rhino GTR Car Alarm



**3 Button Code Hopping Remote with LED Torch**

**Part No: RCTX3-T**

- 3 button remote With LED torch
- As supplied With Rhino JAGV2, RAV3 & RAMV2 Car Alarm
- Also compatible with Rhino RCX, RES4601V2 and WGSMS2010



**4 Button Code Hopping Remote Control for RAV3**

**Part No: RAV3TX**

- As supplied with the Rhino RA (V3) and JAGV3 Car Alarm
- Also compatible with Rhino RCX, RES4601V2 and WGSMS2010



**4 Button Code Hopping Remote**

**Part No: RCTX4-U**

- As supplied with Rhino RXPROR4. Optional Use with Rhino RCX, RES, JAG, RAM, WGSMS2010
- Colour Coded Buttons with Printed Numbers to Match GTTX / RCTX3-T i.e Button 1 on Your RCTX4-U is the Same Function as Button 1 on your GTTX Remote



**UHF Learning Programmable 4 Button Replacement Remote**

**Part No: PTX**

The Rhino PTX Remote Control can duplicate a majority of fixed code remote controls (not code hopping remotes). The PTX remote has four buttons so that it will universally suit most remotes with multiple functions. The same code can be copied onto multiple buttons if desired. If your original remote has a function controlled by pressing multiple buttons together, you must duplicate that code to a single button on your Rhino PTX.

- 4 Channel Programmable Remote Control
- Many Uses Including Car & Home Alarms, Panic Buttons, Garage Doors
- Copies Most Radio Frequency Fixed Code Remote Controls
- Learns in Seconds / Battery is Included
- 255-500 MHz Adjustable Frequency

**Universal Air Conditioner Remote**

**Part No: RS10**

This universal air conditioner remote control can control over 100 different world famous brands of air-conditioners, including Fujitsu, Daikin, Hitachi, Mitsubishi and Samsung.

This remote is the ideal product to replace lost or damaged air conditioner remotes and can control multiple functions including fan speed and air swing direction.

**RS10 Features:**

- Low Power Consumption.
- Long Distance Transmission Range
- Simple to Set Up and Operate
- LCD Screen Shows Functions, e.g: Temperature and Operating Mode
- Dimensions (mm): H135 x W47 x D23
- Requires 2x AAA Batteries to Operate



\* Remote Control Not Included

**RF Remote Control Frequency Counter**

**Part No: FREQCOUNTER**

This tool is ideal for both home and vehicle technicians to quickly check if UHF remotes are working and re-tune to correct frequency if required. Features large & easy to read display; reads 250~500MHz; power supply included.



# COMMUNICATION SYSTEMS

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## Stay accessible & remain secure from anywhere with VIP Vision IP Intercoms

VIP Vision IP intercoms combine professional intercom systems and design with benefits of interconnectivity via IP technology, to improve building accessibility and security. The VIP Vision IP intercoms consists of network-integrated apartment and residential intercom systems, designed to save time on installation and be intuitive to use. See just some of the great features offered by VIP Vision IP intercom systems below.

### Remote Accessibility & Security\*

Always be connected to your base with remote unlock, remote live view and the ability to take image snapshots by connecting your smartphone or tablet to your VIP Vision intercom.

Configure to receive push notifications each time your intercom system is called; accept the call; see who is at the door; initiate a conversation; and unlock the door - all from your smartphone!

Talking from your phone or tablet gives the appearance that you're still in the house, using the indoor monitor. Stay accessible and remain secure with remotely accessible IP intercoms from VIP Vision.

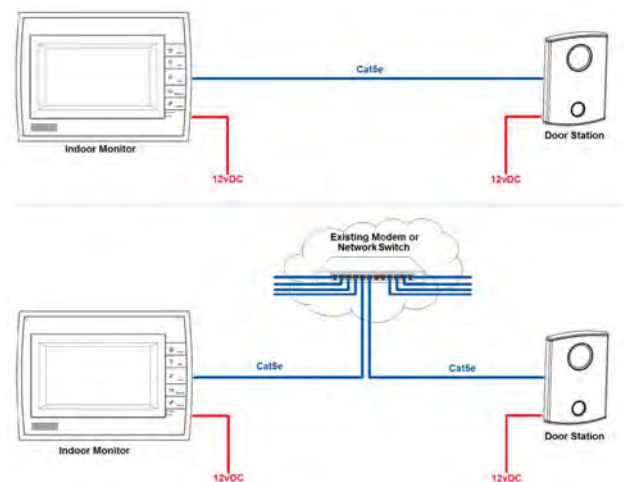


### Easy to Install & Ready to Expand

The VIP Vision intercom kits (page 75) come in a single door station and single monitor bundle. Being an IP system, there are many ways the intercom system can integrate with existing networks.

Installation for a single door station and indoor is as simple as connecting both monitor and door station via a CAT5 cable, then providing power to both devices.

Depending on your needs, the residential intercom kits from VIP Vision can expand to a maximum of six monitors and door stations. Intercom setups on a network switch can also be powered using a Power over Ethernet receiver.



### Integration of IP CCTV Surveillance

The benefits of having an IP intercom system go further than ease of installation and expansion. VIP Vision intercoms can integrate into IP surveillance systems on the same network.

View your VIP Vision CCTV cameras' video stream on your IP intercom monitor, just like you would with the door station camera. This can turn each indoor monitor in your building into a surveillance monitoring station.

Note: Cameras output at monitor display resolution. Integration of IP cameras requires additional configuration.



\*Push notification features only available in select models. Contact RhinoCo Technology for more details. Push notification features available for Google Android & Apple iOS devices via premium DMSS application only.



## Intuitive & Powerful: Residential IP Intercom Kits

The latest range of IP video intercom kits from VIP Vision remove the hassle and complexity of conventional analogue intercom systems. Installation and configuration is dramatically simpler thanks to IP intercoms implementing modern networking and data transfer protocols meaning audio, video and data can be sent across a single CAT5 cable. Couple this with an intuitive touch interface and stylish design, VIP Vision IP intercom kits are the perfect residential intercom solution.



