

A large, semi-transparent blue silhouette of a person stands in a landscape. The background features a globe and abstract geometric shapes like triangles and rectangles.

**SPECIAL PRODUCTS CATALOGUE**  
VIDEO SURVEILLANCE TECHNOLOGY



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# SPECIAL PRODUCTS CATALOGUE

## WELCOME

Sonic Communications Ltd has over 35 years experience and this addition of our special products catalogue brings forward yet more enhancements to our specialist equipment with the added addition to our video surveillance systems.

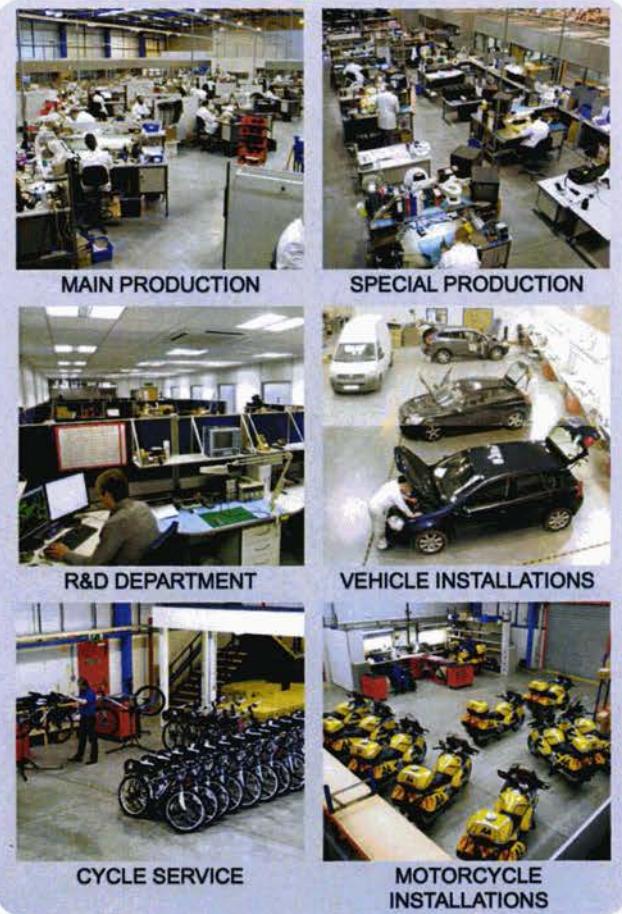
Each year we aim to keep you informed of such products to enable you to become more efficient in your field of work.

As always technology development is the core to our success and we aim to constantly find new ways to make our products more efficient and cost effective. With our extensive research development team and our ability to work with our customers we continue to develop and expand our goals.

We have dedicated presentation rooms for team training and large conference meetings. Come and join us to hear more on any of our products that you may wish to see.

Inside you will find information on these new products. We feel that they will be of benefit to you. If you want to learn more we will be more than happy to produce a demonstration so call us to arrange a visit or alternatively come and see us at one our exhibitions.

We look forward to hearing from you.



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## FlashBack 2

Digital Video Recorder



A 25 way D-Type connector POD is available for the FlashBack-2. This allows for key FlashBack functions via more commonly used connectors.

The FlashBack-2 is a compact and rugged digital video recorder especially designed for covert video surveillance applications.

FlashBack-2 utilises broadcast standard MPEG-2 video compression to record high quality real-time video and audio to one or two Compact Flash (CF) memory cards. Once a recording has been made, the flash cards may be removed and immediately viewed on a hardware CF media player or a PC. As FlashBack-2 files are fully MPEG-2 compliant, standard applications may be used to view and archive recordings to disk or DVD.

- Rugged and compact real-time MPEG-2 video and audio recorder
- Single/dual Compact Flash (CF) memory cards
- Up to 16 hours of high quality recording, 64 hours with a dual 64GB card
- Stereo line and mic level audio recording
- 6 to 15V DC with low current consumption
- Rugged and light weight with no moving parts
- "Burnt in" on-screen date and time
- Easy to install - requires only DC power, a camera feed and record switch

## FlashBack 3

Digital Video Recorder/Streamer



Single unit



Dual unit

The FlashBack-3C is a new version of the highly successful FlashBack range of DVR / streamers with miniature connectors that are colour coded for easy installation.

An internal lithium polymer battery is available as an option for the FlashBack-3 single. The battery is charged whenever power is applied to the FlashBack unit.

There are a number of special accessories available using the new connector system including a GPS receiver, Knowles microphones and a miniature low-light bullet camera.

- FlashBack-3 H.264 DVR streamer with miniature connectors
- Mating cable sets included for the FlashBack-3 Single and Dual
- Interfaces to commonly used video, audio and power connectors
- Easy to install in-line extension cables
- Retains all the key interfaces of the standard system



## FlashBack 3

Camera Kit Deployment Case

To complement the Flashback DVR Sonic Communications supply a variety of camera and lens deployment kits.

To enable surveillance operatives to build their own camera hides a range of camera kits are available.

From a simple DVR unit with a pinhole monochrome camera and day/night camera through to a full installation kit comprising of a number of glass lenses with the necessary tools there is a solution to meet all scenarios.

- FlashBack 3 DVR
- Mains Power Supply
- Cigar Lighter Lead
- Day/Night Camera
- Pinhole Monochrome Camera
- Various Lenses
- Software Disc
- Rugged Transportable Case



For more technical specifications, please visit [www.sonic-comms.com](http://www.sonic-comms.com) or alternatively, contact a member of our sales team +44 (0) 121 781 4400

## TVI S400

Wireless Video Streaming Encoder

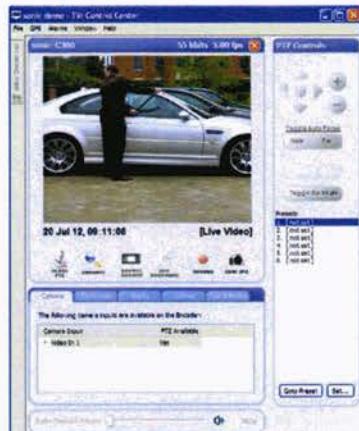


The TVI S400 real-time wireless video streaming encoder provides high-quality video/audio in a low-power, secure, discreet and easy to deploy unit.

With an ultra small form factor and two built-in GPRS/3G/HSDPA modules, the S400 represents the next generation in tactical video intelligence.

