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Defence & Security Products Division

Vertigo

Vertigo offers a unique covert answer for surveillance operations with its roof top housing containing high resolution camera and lens and incorporating pan and tilt system.

Vertigo can be positioned by law enforcement officials to watch and record in an urban environment without detection.



- Equipped with long range lens and camera to suit.
- Available in colour, monochrome, thermal or image intensified.
- Easy to set-up, carry and display.
- Compatible with existing telemetry equipment or can be controlled locally with its own control box.
- Ideal for short, medium or long term operations.
- Rapidly deployed.
- Man portable.

Vertigo is built to withstand the environment in which it is used and has been proved in the field to be a highly effective covert surveillance device.



Real Images captured at various focal lengths (school building at 4km)



12.5mm Focal Length



300mm Focal Length



506mm Focal Length



600mm Focal Length



1012mm Focal Length



1500mm Focal Length

Camera Options:

Any combination of high quality colour, high sensitivity monochrome or image intensified camera (3 options) can be married to the lens chosen and housed in an environmental housing ready for installation to a new or existing CCTV system.

Lens Options:

| | |
|-------------|------|
| 10-300mm | F1.5 |
| 20-600mm | F3.0 |
| 17-374mm | F2.3 |
| 23-506mm | F3.1 |
| 46-1012mm | F6.1 |
| 12.5-1500mm | F3.8 |

Colour Camera

| | |
|-------------------|-----------|
| Resolution | 480 TVL |
| Min. Illumination | 0.2 Lux |
| Format | 1/3" inch |

Monochrome

| | |
|-------------------|-------------|
| Resolution | 570 TVL |
| Min. Illumination | 0.00015 Lux |
| Format | 1/2" inch |

Image Intensified

| | |
|------------|-----------|
| Resolution | 570TVL |
| Format | 1/2" inch |

TUBE COMPARISON CHART

| Typical Values (Information source Photonis) | Gen 2+ | XD-4 | XR5 |
|---|--------|------|------|
| Sensitivity ($\mu\text{A}/\text{lm}$) | 450 | 700 | 800 |
| Resolution (lp/mm) | 32 | 64 | 72 |
| Signal to Noise ratio | 15 | 23 | 28 |
| Figure of Merit (FOM) Typical | 480 | 1472 | 2016 |

Electrical Specification

Connector 14 Way
Input voltage 12V DC

Environmental Specification

Waterproof To IP67
Sealed aluminium housing

Zoom Lens

All zoom lenses are motorised focus, continuous motorised zoom and fitted with auto iris. (Presets can be fitted as an option at the time of manufacture).

Fields of View table

The following table shows angles of view in degrees and mils at wide angle and telephoto including where applicable any extender

| | | Lens Options Horizontal Field of View | | | | | | | | | | | |
|-------------------|------|---------------------------------------|-------|--------|-------|--------|-------|--------|-------|---------|-------|-----------|-------|
| | | 10-300 | | 20-600 | | 17-374 | | 23-506 | | 46-1012 | | 12.5-1500 | |
| | | Deg | Mils | Deg | Mils | Deg | Mils | Deg | Mils | Deg | Mils | Deg | Mils |
| Colour | Wide | 23.8 | 423.2 | 11.8 | 211.6 | 16.04 | 285.2 | 11.55 | 205.4 | 5.775 | 102.7 | 21.44 | 381.2 |
| | Tele | 0.84 | 14.94 | 0.42 | 7.468 | 0.44 | 7.823 | 0.32 | 5.69 | 0.16 | 2.845 | 0.88 | 1.422 |
| Monochrome | Wide | 35.5 | 631.2 | 17.75 | 315.6 | 21.19 | 376.8 | 15.5 | 275.6 | 7.75 | 137.8 | 28.43 | 505.5 |
| | Tele | 1.25 | 22.23 | 0.625 | 11.11 | 0.59 | 10.49 | 0.43 | 7.645 | 0.215 | 3.823 | 0.11 | 1.956 |
| Image Intensifier | Wide | 35.5 | 631.2 | 17.75 | 315.6 | 21.19 | 376.8 | 15.5 | 275.6 | 7.75 | 137.8 | 28.43 | 505.5 |
| | Tele | 1.25 | 22.23 | 0.625 | 11.11 | 0.59 | 10.49 | 0.43 | 7.645 | 0.215 | 3.823 | 0.11 | 1.956 |