### Complete IP Video Intercom Kits for Residential Use

**1.3 MEGA PIXEL**  
DAY & NIGHT CAMERA

**TOUCHSCREEN**  
CONTROL MONITOR

**EXPAND TO SIX**  
MONITORS & STATIONS

**Part No: INTIPRKIT (White) / INTIPRKITB (Black)**

The INTIPRKIT is an ideal single monitor/door station solution for residential applications. It features a vandal resistant aluminium door station with 1.3 megapixel camera; a 7" touchscreen indoor monitor; and 30m CAT5e Ethernet cable and 2x 12VDC power supplies for installation. This base system can be expanded with additional monitors and door stations, up to six of each in total.

Installation for a single door station and monitor is as simple as connecting both monitor and door station via a CAT5 cable, then providing power to both devices. The door station is operated simply via a single button whilst the indoor monitor is controlled via resistive touchscreen and on-device buttons. The system supports remote unlock, missed/placed/received call details, visitor audio/video messaging and group calling functions.

#### INTIPRKIT Includes:

- 1 x 7" Touchscreen Indoor Monitor (Model: INTIPMONB)
- 1 x Flush Mount Door Station (Model: INTIPRDSV)
- 1 x 30m CAT5e Ethernet Cable
- 2 x 12V DC Power Supplies\*
- 4GB onboard storage (inaccessible) for video/audio messages and camera snapshots

#### INTIPRKITB Includes:

- 1 x 7" Touchscreen Indoor Monitor (Model: INTIPMONBL)
- 1 x Surface Mount Door Station (Model: INTIPRDSB)
- 1 x 30m CAT5e Ethernet Cable
- 2 x 12V DC Power Supplies\*
- 4GB onboard storage (inaccessible) for video/audio messages and camera snapshots

\*Optionally available in Power over Ethernet system with 2 x PoE receiver (WT-CAT5POER) and 1x PoE Switch (VS8PORTPOEV2)



## IP Intercom Systems For Homes & Apartments



### IP Intercom Door Stations for Apartments

Part No: INTIPADSB (Black) / INTIPADSS (Silver)

**INTIPADSB:** For ease of access in all situations, the backlit keypad lights up in blue upon detecting motion and door station includes voice verification on key presses. The stylish black-crystal glass panel features a resistive touch-input keypad.

**INTIPADSS:** This model features a durable die-cast aluminium construction for the station front plate and aluminium keypad buttons. This door station also includes voice verification on key presses for ease of access.

**Common Features:**

- 3.0" Super-twisted Nematic (STN) Display
- 1.3 Megapixel Door Camera with Low Light/Night Time Use
- Input Buttons Feature Voice Verification
- Call Contact / Management Centre / Indoor Monitor Functions
- Support for Tamper Detection and Remote Unlock
- Adopt TCP/IP Protocol - Assigns Unique IP Address for Each Device
- Supports SNMP Network Protocol
- Door Station can Communicate to Up to 255 Indoor Terminals
- Authentication Methods: Integrated Circuit (IC) Card & Password Support
- Power Supply: 12VDC



### IP Intercom Door Stations for Residential

Part No: INTIPRDSB (Black) / INTIPRDSV (Silver)

VIP Vision residential intercom door stations are an ideal IP video intercom solution for homes and single-building premises.

**INTIPRDSB:** This stylish, glossy-black, surface mount residential intercom features a single push-button interface with integrated circuit card support and voice verification. To be installed outside under eaves or other sheltered location.

**INTIPRDSV:** Features a vandal resistant, aluminium construction, flush mount design. Elegant single push-button interface with voice verification and light prompts. To be installed outside under eaves or other sheltered locations.

**Common Features:**

- 1.3 Megapixel CMOS camera with night time use
- Unidirectional microphone audio input / Built in speaker for audio output
- Remote unlock / Visitor audio & video messaging / Group call functions
- Network Protocol: TCP/IP,SNMP,MDI/MDI-X Self-adaptive
- Power Supply: 12VDC





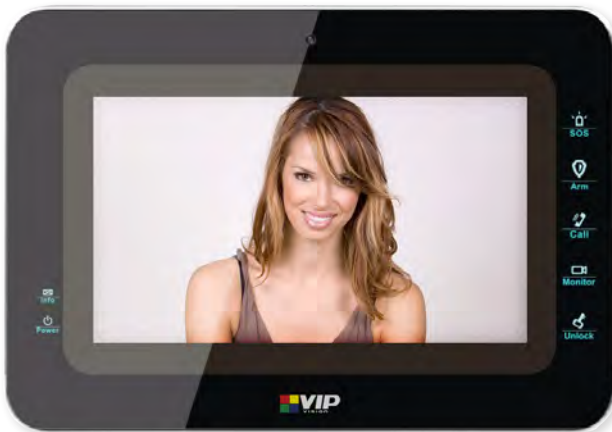
**Touchscreen Indoor Intercom Monitor**

**Part No: INTIPMONB**

The INTIPMONB is a part of the VIP Vision range of elegant indoor monitors to accompany your video intercom solution. The unit is operated via the resistive touchscreen, with common functions completed quickly via buttons on the front of the device.

**INTIPMONB Features:**

- 7" Resistive Touch TFT LCD Screen - 800 x 480 Resolution
- 1 Channel 10/100Mbps Self Adaptive Ethernet
- 4GB Internal SD Card (inaccessible) for Image/Video Storage
- Details Missed / Received / Placed Calls with Timestamp
- Contact Book / Leave Message / Emergency Call Functionality
- Monitor Mode - View Through Camera at Any Time
- Supports Do Not Disturb & Multiple Outdoor Station Connectivity
- Power Supply: 12VDC / PoE requires receiver (Model: WT-CAT5POER)



**Touchscreen Indoor Video Intercom Monitor**

**Part No: INTIPMONBL**

The INTIPMONBL is a part of the VIP Vision range of elegant indoor monitors to accompany your video intercom solution. The unit is operated via the resistive touchscreen, with common functions completed quickly via buttons on the front of the device.

**INTIPMONBL Features:**

- 7" Resistive Touch TFT LCD Screen - 800 x 480 Resolution
- 1 Channel 10/100Mbps Self Adaptive Ethernet
- 4GB Internal SD Card (inaccessible) for Image/Video Storage
- Details Missed / Received / Placed Calls with Timestamp
- Contact Book / Leave Message / Emergency Call Functionality
- Monitor Mode - View Through Camera at Any Time
- Supports Do Not Disturb & Multiple Outdoor Station Connectivity
- Power Supply: 12VDC / PoE requires receiver (Model: WT-CAT5POER)



**Touchscreen Indoor Intercom Monitor & Handset**

**Part No: INTIPMONAH**

The INTIPMONAH is a part of the VIP Vision range of elegant indoor monitors to accompany your video intercom solution. The unit is operated via the resistive touchscreen, with common functions completed quickly via buttons on the front of the device. For additional functionality, this device also features a handset that fits snugly to the left of the main unit.