The TVI S400 offers secure remote viewing of video over very low bandwidth networks. In comparison to other wireless video technologies, such as MPEG compression, TVI provides a higher quality, lower latency and more resilient approach to real-time video and audio transmission.

- Ultra lightweight, compact enclosure, no moving parts for reliable, resilient & silent operation
- Secure live video & audio (two way) transmission over very low bandwidth (supports 9Kbps to 1Mbps)
- Rapidly deployable (in minutes) for operational situations where installation time is critical
- Constructed to accommodate the high level of vibration associated with vehicle deployment
- Features two integrated GPRS/3G/HSDPA modules (with SIM carriers) for reliable networking
- Changes to codec settings or software upgrades can be delivered remotely over the air
- 10/100 RJ45 Ethernet connector for ADSL & network lines & satellite connectivity



TVI Control Centre Software



TVI Viewing Software for Android/iPhone

## TVI C300

Wireless Video Streaming Encoder

- Secure live video & audio transmission in locations with very low bandwidth (supports 9Kbps to 1Mbps)
- Rapidly deployable (in minutes) for operational situations where installation time is critical
- Lightweight, compact enclosure with no moving parts for reliable, resilient & silent operation
- Highly reliable on-board surveillance transmission from moving vehicles
- TVI C300 includes built-in GPRS/3G/HSDPA module
- 10/100 RJ45 Ethernet connector for ADSL & network lines & satellite connectivity
- Changes to codec settings or software upgrades can be delivered remotely over the air
- TVI functionality also available as a PCB board for integration into other products (i200 & i300)



TVI C300 compact surveillance unit

# Camera Hides

Bodyworn | Static | Vehicle Hides

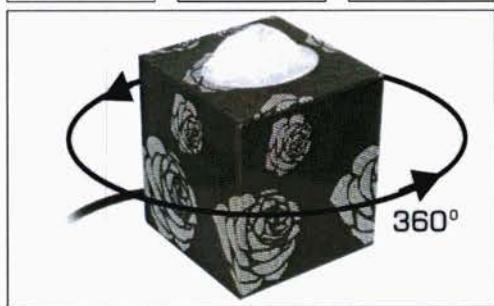
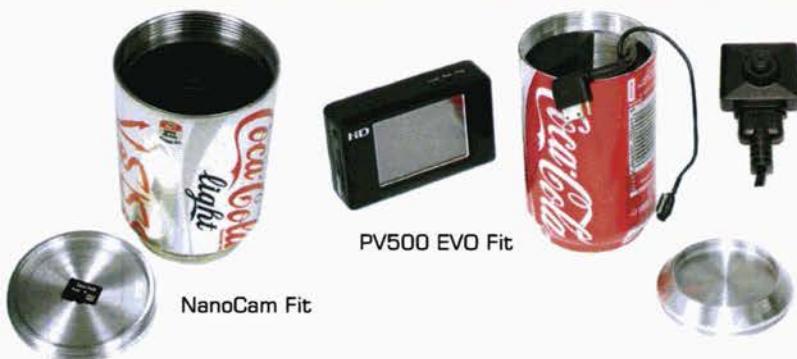


Our range of BODYWORN DVR's and static observation point camera systems are complimented by an extensive selection of devices to serve as a "host" for the camera, to enable it to blend into the operational scenario, without arousing suspicion.

In the bodyworn role, we provide a selection of standard accessories, such as rucksacks, sports bags, handbags, coats, tie's for example, all of which can have cameras fitted within the fabric of the "host", with associated wiring to connect to the DVR or transmission device.

Such devices can either be supplied pre-installed, or we are also able to offer a customised installation service into garments or other "hosts" supplied by the customer.

Due to ongoing improvements in camera optics and miniaturisation, we can also fit cameras with pan, tilt and zoom capabilities into "hosts", suitable for installation within covert vehicles, street furniture and other non-descript items, examples of which can be seen in the attached images.



Some camera hides have a 360 degree viewing capability as shown with the tissue box above.



The examples shown allow the installation of a range of board level cameras, using pinhole or glass lenses to suit the application, along with internal digital recording, transmission to a remote location, or both. Options exist for remote control ON/OFF switching, to allow the "host" to be deployed and then activated as required.



pg04

## BlackBerry™

### Covert Surveillance Camera

The Sonic BlackBerry covert camera offers digital still and video / audio recordings for covert surveillance applications.

#### Operation

- Retaining BlackBerry 8900 phone, camera and data transfer functions
- Screen icon camera select
- Single button image capture / auto send
- Single button to blank screen

#### Special Features

- Provides a natural covert "option" for male and female users
- Re-located camera for discrete recording
- Observe images to be captured
- Review images sent
- Pre-select small or large image file transfer for best speed or quality
- Automatically stores Hi-Res images on an internal Micro SD Card
- One button record and auto distribution
- Automatic transfer of imagery to predetermined E-mail address
- Accepts further application based covert specialist functions

Also available (with SONIC applied phone application)

Wireless RCU featuring talk group, direct and trunk select, PTT and tone functions \*  
 Auto answer dial in (open microphone) from predetermined nominated caller  
 Auto location notification to an predetermined nominated caller

\*with available paired dongle

Simple & easy to setup.



One button capture & automatic transfer of imagery.



Supplied in protective foam case with mains, in-car charge leads & USB.

# NanoCam Series of DVRs

NanoCam2 | NanoCam5 | NanoPen | NanoSprink | NanoButton



## NanoCam 2MP

- 1/2.7" CMOS Image Sensor
- 2 Megapixels (1,600x1,200)
- 3,200 JPEG images
- JPEG Snapshot Recording
- MPEG4, 15-24 fps (QVGA)
- 110 Min Recording Capacity
- AMR, 8 hour audio recording capacity
- Li-Polymer 310mAh Internal Battery. Rechargeable via USB.
- Time Stamp Date, Time
- 512MB Flash Memory (Storage)
- PC Interface USB 1.1 or higher
- Indicators Vibrations, LED
- 55.6 x 34.8 x 16.8mm
- 23g



## NanoCam 5MP

- 1/2.7" CMOS Image Sensor
- 5 Megapixels (2,592X1,944)
- 3,000 JPEG images
- JPEG Snapshot Recording
- MPEG4, 30 fps (VGA)
- 100+ Min Recording Capacity
- WAV, 4 hour audio recording capacity
- Li-Polymer 500mAh Internal Battery. Rechargeable via USB.
- Time Stamp Date, Time
- 8GB Flash Memory max storage
- PC Interface USB 1.1 or higher
- Indicators Vibrations, LED
- 81 x 36 x 17mm
- 28g



## NanoPen 2MP

- 1/2.7" CMOS Image Sensor
  - 2 Megapixels (1,600x1,200)
  - 3,200 JPEG images
  - JPEG Snapshot Recording
  - MPEG4, 15-24 fps (QVGA)
  - 110 Min Recording Capacity
  - AMR, 8 hour audio recording
  - Li-Polymer 310mAh Internal Battery. Rechargeable via USB.
  - Time Stamp Date, Time
  - 512MB Flash Memory (Storage)
  - PC Interface USB 1.1 or higher
  - Indicators Vibrations, LED
  - 144 X Ø13.1mm
  - 35g
- Use with remote control

## NanoSprink & NanoButton 2MP

Both the NanoSprink & NanoButton are based on the NanoCam 2MP specification.