**INTIPMONAH Features:**

- 7" Resistive Touch TFT LCD Screen - 800 x 480 Resolution
- 1 Channel 10/100Mbps Self Adaptive Ethernet
- 4GB Internal SD Card (inaccessible) for Image/Video Storage
- Details Missed / Received / Placed Calls with Timestamp
- Contact Book / Leave Message / Emergency Call Functionality
- Monitor Mode - View Through Camera at Any Time
- Supports Do Not Disturb & Multiple Outdoor Station Connectivity
- Power Supply: 12VDC / PoE requires receiver (Model: WT-CAT5POER)

**Model without handset also available - Model: INTIPMONA**



ALSO AVAILABLE:  
WHITE HANDSET



**Digital PBX Keyphone System with Four LCD Handsets**

**Part No: EASYPBX-PACK4W (White Handsets)  
EASYPBX-PACK4B (Black Handsets)**

**Complete business phone system: Easy to use & easy to program**

**Main Features:**

- Supports up to 16 handsets and 6 incoming PSTN lines
- Expansion cards available (Voice Mail, Automated Attendant, Automated greeting, Caller ID, Door phone, VoIP trunk / extension)
- Automatic Call Distribution
- Call transfer, Call Forward, Call Park, Call Barring, Call Queuing, Call Override
- Conference Calling & Do Not Disturb
- User Set Alarms
- Least Cost Routing
- Time Based Routing
- Internal or External hold music
- Paging and Intercom
- Distinctive Ring
- Speed and One Touch Dialing
- Optional External Battery Backup

**System Includes:**

- 4x LCD Display Handsets
- 1x PBX Central Control Module

**\*Currently available by special order only. Please contact RhinoCo Technology for more information on availability.**



# ENSA LED LIGHTING



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# ENSA™

LED Lighting and Energy Saving Devices



**In Action: ENSA™ 200W LED High Bay Installation**

### 1 Dramatic Energy & Cost Savings

ENSA LED Lighting can consume up to 70% less energy than conventional high intensity discharge (HID), metal-halide or halogen lamps.

LED lights have a rated operating lifespan far higher than that of their HID counterparts. Reductions in power consumption and replacement lamps can save you thousands annually.

### 2 The Light of the Future

LED technology is the future of lighting. Unlike traditional HID lamps, there is no warm up or cool down phase. LED lights reach maximum intensity immediately after being switched on. LED lights are also more robust.

They are resistant to shock and vibration and they do away with the audible buzzing noises, light flickering and ambient heat generated by conventional lighting.

### 3 Environmentally Friendly Lighting

The reduction in energy consumption offered by LED lighting means that less carbon dioxide is released into the atmosphere. Unlike fluorescent tubes and compact fluorescent lamps, LED lights contain no mercury.

This means they can be disposed of easily and safely. They also do not emit any infrared or ultraviolet radiation.

### 4 Energy Saving Scheme Accredited

We have experience in large installations and are an Accredited Certificate Provider (ACP) under the NSW Government Energy Saving Scheme (ESS). This means we can offer incentives along with our ESS approved products to help you save on your electricity bill and make your workplace more efficient.

Ask us about planning your energy efficient lighting upgrade and how we can improve your return on investment.

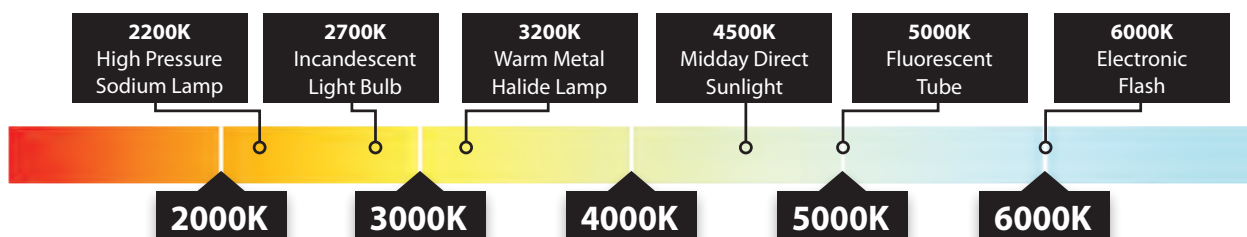
### 5 Assembled & Quality Tested in Australia



As the number one sustainable lighting technology, LED lighting has undergone rapid development. This has led to some brands compromising quality for cost. When reliability and performance is most important, we recommend ENSA's LED lighting range that has been assembled and quality tested in Australia. This includes every product in the ENSA LED high bay range and the LED flood lights for industry range. Check for the logo above on select ENSA products.

### 6 Defining LED Colour Temperature

The ENSA LED lighting range is available in a number of colour temperatures to suit your needs. Below is a reference scale charting existing light sources and their colour temperature. Use this chart as an approximate guide when selecting from our LED lighting range.







## ENSA

### Professional 150W/ 200W LED High Bay Light

Part No: LEDHB150W2 / LEDHB200W

The professional highbay series features an innovative heatsink design with phase-change cooling technology, providing excellent thermal efficiency. It also doesn't require an additional aluminium reflector or diffuser - beam angle is controlled by the precision-built glass lens, giving the high bay a compact and robust aesthetic.

- 15,000 Lumens Light Output (150W)
- 20,000 Lumens Light Output (200W)
- Innovative heatsink design with phase-change cooling technology
- Natural White Colour Temperature
- Includes Mounting Hook & Safety Cable
- IP54 Ingress Protection Rating

4500K



## ENSA

### Domestic 50W LED High/Low Bay Light

Part No: LEDHBD50W45K

The LEDHBD50W45K comes standard with a 90° aluminium reflector, 4500K natural white colour temperature and eyelet mount. 45° and 120° beam angle aluminium reflectors and alternative colour temperatures are optionally available.

- 4000 Lumens Light Output
- Efficient Aluminium Heatsink
- Natural White Colour Temperature
- Includes Mounting Hook & Safety Cable
- Indoor Only

4500K



\* Comes standard with 90° aluminium reflector unless specified. See other reflectors below.



## ENSA

### Domestic 120W LED High Bay Light

Part No: LEDHBD120W45K

The LEDHBD120W45K comes standard with a 90° aluminium reflector, 4500K natural white colour temperature and eyelet mount. 45° and 120° beam angle aluminium reflectors and alternative colour temperatures are optionally available.

- 10,000 Lumens Light Output
- 3-core, high surface area aluminium heatsink
- Natural White Colour Temperature
- Includes Mounting Hook & Safety Cable
- Indoor Only

4500K



\* Comes standard with 90° aluminium reflector unless specified. See other reflectors below.



#### ENSA 120° Aluminium Reflector

Part No: LEDHBRF120

- Ceiling heights 4 - 6m
- Assembly lines, display lighting, general lighting
- Ø: 500mm x H: 150mm



#### ENSA 90° Aluminium Reflector

Part No: LEDHBRF90

- Ceiling heights 6 - 8m
- Retail spaces, manufacturing, warehouses
- Ø: 500mm x H: 150mm



#### ENSA 45° Aluminium or Polycarb Reflector

Part No: LEDHBRF45 / LEDHBRF45P

- Ceiling heights 8 - 12m
- Factories, large retail spaces, halls, sports facilities, large warehouses
- Ø: 420mm x H: 270mm

ENSA PROFESSIONAL LED FLOOD LIGHTING FOR INDUSTRY

The ENSA LED Flood Lighting for Industry range comprises high quality LED flood lights, purpose-built for commercial and industrial applications. Each ENSA Flood Light Pro features a light weight construction of aluminium and UV stabilised plastic. The housing is built for outdoor use with a waterproof body and toughened glass window. Direct driver contact to the heatsink also means that the flood light will remain brighter for longer.

**ENSA**

**50W LED Flood Light Pro**

**4500K**



**Part No: LEDFLP50W45K**

- 50W Power Consumption
- 5000 Lumens Light Output
- 120° Beam Angle
- >0.9 Power Factor
- 85-265VAC Input Voltage
- Natural White Colour Temperature
- IP65 Ingress Protection Rating
- Dimensions (mm): 194 x 253 x 95



**ENSA**

**100W LED Flood Light Pro**

**4500K**



**Part No: LEDFLP100W45K**

- 100W Power Consumption
- 10000 Lumens Light Output
- 120° Beam Angle
- >0.9 Power Factor
- 85-265VAC Input Voltage
- Natural White Colour Temperature
- IP65 Ingress Protection Rating
- Dimensions (mm): 250 x 309 x 116



**ENSA**

**200W LED Flood Light Pro**

**4500K**



**Part No: LEDFLP200W45K**

- 200W Power Consumption
- 20000 Lumens Light Output
- 120° Beam Angle
- >0.9 Power Factor
- 85-265VAC Input Voltage
- Natural White Colour Temperature
- IP65 Ingress Protection Rating
- Dimensions (mm): 340 x 395 x 187



**ENSA**

**400W / 600W LED Flood Light Pro**

**4500K**



**Part No: LEDFLP400W45K / LEDFLP600W45K**

- |                                |                                |
|--------------------------------|--------------------------------|
| <b>LEDFLP400W45K Features:</b> | <b>LEDFLP600W45K Features:</b> |
| • 400W Power Consumption       | • 600W Power Consumption       |
| • 34000 Lumens Light Output    | • 51000 Lumens Light Output    |

**Common Features:**

- Innovative and Efficient Heatsink Design
- 62° Beam Angle
- >0.9 Power Factor
- 85-265VAC Input Voltage
- Natural White Colour Temperature
- IP65 Ingress Protection Rating
- Dimensions (mm): 467 x 266 / Ø367

**Available by Special Request**



## ENSA DOMESTIC HIGH POWER LED FLOOD LIGHTING



**ENSA 100W LED Flood Light**

Part No: LEDFLD100W45K

- 8000lm Light Output
- 120° Beam Angle
- IP65 Rating
- 85-265V AC (50-60Hz)
- 380 x 280 x 260mm



**4500K**



**ENSA 150W LED Flood Light**

Part No: LEDFLD150W45K

- 12,000lm Light Output
- 120° Beam Angle
- IP65 Rating
- 85-265V AC (50-60Hz)
- 380 x 280 x 260mm



**4500K**



**ENSA 200W LED Flood Light**

Part No: LEDFLD200W45K

- 16,000lm Light Output
- 120° Beam Angle
- IP65 Rating
- 85-265V AC (50-60Hz)
- 380 x 280 x 260mm



**4500K**

## ENSA LED FLOOD LIGHTING & SENSOR FLOOD LIGHT FOR DOMESTIC

LED floodlights and tunnel lights are an efficient alternative to traditional HPS (high-pressure sodium), metal-halide and halogen floodlights. LED floodlights can save you 50-70% on your current outdoor lighting costs. Each flood light is offered in a range of colour temperatures, subject to availability.



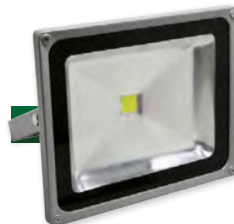
**ENSA 10W LED Flood Light**

Part No: LEDFL10WXK

- 530lm Light Output
- 120° Beam Angle
- IP65 Rating
- 85-265V AC (50-60Hz)
- 115 x 100 x 85mm

**3000K**

**5000K**



**ENSA 50W LED Flood Light**

Part No: LEDFL50WXK

- 3300lm Light Output
- 120° Beam Angle
- IP65 Rating
- 85-265V AC (50-60Hz)
- 285 x 234 x 170mm

**3000K**

**5000K**



**ENSA 20W LED Flood Light**

Part No: LEDFL20WXK

- 1300lm Light Output
- 120° Beam Angle
- IP65 Rating
- 85-265V AC (50-60Hz)
- 180 x 140 x 135mm

**3000K**

**5000K**



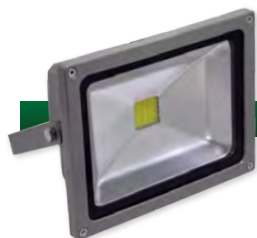
**ENSA 20W Sensor LED Flood Light**

Part No: LEDFL20WXKS

- 120° Detection Arc
- 1120lm Light Output
- 120° Beam Angle
- IP65 Rating
- 85-265V AC (50-60Hz)
- 180 x 140 x 135mm

**3000K**

**5000K**



**ENSA 30W LED Flood Light**

Part No: LEDFL30WXK

- 2000lm Light Output
- 120° Beam Angle
- IP65 Rating
- 85-265V AC (50-60Hz)
- 224 x 185 x 160mm

**3000K**

**5000K**



**ENSA 50W Sensor LED Flood Light**

Part No: LEDFL50WXKS

- 120° Detection Arc
- 2800lm Light Output
- 120° Beam Angle
- IP65 Rating
- 85-265V AC (50-60Hz)
- 285 x 250 x 170mm

**3000K**

**5000K**

\*Cooler and warmer colour temperatures and infrared LED configurations are also available with the ENSA LED Flood Light Pro range by special request. Contact RhinoCo Technology for more details on colour temperature availability.