Whilst both come complete with the RF Remote Control, the NanoSprink is equipped with a laser pointer for accurate viewing angles.



## NanoCam OEMs

OEM variants available on request. Cameras can be extended from the unit with optional ribbon cables. For more information, please contact our sales team.

## Q-FOB 8MP



- 1/2.5" CMOS Image Sensor
- 8 Megapixels (3264 x 2448)
- Over 2730 JPEG Images
- MPEG4, 30 fps, 1280 x 720
- 200 Min Recording Capacity
- WAV, 15 hour Recording Capacity
- Li-Polymer 440 mAh rechargeable via USB
- 90 Minutes Internal Battery
- Data/Time Time Stamp
- 4GB Memory Capacity
- USB 2.0
- Vibrations Indicator
- 63 x 46 x 15mm
- 50g

For more technical specifications, please visit [www.sonic-comms.com](http://www.sonic-comms.com)  
or alternatively, contact a member of our sales team +44 (0) 121 781 4400

## NanoSet

Covert DVR



- Miniature device – 58mm x 36mm
- Store & forward/streaming capabilities
- Captures video, audio, stills & GPS positioning.
- Optimized power management for continuous operation
- Integrated Wi-Fi 802.11b/g adapter
- Built-in GPS for accurate positioning
- 8Gb Micro-SD storage
- Up to 6 simultaneous cameras (Controller via Management Software)
- Triggering expansion socket: passive IR sensor, acceleration sensor, Dry switch, VOX Trigger (Voice operated), PIR Trigger (Passive infrared), Acceleration/Vibration Trigger, GPS Trigger
- Extendable Colour or Monochrome camera head
- Composite video input interface
- Built in microphone
- Option for Video & stills embedded with a visible time/positioning stamp
- Wireless connectivity (GPS & Wi-Fi) can use either internal (on-board) antennas or external antennas for coverage expansion
- Comprehensive management software

## PV Series of DVRs

PV500 EVO | PV1000

### PV500 EVO

- Touch screen operation, IR Remote Control
- HD 720P TV Line, 1.3MP
- Frame Counter & Time Stamp
- USB Connection
- SD Card Storage
- Multiple Password Protection
- Compatible with Analogue & Digital Camera
- Continuous/Motion Detect/ Pre-event/Schedule/Over Write Recording modes
- Rechargeable battery pack



### PV500 EVO



Optional HD Camera



Variety of "Hosts" available

### PV1000

- IR Remote Control
- 320X480@ 30fps to highest 1280X960 @ 30fps
- Frame Counter & Time Stamp
- USB Connection
- Built-in 1.8" 120GB HDD & SD Card Option (Supports up to 32GB SDHC)
- Multiple Password Protection
- Pre-Event recording
- Rechargeable battery pack
- Remote wireless RF record on/off option



### PV1000



\*Covert bodyworn solutions available. Please contact us for more information.

# Video Test Monitors

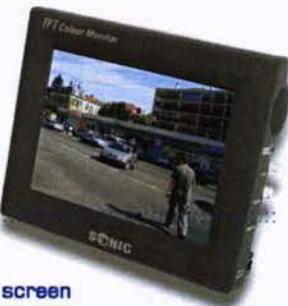


## TYPE 1

- Supplied with a high impact protective sleeve Phono, BNC & 6-pin input sockets
- 6-pin Hi-Rose socket provided to allow testing of 5v & 8v cameras as used on Sting™, Multicam & other Sonic video systems
- Internal Rechargeable Ni-Mh battery pack with a supplied mains charger
- High quality 2.2" LCD display screen PAL/NTSC compatible

## • TYPE 3 5.6" TFT screen

- Flexible power input device powers the screen from either replaceable AA batteries, mains or using a cigarette lighter power source
- Phono and 6-pin Hi-Rose input sockets
- NTSC or PAL camera compatibility
- Internal loudspeaker which allows testing of covert cameras fitted with a microphone
- Ideal for use with Sting II™. The VTM TYPE-3 can also be used as a convenient setup screen for adjusting the menu options & for playing back video files using the composite video output available from Sting II™



## • 10" TFT display Screen

- Excellent viewing screen with built in back light
- PAL/NTSC compatible
- 800 x 600 resolution with 262,144 pixels
- Video input via RCA socket
- 12v DC Operation

# RD1010

Video Surveillance System

- Sony EX-1010P 36 x Optical 12 x digital colour/monochrome auto-changeover camera and motorised pan & tilt unit
- Rugged hand controller for control of PTZ functions
- 5.6" monitor screen
- Rapidly deployable system interface for hand controller, camera & video connection

- BNC socket, providing composite video output
- Can be connected to all types of video recorders with composite video input
- Auxiliary socket providing power, video & optional auxiliary data connections
- Can be powered from a vehicle or an auxiliary battery pack



For more technical specifications, please visit [www.sonic-comms.com](http://www.sonic-comms.com)  
or alternatively, contact a member of our sales team +44 (0) 121 781 4400

## Pegasus

Video Surveillance System



- Ruggedised hand controller for spotting and playback with joystick control for pan & tilt
- Two camera inputs 1 x PTZ intelligent camera day/night or static colour or monochrome
- 1 x composite video input
- Record from either camera
- Composite video O/P BNC
- Internal DVR with 160Gb hard drive

- Instant review capability
- Very review speed & direction
- Scaleable Motion-JPEG compression with 720 x 576 PAL & 720 x 486 NTSC
- Laptop/PC connectivity with configuration software via control socket
- A full range of cameras & camera hides are available including the Omni range of cylinder cameras
- Can be powered from the vehicle or an auxiliary battery pack