# ENSA™

## The Most Intelligent LED Batten on the Market



### Energy Efficient

- This ENSA batten features 602 high quality LEDs to provide a total light output of 3240 lumens (90lm/W).
- The light only turns on when light levels fall below set threshold. This energy saving is compounded by using microwave motion sensors and adjustable on-timers.
- When in sensing mode, it uses approx 0.9W



### Weatherproof

- The ENSA LEDBT36WS has an ingress protection rating of IP65, and is built for outdoor use.
- It is completely dust tight and is protected against water ingress from rain.
- The light is ideal for carparks, underpasses & other places with intermittent traffic as well as areas with multiple weather conditions.



### Daylight & Motion

- Motion detection is performed via a microwave motion sensor. It has a wide detection range and may detect motion through doors, glass windows or thin walls.
- Features an adjustable daylight sensor that measures ambient light from 3 ~ 2000 lux.
- Batten turns on automatically when ambient light levels fall below set level.

## ENSA

### Smart Weatherproof 36W LED Batten Light

**Part No: LEDBT36WS**

A truly customisable energy efficient lighting solution, it features a 5.8GHz microwave motion sensor, light sensor and control electronics.

- Light use is controlled via daylight & motion sensors and the on-timer
- Adjustable daylight sensor: 3 ~ 2000 lux ambient light level adjustable
- Adjustable microwave motion sensor: 360° detection in a 1m ~ 8m radius
- On-timer: light remains on for 10s ~ 12m - after no movement detected;
- During this time, if movement is detected, the on-time delay timer is reset
- Comes ready for installation in IP65 housing, suitable for outdoor use



## ENSA

### Microwave Sensor Motion Activated Switch

**Part No: ENSA-MS1**

The ENSA-MS1 is an automated motion-activated switch that uses a 5.8GHz microwave sensor to detect motion and a built-in daylight sensor. Multiply power cost savings by controlling your already energy efficient light to turn on only when you need it.

- Daylight sensor measures ambient light levels (adjustable 5 ~ 2000 lux).
- If light levels fall below the set limit, the microwave sensor is activated and the connected light will turn on when movement is detected.
- The ENSA-MS1 microwave sensor has an adjustable detection range (2 ~ 8m radius), 360° detection arc.
- It may detect motion through doors, glass windows or thin walls.
- On-time of the light after detection is controlled via an adjustable on/off delay timer.



## ENSA

### Outdoor PIR Sensor Motion Activated Switch

**Part No: ENSA-PS1**

The ENSA-PS1 is an IP65 rated, automated motion-activated switch that uses a high sensitivity pyroelectric sensor to detect motion and a built-in daylight sensor. Multiply power cost savings by controlling your already energy efficient light to turn on only when you need it.

- Daylight sensor measures ambient light levels (adjustable 3 ~ 2000 lux).
- If light levels fall below the set limit, the PIR sensor is activated and the connected light will turn on when movement is detected.
- The daylight sensor is disabled whilst the light is on, to prevent false activation of the light.
- An IP65 rating means you can fit the PIR sensor to outdoor lights.
- On-time of the light after detection is controlled via an adjustable on/off delay timer.



**Compound Savings:** When dimmed, ENSA LED sensor tubes only use one fifth of their typical energy consumption. Perfect for car parks.

## ENSA LED TUBE LIGHTING

As a replacement for fluorescent tubes, energy efficient LED tubes can reduce your power bill by at least 50%. They can be easily retrofitted into existing installations. They are ideal for use in offices, stores, factories, warehouses, public transport, supermarkets, shop displays, and exhibition lighting.

### ENSA

**T8 LED Tube Light (1200mm/4ft)**

**5500K**

**Part No: LEDTU20W5K**

The LED sensor tube comes in standard tube sizes to be retrofitted into existing installations. This includes magnetic and electronic ballast configurations. The LEDTU20W5K features a fully polycarbonate body and an internal, non-isolated LED driver, which greatly reduces complexity - increasing long term durability.

- 4ft (1200mm) standard size
- 2100 Lumens Light Output
- Translucent Frosted Diffuser for Soft Light
- 5500K Cool White Colour Temperature
- Easily Retrofittable Design
- Doesn't Contain Mercury or Emit UV Radiation
- IP20 Rated Ingress Protection



## ENSA LED SENSOR TUBE LIGHTING

The inclusion of the infrared sensor means that the light dims when there's no movement in a room. When movement is detected, the tube light brightens. The sensor tubes use less power when dimmed which contributes to your electricity savings. This makes the sensor light ideal for underground/storey car parks, underpasses and other areas with intermittent movement.

### ENSA

**T8 LED PIR Sensor Tube Light (1200mm/4ft)**

**5500K**

**Part No: LEDTU18W5KS3**

The LED sensor tube comes in standard tube sizes to be retrofitted into existing installations. This includes magnetic and electronic ballast configurations.

- 4ft (1200mm) standard size
- 1800 Lumens Light Output
- PIR Sensor Controlled Light - 7m 120° Detection Arc
- Dims when No Movement and Brightens Upon Movement
- 3 Minute ON-Timer
- Translucent Frosted Diffuser for Soft Light
- Available in Cool White Colour Temperature
- Ideal for Car parks, Underpasses and Areas with Low People Traffic
- Doesn't Contain Mercury or Emit UV Radiation
- IP20 Rated Ingress Protection



ENSA LED LIGHTING FOR SHOPFITTING

The ENSA LED lighting for shopfitting range comprises a variety of energy efficient indoor lighting solutions. The range includes fixed downlights, adjustable downlights for directional or key lighting, and as track lighting for focused spot lighting. Each product in the range comes in a variety of colour temperatures, shapes/sizes and brightnesses to provide a tailored lighting solution for your storefront.