## Raven 2

Video Surveillance System

- 2 Pan & Tilt Cameras Day/night or static colour or monochrome
- Ruggedised hand controller for spotting and playback with joystick control for pan & tilt
- Dedicated external record socket, provides video, power & record on/off control

- 3 x Buffered Video Outputs Camera 1, Camera 2 & Monitor Video
- Used with a variety of cameras & hides including Sonic's range of Omni cameras
- Can be powered from the vehicle or an auxiliary battery pack



## Raven 2+

Video Surveillance System

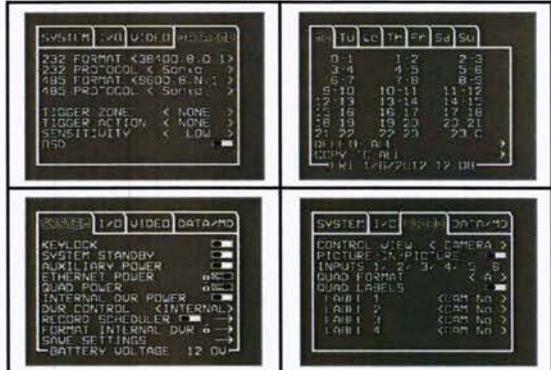


- Dual PTZ camera capability
- Dual controller capability RS-232, RS-485 & GPS data connections
- Camera, control & network video outputs
- MJPEG video & stereo audio DVR
- Internal 160Gb HDD with optional 500Gb HDD and optional 120Gb SSD
- USB port for file download

- RJ45 network connection for live Video streaming, DVR control, camera & system set-up
- Control capability of external Recorder
- 4 x user configurable digital input & output ports
- On screen display system set-up via hand controller/ RS-232 or network connection, including scheduler
- Buffered video outputs for egress systems

# Scorpion+

Video Surveillance System



On screen displays showing (from top left to bottom right) Data Management, Scheduler, System Menu & Video Control



Omni Micro



Handheld Control Unit

- 6 day/night Pan & Tilt cameras or 6 static colour (or monochrome) or a combination of the two can be connected
- Dual Hand controller capability
- RS-232, RS-485 and GPS (requires internal DVR) data connections
- Optional Internal DVR with Scalable Motion-JPEG compression with 720 x 576 PAL & 720 x 486 NTSC
- DVR Option of Internal IDE HDD up to 500Gb or 120Gb SSD (160Gb HDD standard)
- USB port for file download
- Optional Internal Video Server for use with Sonic Virtual Hand Controller
- RJ45 network connection for live Video streaming, DVR control, camera and system set-up (requires internal Video Server)
- Optional Internal Video Quad/Picture in Picture Display
- Set-up via On Screen Display (OSD) menu via Hand Controller
- Weekly Record Scheduler (requires internal DVR)
- 4 x User Selectable Digital Inputs
- 4 x User Selectable Digital Outputs
- Buffered video outputs for egress systems
- Laptop/PC connectivity with configuration software via control socket at the front of the Scorpion
- A full range of cameras & camera hides are available, including the Omni range of cylinder cameras
- Full vehicle installation facilities within our specialist vehicle installation workshop
- The Scorpion can be powered from the vehicle or an auxiliary battery pack

## Fusion

Rural Video Surveillance System

The **Fusion** Video Surveillance System, is the latest addition to our range of rapid deployment/drop camera systems, combining our many years of experience in this field, along with valuable customer input on their operational requirements.

The system is designed in a modular form, with each element built into a ruggedised purpose made enclosure with IP66 rating, to provide a high level of reliability and the ability to be deployed in all situations, irrespective of the environment.

The basic unit comprises a MJPEG DVR with scheduler and the option of fitting a variety of camera modules, colour or monochrome, along with ability to interchange lenses, ranging from 8mm to 50mm.

The basic unit includes a hand held control unit to provide a spotting monitor, record on/off, reviewing and memory status. An enhanced control unit is available when used with PTZ cameras.

The rear of the **Fusion** housing provides military specification connectors, to provide external trigger inputs, 12v power input, hand controller connection and USB download from the DVR.

Other modules in the **Fusion** range include the Omni Micro, 360° camera, with enhanced handheld control unit, 3G and COFDM transmission options and a range of battery pack options.

## Scorpion+ C300 Transportable

6x Camera, 3G Video Surveillance System

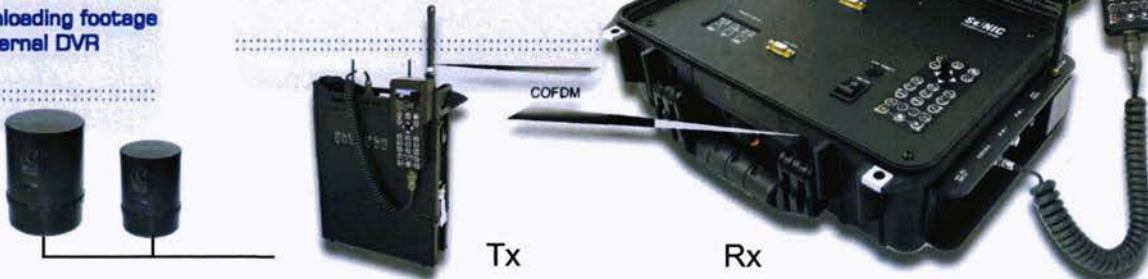
- Internal DVR, Scalable Motion JPEG compression with 720 x 576 PAL & 720 x 486 NTSC
- Internal Solid State 128Gb (SSD) HDD
- The Scorpion+ can be powered from the vehicle or an auxiliary battery pack
- Ruggedised Transportable Case
- 2x PTZ & 4x fixed camera inputs, compatible with the full range of Sonic EOS Cameras
- Ruggedised hand controller for spotting and playback with joystick control for pan & tilt
- A full range of cameras & camera hides are available, including the Omni range of cylinder cameras



## Raven 2 μW Transportable System

Video Surveillance System

- COFDM Microwave Tx/Rx system with telemetry, AES encryption and available in "L" and "S" bands
- 2 Camera Solution allows connection of up to 2 day/night pan & tilt cameras or 2 static cameras or a combination of the two.
- Optional Internal DVR allowing instant playback and reviewing capabilities
- Local Control Capability using Sonic's ruggedised hand controller which features a high resolution 2.5" LCD screen via top panel mounted control socket
- USB socket for downloading footage from the Raven's Internal DVR
- Transmitter powered by rechargeable 12Ah NiMh battery or external 12v input. Receiver powered from 240v mains, 12v PSU, or external 12v DC.
- Lid mounted 8.4" LCD display with control panel
- Panel Mounted Controller allowing remote control of the transmit station
- Option of connecting an external ruggedised hand controller which features a high resolution 2.5" LCD screen via a U-Channel mounted control socket



# Scorpion $\mu$ W Transportable System

Transportable System

- COFDM Microwave Tx/Rx system with telemetry, AES encryption and available in "L" and "S" bands
- 6 camera solution allows connection of up to 6 day/night Pan & Tilt cameras or 6 static cameras or a combination of the two.
- Optional Internal DVR allowing instant playback and reviewing capabilities
- Auxiliary socket with up to 6 buffered cameras composite video signals and dual microphone inputs
- Local Control Capability using Sonic's ruggedised hand controller which features a high resolution 2.5" LCD screen via top panel mounted control socket
- USB socket for downloading footage from the Raven's internal DVR



- Transmitter and Receiver powered from 240v mains 12v PSU or external 12v DC
- Lid mounted 8.4" LCD display with control panel
- Panel Mounted Controller allowing remote control of the transmit station
- Option of connecting an external ruggedised hand controller which features a high resolution 2.5" LCD screen via a U-Channel mounted control socket



## Modular COFDM System

Video Surveillance System



Our modular microwave video transmit/receive system provides all of the benefits of COFDM in providing an exceptionally stable wireless platform, even in high multi-path environments, along with the versatility of being able to be configured into a number of cost effective wireless video intelligence gathering solutions, due to its easy integration into other Sonic products.

The receiver can either be a conventional stand-alone module, or be supplied as a packaged unit (see image), complete with viewing screen, dual diversity reception antennas, signal strength indication and powered from either a rechargeable battery, or from an external 12v dc supply.

Used in conjunction with our handheld control unit and separate telemetry Tx, the receiver station provides an ideal form factor to

allow reception and control of a remote video transmission device in either overt or covert locations.

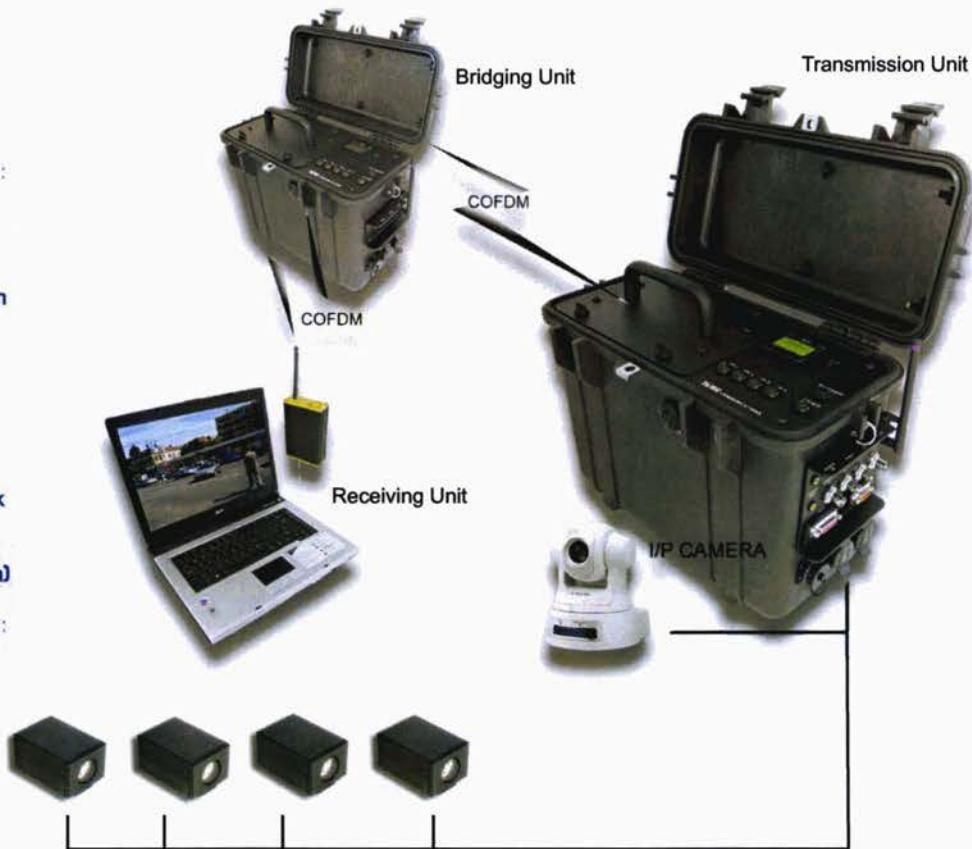
The compact transmission station as shown, provides dual PTZ camera inputs, 100mW or 1W microwave transmitter and a telemetry receiver, which is compatible with all Sonic camera units and can be configured to work with other types/protocols to order.

Systems can be supplied in either L or S bands and for use with single, dual or 6 camera input configurations, with JPEG2000, MPEG4 or H264 compression options.

## SecureLink

Video Transmission System

- Video/IP Transmission System
- Live Video Feed  
3DES/ AES128/ AES256 encryption option
- Supplied in rugged weatherproof case
- Rapidly Deployable
- Removable 13Ah NiMh battery pack
- Securelink bridging units can be added to increase range. (as shown)



## Scorpion | Flexiburner 2

Video Surveillance System

The Scorpion Flexiburner 2 Transportable system combines both the video recording capabilities of the Flexiburner 2 with the advanced features of Scorpion's camera input features, all complete in one convenient carry case.

The case is normally located within the boot of the vehicle and camera input devices extended to it as required.

Full control of the cameras and recording features can be utilised at the front of the vehicle using the Touch Screen found in the glove box.