3000K  
5500K

**ENSA 6" and 8" Fixed LED Downlights**

**Part No: LEDDL36WXK6R / LEDDL48WXK8R**

6" and 8" LED downlights that features a high performance heatsink and integrated transformer. They are available in 3000K and 5500K models and are rated to last 50,000 hours operating time.

**LEDDL36WXK6R:**

- 3300 Lumens Light Output
- 36W Power Consumption
- 120° Beam Angle

**LEDDL48WXK8R:**

- 4300 Lumens Light Output
- 48W Power Consumption
- 120° Beam Angle



3000K  
6000K

**ENSA 25W 4" LED Track Light**

**Part No: LEDTL25WXK**

The LEDTL25WXK is the perfect energy-efficient focused light solution for storefronts and in-store displays. With full tilt and rotate adjustments, the LEDTL25WXK can be configured to your exact needs.

- 1700 Lumens Light Output
- 25W Power Consumption
- Spot Beam Angle 15°

- Available in 3000K / 6000K
- Three Wire Track Adapter
- Full Tilt/Rotate Control



**ENSA**

**Fixed LED Downlight Range**

3000K  
6000K

**Part No: LEDDL10WXK5R / LEDDL18WXK7R / LEDDL30WXK9R**

The ENSA fixed downlight range provides a variety of different sized energy efficient LED downlights for fixed in-store lighting. Downlights are available in 5", 7" and 9" diameters and each models comes with its own transformer.

**LEDDL10WXK5R:**

- 900 Lumens Light Output
- 12W Power Consumption
- 100° Beam Angle / 3000K & 6000K
- 120mm Hole Cut Size

**LEDDL18WXK7R:**

- 1450 Lumens Light Output
- 18W Power Consumption
- 100° Beam Angle / 3000K & 6000K
- 160mm Hole Cut Size

**LEDDL30WXK9R:**

- 2200 Lumens Light Output
- 30W Power Consumption
- 100° Beam Angle / 3000K & 6000K
- 200mm Hole Cut Size



**ENSA**

**LED Panel Lighting Range**

3000K  
6000K

**Part No: LEDPL4WXK4R / LEDPL12WXK6R / LEDPL25WXK11R**

The ENSA panel light range are an ultra-thin downlight, designed for areas where conventional lighting may be difficult to install. Each panel light in the range has a depth of only 13mm. Each model also comes with its own transformer.

**LEDPL4WXK4R:**

- 290 Lumens Light Output
- 4W Power Consumption
- 100° Beam Angle / 3000K & 6000K
- 95mm Hole Cut Size

**LEDPL12WXK6R:**

- 900 Lumens Light Output
- 12W Power Consumption
- 100° Beam Angle / 3000K & 6000K
- 160mm Hole Cut Size

**LEDPL25WXK11R:**

- 1700 Lumens Light Output
- 25W Power Consumption
- 100° Beam Angle / 3000K & 6000K
- 285mm Hole Cut Size

**ENSA™****Adjustable Mini LED Downlight****3000K****6000K****Part No: LEDDL11WXK4RD**

The ENSA adjustable mini LED downlight range is a compact energy efficient lighting solution. Used effectively for key lighting in product displays. Each model comes with its own transformer.

- 950 Lumens Light Output
- 11W Power Consumption
- Dimmable Control / 60° Beam Angle
- 75mm Hole Cut Size

**ENSA™****Adjustable Round 60W LED Downlight****3000K****5500K****Part No: LEDDL60WXKR**

The ENSA adjustable 60W LED downlight is the most powerful downlight in the ENSA range. It features superior heat dissipation technology and has a lifespan of over 50,000 hours.

- 6000 Lumens Light Output
- 60W Power Consumption
- 60° Beam Angle
- Adjustable - Tilts & Rotates
- High Quality Samsung LEDs
- 215mm Hole Cut Size

**3000K****5500K****ENSA™****Adjustable Round LED Downlights****Part No: LEDDL20WXKR / LEDDL38WXKR**

Each product in the ENSA round LED downlight range features high quality Samsung™ LEDs for superior light output; an adjustable inner housing to change lamp direction; durable power supply; and a stylish white downlight surround with mounting clips.

**LEDDL20WXKR:**

- 1800 Lumens Light Output
- 20W Power Consumption
- 165mm Hole Cut Size
- High Quality Samsung LEDs
- 60° Beam Angle
- Adjustable Housing-Tilts/ Rotate
- 90-260VAC Input Voltage

**LEDDL38WXKR:**

- 3400 Lumens Light Output
- 38W Power Consumption
- 165mm Hole Cut Size
- High Quality Samsung LEDs
- 60° Beam Angle
- Adjustable Housing-Tilts/ Rotate
- 90-260VAC Input Voltage

**3000K****5500K****ENSA™****Adjustable Rectangular LED Downlights****Part No: LEDDL20WXKS / LEDDL48WXKS**

Each product in the ENSA rectangular LED downlight range features high quality Samsung™ LEDs for superior light output; an adjustable inner housing to change lamp direction; durable power supply; and a stylish white downlight surround with mounting clips.

**LEDDL20WXKS:**

- 1800 Lumens Light Output
- 20W Power Consumption
- 227 x 130mm Hole Cut Size
- High Quality Samsung LEDs
- 120° Beam Angle
- Adjustable Housing - Tilts 60°
- 90-260VAC Input Voltage

**LEDDL48WXKS:**

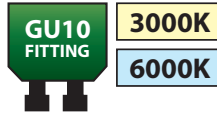
- 4400 Lumens Light Output
- 48W Power Consumption
- 227 x 130mm Hole Cut Size
- High Quality Samsung LEDs
- 120° Beam Angle
- Adjustable Housing - Tilts 60°
- 90-260VAC Input Voltage

ENSA LED MR16 DOWNLIGHTS

**ENSA 4W GU10 MR16 Downlights**

**Part No: LEDGL4WGU3K45D / 6K45D**

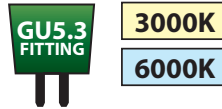
**Power Consumption:** 4W  
**Lamp Flux:** 320lm  
**Beam Angle:** 45°  
**Base Fixture:** GU10  
**Input Voltage:** 85-265 AC/DC