- Network capable
- Recording capability to external USB hard drive
- Optical Motion Detection software



Glove Box Hide



Retractable Touch Screen

# MDR-120

Digital Video Recorder

- Ruggedised, professional DVR
- Scalable Motion JPEG compression
- Analogue video I/P
- Analogue video O/P for Live view & playback
- 550 TV lines
- 720 x 576 (PAL)  
720 x 486 (NTSC)
- Time/Date Stamp & Character Display
- Time lapse
- Loop Record capability
- PAL or NTSC
- Stereo Audio I/P
- Stereo Audio O/P for live audio & playback
- USB file download
- Internal 128Gb SSD
- Can be used as an external DVR for Raven-2 systems
- Remote record on/off trigger option



# Octtetro

8 Channel H.264 Digital Video Recorder



- H.264 compression  
704 x 576 (PAL)  
704 x 480 (NTSC)
- H.264 @ 704 x 576 main stream/local recording
- MJPEG @ 352 x 288 sub stream/remote monitoring
- 100 frames per second (PAL) at D1 resolution
- Record Monitoring & playback simultaneously
- 8-channel video/audio recording & playback
- Independent channel resolution, quality & frame rate settings

- Supports removable internal SATA HDD
- Support two external USB HDDs
- Composite & VGA video outputs
- Continuous, motion & scheduled recording options
- 8 alarm inputs, 8 relay outputs
- Retrieve video by date, time & event
- Motion detection function with 3 sensitivity values adjustable on each channel
- Remote playback
- Network enabled
- Support USB DVD-RW for file backup



- Vibration & mechanical shock protection
- Back office management, reviewing, exporting & streaming

## Camera Surveillance Tool Kits

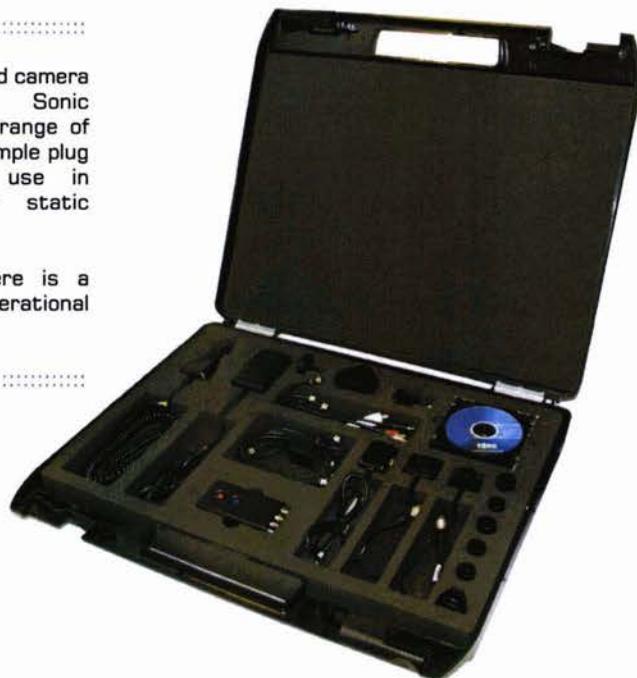
To complement the range of DVRs Sonic Communications supply a variety of camera and lens deployment kits.

To enable surveillance operatives to build their own camera hides a range of camera kits are available.

From a simple DVR unit with a monochrome camera and inverter through to a full installation kit comprising of a number of glass lens and pinhole cameras with the necessary tools there is a solution to meet all scenarios.

Alternatively if a pre-installed camera hide is required, Sonic Communications supply a range of such devices to enable a simple plug and play system for use in body-worn, vehicular or static environments.

All this means that there is a solution to meet every operational requirement and budget.



## Miniature Surveillance Camera's

Sonic Communications (Int) Ltd provides a wide range of high resolution colour or monochrome CCD camera modules to meet all types of application, ranging from bodyworn and mobile to fixed locations. Cameras can be supplied with a selection of "pinhole" or glass lenses, along with a range of focal lengths, to allow the correct combination to be chosen for the operation or host it is to be installed into.

Cameras can be supplied either as part of a system, complete with camera, host and DVR, individually or within a camera surveillance toolkit, to allow the surveillance operator to choose the camera they require for the operation.

For full details on the range of cameras, hosts and surveillance toolkits, please contact our Sales Department.

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SETUP
1. LENS      MANUAL
2. EXPOSURE   J
3. WHITE BAL  AUB
4. DAY NIGHT  AUTOJ
5. 3DNR      ONJ
6. SPECIAL    J
7. ADJUST    J
8. RESET     J
9. EXIT      J

```



OSD Control Cameras  
also available



ULTRA MINI CCIQ II B/W RIGHT ANGLE  
CAMERA



CCIQII MINI CAMERA



CCIQ CAMERA



ULTRA MINI CCIQII COLOUR PROBE  
CAMERA

## MOTORCYCLE/SCOOTER 360° camera hide



SONIC's latest addition to pre manufactured hides and is suitable for a wide range of monochrome camera installations. This solution is ideal for SONIC "OMNI" range of cameras and installations are carried out within our Vehicle Installation Department.

With unique material features this covert installation provides 360 degree view with no camera apertures needed.

The large capacity offered by the top box gives rise to further potential equipment installations such as additional DVRs and other Sonic transmitting equipment.

Sheet material available for in house hide production and alternative pre manufactured options available.

### Features:

- COFDM
- 3G
- Remote view
- Remote PTZ
- Local DVR based CCTV systems

# SPECIAL PRODUCTS CATALOGUE



## FCB-EX20DP COLOUR/MONOCHROME CAMERA

- Image Sensor 1/3-type Super HAD CCD II
- Signal System NTSC PAL
- Number of total Pixels 440,000 pixels (PAL)
- Lens 10x optical zoom, f=5.1 mm (wide) to 51.0 mm (tele), F1.8 to F2.1
- Digital Zoom 12x (120x with optical zoom)
- Horizontal Resolution On / Off (On: 530 TV lines) (H) 52.0° (wide end) to 5.4° (tele end)
- Angle of view 15 mm (wide end) to 800 mm (tele end)
- Minimum working distance 1/60 s, 1/50 s mode: 0.25 lx (typical) (F1.8, 50 IRE)
- Minimum Illumination 1/4 s, 1/3 s mode: 0.015 lx (typical) (F1.8, 50 IRE)
- Video output 1/4 s, 1/3 s mode & ICR on: 0.0004 lx (typical) (F1.8, 50 IRE)
- Storage Temperature VBS: 1.0 Vp-p (sync negative), Composite
- Operating Temperature -20 °C to 60 °C  
0 °C to 50 °C
- Power Consumption 12 V DC / 2.8 W (motors inactive), 8.5 W (motors active)

## FCB-EX1010P COLOUR/MONOCHROME CAMERA

- Image Sensor 1/4-type EX view HAD CCD PAL
- Signal System 440,000 pixels
- Number of total Pixels 36x optical zoom, f=3.4mm (wide) to 122.4mm (tele), F1.6 to F4.5
- Lens 12x (432x with optical zoom) (H) 57.8° (wide end) to 1.7° (tele end)
- Minimum Illumination 1/60 s mode: 1.4 Lx (typical) (F1.6, 50 IRE) 1/4s mode: 0.1 Lx (typical) (F1.6, 50 IRE)
- S/N Ratio More than 50 dB
- Storage Temperature -20 to 60 °C (-4 to 40 °F)
- Operating Temperature 0 to 50 °C (32 TO 122°F)
- Power Consumption 12 V DC/1.6 W (motors inactive), 4.0 W (motors active)

## EX-View ULTRA LOW LIGHT MONOCHROME

- Image Sensor 1/3" Sony ExwaveHAD CCD
- Signal System PAL/NTSC
- Lens 570
- Minimum Illumination 0.00003 Lux at F0.8
- S/N Ratio 46 dB
- Storage Temperature -20 to 60 °C
- Operating Temperature 0 to 50 °C
- Power Requirements +10 to +12.5v D/C

Top Mount Thermal Camera



## Top Mount Thermal Camera

- 320 x 240 Array Size
- 8-14µm Spectral Band
- 9Hz or 60Hz Frame rates

Available with a range of HFOV lenses and operates from -20 °C to 70 °C. The unit is weatherproofed to IP67.

## OMNI Mini



- Hi-Res Day/Night
  - 550 TV lines
  - 36 x Optical Zoom
  - 12 x Digital Zoom
  - 1.4 Lux
- Low Light Day/Night
  - 550 TV lines
  - 28 x Optical Zoom
  - 12 x Digital Zoom
  - 0.25 Lux
- Black and White
  - 520 TV lines
  - 18 x Optical Zoom
  - 12 x Digital Zoom
  - 0.01 Lux
- Ultra Low light
  - 570 TV lines
  - Monochrome
  - 0.00004 Lux
- Thermal
  - 320 x 240 Array Size
  - 8-14µm Spectral Band
  - 9Hz or 60Hz Frame rates

## OMNI Micro



- Colour
  - 460 TV lines
  - 10 x Optical Zoom
  - 4 x Digital Zoom
  - 1.5 Lux
- Hi-Res Colour
  - 530 TV lines
  - 10 x Optical Zoom
  - 12 x Digital Zoom
  - 1 Lux

## OMNI Nano



- Day/Night
  - 520 TV lines
  - 3 x Digital Zoom
  - 1 Lux
- Hi-Res Day/Night
  - 550 TV lines
  - Digital Day/Night
  - 0.2 Lux
- Black and White
  - 600 TV lines
  - 0.05 Lux



## OMNI Dual Mini

Cut away view



Omni cameras can be configured for use with all protocols and are available with IP interface.

## Pan & Tilt

Internal | External

Sonic Communications (Int) Ltd also supply a wide range of motorised Pan & Tilt units, to suit all camera types and environmental conditions. These are available for 12v operation as standard, or can be supplied with DC/DC converters or AC mains adaptors, to suit other requirements.

In addition to conventional pan & tilt drives, we also provide a number of forward pivoting pan & tilt units to suit all camera sizes, designed to allow the minimum size of viewing window to be provided, yet still allowing horizontal and vertical movement to be achieved. Used in conjunction with pinhole lens cameras, it means that you can achieve pan & tilt movement through a hole only 2mm in diameter