**ENSA 4W GU5.3 MR16 Downlights**

**Part No: LEDGL4WMMR3K45D / 6K45D**

**Power Consumption:** 4W  
**Lamp Flux:** 320lm  
**Beam Angle:** 45°  
**Base Fixture:** GU5.3  
**Input Voltage:** 12V AC/DC



**ENSA 7W GU5.3 MR16 Downlights**

**Part No: LEDGL7WMMR3K40D / 5K40D**

**Power Consumption:** 7W  
**Lamp Flux:** 450lm  
**Beam Angle:** 40°  
**Base Fixture:** GU5.3  
**Input Voltage:** 12V AC/DC



**ENSA 9W GU10 MR16 Downlights**

**Part No: LEDGL9WGU27K60D / 3K60D / 5K60D**

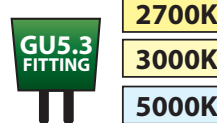
**Power Consumption:** 9W  
**Lamp Flux:** 550lm  
**Beam Angle:** 60°  
**Base Fixture:** GU10  
**Input Voltage:** 100-240V AC 50-60Hz



**ENSA 9W GU5.3 MR16 Downlights**

**Part No: LEDGL9WMMR27K60D / 3K60D / 5K60D**

**Power Consumption:** 9W  
**Lamp Flux:** 550lm  
**Beam Angle:** 60°  
**Base Fixture:** GU5.3  
**Input Voltage:** 12V AC/DC



**Mounting Kit for MR16 LED Downlights**

**Part No: LEDGUKIT**

- 45° Tilt Adjustable White Downlight Gimble Casing (**LEDGIMBLE**)
- 1x GU10 Lamp Holder with mounting Bracket & Cable (**LEDGULH**)
- 1x Insulated Power Cable
- Hole Cut Size: Ø92mm



**Mounting Kit for MR16 LED Downlights**

**Part No: LEDMRKIT**

- 45° Tilt Adjustable White Downlight Gimble Casing (**LEDGIMBLE**)
- 1x Low Voltage Transformer (**LEDTRANS**)
- 1x Insulated Power Cable & GU5.3 Connector Cable
- Hole Cut Size: Ø92mm



**1. DEFINITION**

The expression "The Company", when referred to in these Terms and Conditions, refers to CORNICK PTY LTD ABN 74 001 621 610.

**2. GENERAL**

These Terms and Conditions of Sales apply to the sales of goods and services manufactured or supplied by The Company.

Any order received by The Company is deemed to be an order incorporating these Terms and Conditions and no variation or cancellation of any of these Terms and Conditions shall be binding on The Company unless assented to by The Company in writing. Each order placed by the customer shall be & be deemed to be a representation by it, made at the time that it is solvent & able to pay all of its debts as & when they fall due. Failure to pay The Company in accordance with these terms shall be & be deemed to be conclusive evidence that the customer had no reasonable grounds for making the representation hereof & that the representations were unconscionable, misleading and deceptive.

**3. ACCEPTANCE**

Any quotation by The Company is not to be construed as an offer or obligation to sell and The Company reserves the right, at its option, to accept or reject any orders received.

**4. PRICES**

All prices charged/quoted shall be The Company's prices ruling at the date of despatch. Verbal quotations are subject to written confirmation which will be given when requested. All goods are sold and all prices are quoted FOB ex-works The Company unless otherwise specified. The Company reserves the right at any time to make reasonable adjustments of prices in relation to fluctuations in The Company's cost of labour, material, goods or transport and also in relation to any changes in currency exchange rates or duty which affect The Company's costs for imported goods. Unless expressly noted all prices charged/quoted are exclusive of GST. All government imposts of GST or any equivalent as separately itemised on The Company's invoices are to the customer's account.

**5. CANCELLATION OR VARIATION**

A contract may, at The Company's option, be terminated in the event of insolvency of the purchaser or the purchaser being placed in liquidation, whether voluntarily or otherwise. A purchaser may only vary an order if such variation is accepted by The Company in writing and any variation or cancellation may only occur on terms which will provide for The Company to be indemnified by the purchaser against any loss or damages. Cancellations will attract a cancellation fee and must be at least 90 days prior to current due delivery date. No cancellation will be accepted on indented products. Re-schedules must be at least 45 days prior to the current due delivery date and any item may be deferred only once, up to a maximum of 90 days from the original requested date.

**6. PACKING**

Unless otherwise indicated prices include standard cases or packing.

**7. DELIVERY**

Unless otherwise stated in writing the price quoted is ex The Company's store where stocked. Where delivery is requested beyond this point The Company may, at its discretion, agree to act as agent for the purchaser in this matter and all costs for cartage and insurance will be for the purchaser's account.

**8. TERMS OF PAYMENT**

Cash on Delivery otherwise expressly agreed to in writing. The Company reserves the right to deliver and invoice any item or items comprising the whole or part of any order. Failure of The Company to deliver any part of an order shall not entitle the purchaser to repudiate the contract.

**9. CLAIMS**

The following conditions relating to the return of goods for credit apply to all goods returned for this purpose.

9.1 Goods returned must be accompanied by a Delivery Docket stating original invoice number, date of purchase and reason for return.

9.2 Non-standard equipment made to special order cannot be credited under any circumstances.

9.3 Inward freight packing and delivery charges are the responsibility of the purchaser.

9.4 Goods will only be accepted for credit to the extent of that wrongly or over-supplied.

9.5 All returns must be in good order and condition, unused and in original packaging. No claims by the purchaser need be recognised unless made in writing within fourteen days after delivery of the goods to the purchaser.

9.6 No claim for damage or resultant expense direct or indirect in respect of any goods shall in any case exceed the invoice price of the goods in respect of any damages or expense shall arise. All damage or expense over and above such invoice shall be the responsibility of the purchaser.

9.7 The company may elect to accept return of new and unused goods from customers, at its discretion. In this circumstance the company reserves the right to charge a restocking fee, as it sees fit.