## Covert Car Video Installation

Video Surveillance Systems



## Edic Audio Recorders

Miniature | Long Recording Time



B30

- 8.5 months Battery life in stand-by
- 70 hour Battery life continuous recording
- CR 2032 Lithium Cells
- 1Gb- 8Gb Flash Memory
- Ext Microphone Supported
- D=10mm, Diameter=26.5mm
- Record time: 300h, 600h, 1200h



A31

- Rechargeable 75 mA/h Li-Po Battery
- 5 months Battery life in stand-by
- 25 hour Battery life continuous recording
- Up to 25 hour Battery life
- 2Gb, 4Gb & 8Gb Flash Memory
- Ext Microphone supported
- H=29mm, W=12mm, D=15mm,
- Record time: 300h, 600h, 1200h



B22

- 3 months Battery life in stand-by
- 24 hour Battery life continuous recording
- CR2016 Lithium Battery
- 1Gb – 8Gb Flash Memory
- Ext Microphone supported
- H=31mm, W=25mm, D=6mm,
- Record time: 300h, 600h, 1200h



B21

- AG13 Battery Cell
- 2 months Battery life in stand-by
- 10 hour Battery life continuous recording
- Standard LR44 type Battery
- 2Gb, 4Gb & 8Gb Flash Memory
- H=40mm, W=15mm, D=10mm
- Record time: 300h, 600h, 1200h

## Negotiator 2+



### NEGOTIATOR 2+

Rapidly deployable compact and flexible Negotiator Recording Station. This compact unit offers high quality 2 way audio recording onto dual Marantz PMD620 Audio Recorders.

NEGOTIATOR 2+ is designed for use in a variety of negotiation scenarios, offering operational familiarity to installers and negotiators.

Negotiator 2+ can be configured to work with most Smartphones and offers the following -->

- Automatic recording of two way conversation onto Marantz audio recorder
- High Capacity internal 13Ah battery
- External DC/Mains Power inputs
- Integral Loudspeaker and 2x Monitoring Headset positions
- Negotiator Headset position giving both transmit and receive communications
- GSM phone battery charge maintained by system
- Intelligence cell feeds.



IR Transmitter



IR Headset



System Carrying Case

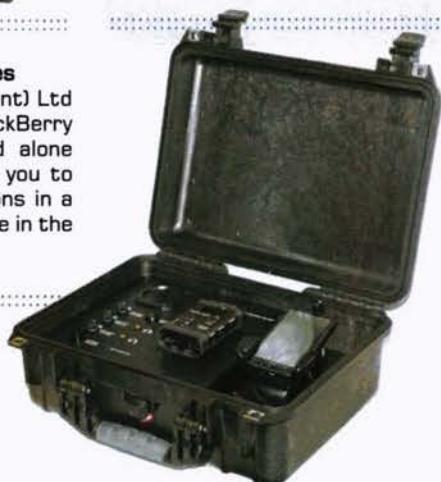
## GSM Audio Devices



- Voice activation allows the GSM unit to monitor the surrounding area
- High quality audio microphone for clear sharp sound
- Many remote user programmable features such as microphone, sensitivity and sleep mode etc.
- High capacity internal Li-ion battery
- Can be used with Negotiator Lite for connection and remote monitoring/recording.

### Quad Band GSM Audio Devices

Sonic Communications (Int) Ltd provide both Apps for BlackBerry mobile phones and a stand alone GSM Audio Device, to allow you to covertly monitor conversations in a room or vehicle from anywhere in the world.



### GSM Command

The Sonic Communications (INT) Ltd **GSM Command** module allows the user to remotely enable power to the camera control system, recorders and egress systems over the GSM cellular network.

This is done using a mobile phone handset and dialling the phone number of the SIM card fitted in the **GSM Command** module, once connected a PIN will need to be entered which is checked against the PIN stored on the SIM card before control over the systems is authorized. Confirmation of the correct Pin being entered is by way of an ascending tone and the background audio from the **GSM Command** becoming live.



## Battery Pack Modules



To complement our products, we can supply a range of high capacity primary lithium battery packs, which combine high performance with relatively low weight, when compared to comparable Ah capacity lead acid battery packs. Capable of providing a stable 14.4v DC nominal output over a wide temperature range of -20° - +95°C, with a low self-discharge rate, these power sources provide an ideal solution to extended deployment of equipment's in surveillance operations. Battery packs can be supplied terminated with power connectors to fit directly to our products, or with your specified connector and are supplied in a sealed flame retardant black ABS case.

### • 56 Ah Battery Pack (56M1)

- Dimensions: (L)110mm x (W)240mm x (D)75mm
- Weight: 3.3Kg

### • 140Ah Battery Pack (140M1)

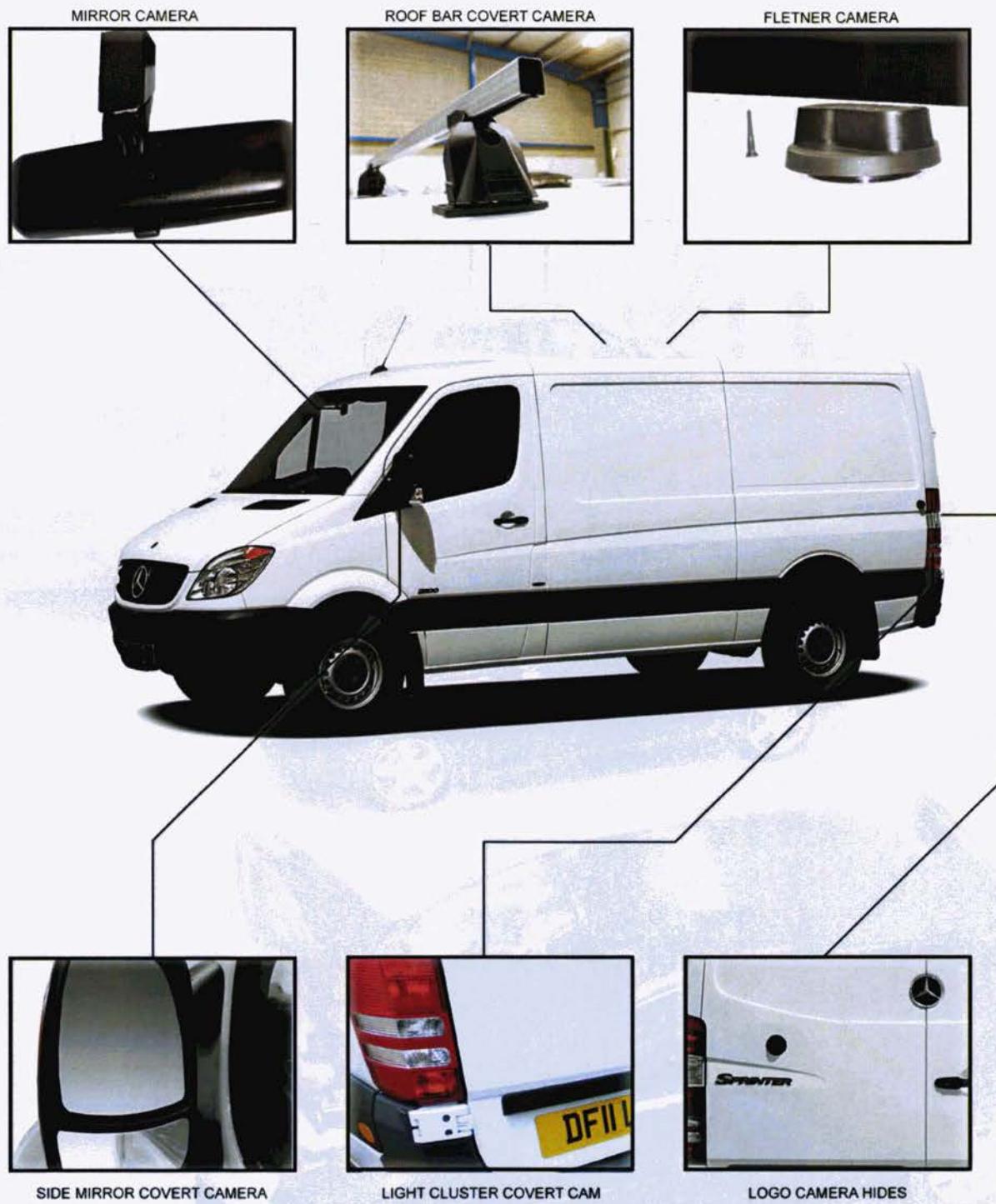
- Dimensions: (L)212mm x (W)240mm x (D)75mm
- Weight: 6.7Kg

### • 224Ah Battery Pack (M1)

- Dimensions: (L)284mm x (W)284mm x (D)75mm
- Weight: 10.0Kg

# SPECIAL PRODUCTS CATALOGUE

VEHICLE INSTALLATIONS | VIDEO SURVEILLANCE SYSTEMS | DIGITAL VIDEO RECORDERS | VIDEO TRANSMISSION SYSTEMS



## Example Covert Observation Van Installation



## Example Car Installation



## Example Motorcycle Installation



For more technical specifications, please visit [www.sonic-comms.com](http://www.sonic-comms.com)  
or alternatively, contact a member of our sales team +44 (0) 121 781 4400

# SONIC

COMMUNICATIONS



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