**10. CONDITIONS AND WARRANTIES**

All conditions and warranties expressed or implied by statute, the common law equity trade custom or usage or otherwise howsoever are hereby expressly excluded to the maximum extent permitted by law. Where so permitted the liability of The Company for a breach of a condition or warranty that cannot be excluded is limited (at The Company's option) to the replacement or repair of the goods or the supply of equivalent goods or the cost of replacing or repairing the goods or of acquiring equivalent goods. The Company shall not be liable in any way whatsoever for indirect or consequential loss or damage whatsoever (whether based on tort or contract or otherwise). It is a condition of this contract that the purchaser shall not use the goods for the installation in or in association with aircraft. Goods are not authorised for use in life support devices, systems intended for surgical implant into the body or for applications intended to support or sustain life or where the failure of the product would ordinarily create a situation where personal injury or death is likely to occur. In the event the goods are so incorrectly used, The Company shall be exempt from all liability whatsoever and the purchaser hereby indemnifies The Company in respect of any claims, demands, suits or proceedings whatsoever resulting from such misuse of the goods. The Company warrants its products to be in conformance with its own plans and specifications and to be free from defects in materials and workmanship under normal use and service for 12 months from the date stamp control on the product, or for products not having a date stamp, for twelve months from the date of original purchase unless the installation instructions or catalogue sets forth a shorter period, in which case the shorter period shall apply. The Company's obligation shall be limited to repairing or replacing, at its option, free of charge for materials or labor, any part which is proved not in compliance with The Company's specifications or proves defective in materials or workmanship under normal use and service. The Company shall have no obligation under this Limited Warranty or otherwise if the product is altered or improperly repaired or serviced by anyone other than The Company. For warranty service, return transportation prepaid, to 9 Hannabus Place McGraths Hill NSW 2756 Australia.

There are no warranties, expressed or implied, of merchant ability, or fitness for a particular purpose or otherwise, which extend beyond the description on the face hereof. In no case shall The Company be liable to anyone for any consequential or incidental damages for breach of this or any other warranty, express or implied, or upon any other basis of liability whatsoever, even the loss or damage is caused by its own negligence or fault. The Company does not represent that the products it sells may not be compromised or circumvented; that the products will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; or that the products will in all cases provide adequate warning or protection. Customer understands that a properly installed and maintained alarm system may only reduce the risk of a burglary, robbery, or fire without warning, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss as a result.

Consequently, The Company shall have no liability for any personal injury; property damage or other loss based on a claim the product failed to give any warning. However, if The Company is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, The Company's maximum liability shall not in any case exceed the purchase price of the product, which shall be the complete and exclusive remedy against The Company. This warranty replaces any previous warranties and is the only warranty made by The Company on this product. No increase or alteration, written or verbal, of the obligations of this Limited Warranty is authorised.

#### 11. TITLE TO GOODS

11.1 Notwithstanding delivery of the goods to the purchaser, until the purchaser has effected full payment for the Goods and any other goods previously supplied by The Company:

- a) legal title to the Goods will remain with The Company;
- b) the risk in the Goods will pass to the purchaser on delivery to the purchaser or its agent;
- c) the relationship between The Company and the purchaser will be fiduciary;

11.2 The Purchaser will:

- a) hold the Goods as bailee for The Company;
- b) keep the goods separate from other goods; and
- c) label the goods so that they are identifiable as the goods of The Company;

11.3 With The Company's consent (which is given) the purchaser is at liberty to sell the Goods, in the ordinary course of the purchaser's business, provided that the money from the sale will:

- a) be held in a separate account in trust for the vendor;
- b) not be mingled with other money; and
- c) not be placed into an overdrawn account

11.4 The purchaser is not an agent of The Company in any sale of the Goods by the purchaser.

11.5 After the happening of an Event of Default, the vendor may without demand retake possession of the Goods and may without notice sell the Goods on such terms and in such a manner as it determines and will be entitled to deduct all expenses incurred. For the purposes of recovering possession and without limiting the generality of the foregoing, the purchaser irrevocably authorises and licenses The Company and its servants and agents to enter any premises where any Goods may be stored and to take possession of the Goods.

#### 12. RISKS

Risk in the goods purchased shall, unless otherwise agreed in writing, pass to the purchaser upon delivery of the goods to the purchaser or his agent or to a carrier commissioned by the purchaser.

#### 13. PATENTS

To the best of The Company's knowledge goods sold to the purchaser will not infringe any patent, trade mark, registered design or copyright of any third party but The Company shall in no circumstances be liable to the purchaser in respect of any such infringement constituted by the sale or use of the goods.

#### 14. PERFORMANCE AND REPRESENTATION

Any figures or estimates given for performance of goods are based upon The Company's experience and are such as The Company would expect to obtain on test. But The Company will only accept liability for failure to obtain the figures or estimates given when such figures or estimates are guaranteed in writing within specified margins. The purchaser acknowledges that neither The Company nor any person purporting to act on its behalf has made any representation or given any promise or undertaking which is not expressly set out in the contract whether as to the fitness of the goods for any particular purpose or any other matter.

#### 15. RECOVERY OF COSTS

The customer will pay to The Company any costs and expenses incurred by it or its solicitors, legal advisers, mercantile agents and other parties acting on The Company's behalf in respect of anything instituted or being considered against the customer whether for debt, possession of any goods or otherwise.

#### 16. FORCE MAJEUR

The Company will not be in default or in breach of any contract with the customer by as a result of Force Majeur. Force Majeur means beyond the reasonable control of The Company and includes any strike or lockout either directly or indirectly by any supplier of goods or services.

#### 17. LEGAL CONSTRUCTION

Except as may be otherwise agreed by The Company, the contract shall be governed by the laws of the State of NSW.



Find Our Latest Range,  
Pricing & Specials Online  
[www.rhinoco.com.au](http://www.rhinoco.com.au)

1

## Find the Latest Brochures & Product Info

- Our website is the most dynamic and changing source of information on our range.
- Find the latest brochures, catalogues, sample footage, product demonstrations, manuals and quick start guides at any time of day using our website.

2

## Sign Up for Exclusive Email Specials

- RhinoCo sends monthly email specials to subscribed customers, highlighting new products and special offers! RhinoCo also sends weekly, 24 and 48 hour specials with the best value limited-time offers!
- Contact [sales@rhino.com.au](mailto:sales@rhino.com.au) to start receiving these incredible offers.

3

## Apply for a Trade Login

- Take full advantage of the RhinoCo website by applying for a trade login.
- Order online, view pricing and see the latest specials through your trade login!
- Apply today by visiting our website!



SINCE 1978



RUN WITH US!

# RhinoCo<sup>®</sup>

## TECHNOLOGY

Our people, our products:  
Dedicated to winning you more business

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23<sup>rd</sup> JANUARY 1954