Ordering Information Vertigo Surveillance Systems

| Part No. | System/Choice | Lens | | | | | |
|-------------------------|---|----------|----------|----------|----------|-----------|-------------|
| | | 10-300mm | 20-600mm | 17-374mm | 23-506mm | 46-1012mm | 12.5-1500mm |
| 589-701V | Long range Day Vertigo comprising high resolution colour CCD camera | ✓ | | | | | |
| 589-702V | Long range Day Vertigo comprising high resolution colour CCD camera | | ✓ | | | | |
| 589-703V | Long range Day Vertigo comprising high resolution colour CCD camera | | | ✓ | | | |
| 589-704V | Long range Day Vertigo comprising high resolution colour CCD camera | | | | ✓ | | |
| 589-705V | Long range Day Vertigo comprising high resolution colour CCD camera | | | | | ✓ | |
| 589-706V | Long range Day Vertigo comprising high resolution colour CCD camera | | | | | | ✓ |
| 589-701VB | Long range Vertigo comprising high resolution colour and high sensitivity monochrome camera | ✓ | | | | | |
| 589-702VB | Long range Vertigo comprising high resolution colour and high sensitivity monochrome camera | | ✓ | | | | |
| 589-703VB | Long range Vertigo comprising high resolution colour and high sensitivity monochrome camera | | | ✓ | | | |
| 589-704VB | Long range Vertigo comprising high resolution colour and high sensitivity monochrome camera | | | | ✓ | | |
| 589-705VB | Long range Vertigo comprising high resolution colour and high sensitivity monochrome camera | | | | | ✓ | |
| 589-706VB | Long range Vertigo comprising high resolution colour and high sensitivity monochrome camera | | | | | | ✓ |
| 589-701VT2+* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and Gen 2+ image intensified CCD camera | ✓ | | | | | |
| 589-702VT2+* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and Gen 2+ image intensified CCD camera | | ✓ | | | | |
| 589-703VT2+* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and Gen 2+ image intensified CCD camera | | | ✓ | | | |
| 589-704VT2+* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and Gen 2+ image intensified CCD camera | | | | ✓ | | |
| 589-705VT2+* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and Gen 2+ image intensified CCD camera | | | | | ✓ | |
| 589-706VT2+* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and Gen 2+ image intensified CCD camera | | | | | | ✓ |
| 589-701VTXD4* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and image intensified XD-4 CCD camera | ✓ | | | | | |
| 589-702VTXD4* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and image intensified XD-4 CCD camera | | ✓ | | | | |
| 589-703VTXD4* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and image intensified XD-4 CCD camera | | | ✓ | | | |
| 589-704VTXD4* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and image intensified XD-4 CCD camera | | | | ✓ | | |
| 589-705VTXD4* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and image intensified XD-4 CCD camera | | | | | ✓ | |
| 589-706VTXD4* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and image intensified XD-4 CCD camera | | | | | | ✓ |
| 589-701VTXR5* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and image intensified XR5 CCD camera | ✓ | | | | | |
| 589-702VTXR5* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and image intensified XR5 CCD camera | | ✓ | | | | |
| 589-703VTXR5* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and image intensified XR5 CCD camera | | | ✓ | | | |
| 589-704VTXR5* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and image intensified XR5 CCD camera | | | | ✓ | | |
| 589-705VTXR5* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and image intensified XR5 CCD camera | | | | | ✓ | |
| 589-706VTXR5* | Long range Vertigo comprising high resolution colour, high sensitivity monochrome and image intensified XR5 CCD camera | | | | | | ✓ |
| 589-741VTI* | Medium range thermal Vertigo comprising 320x240 pixel thermal camera with 75mm lens. Horizontal angle of view 12° | | | | | | |
| 589-742VTI* | Long range thermal Vertigo comprising 320x240 pixel thermal camera with 100mm lens. Horizontal angle of view 9° | | | | | | |
| 589-743VTI* | Super Tele thermal Vertigo comprising 320x240 pixel thermal camera with 75mm lens. Horizontal angle of view 6° | | | | | | |
| Accessories for Vertigo | | | | | | | |
| 589-706 | Vertigo control box, including 3m cable for day Vertigo | | | | | | |
| 589-706C | Vertigo control box, including 3m cable for all changeover Vertigo models | | | | | | |
| 589-706T | Vertigo control box, including 3m cable for all thermal Vertigo models | | | | | | |
| 820600-02 | Electronic Image Stabilisation Unit | | | | | | |
| 583-334 | Video image enhancer, MicroTest EV9 | | | | | | |

*Export of this product from the UK is controlled under U.K. Export Licence Regulations. All goods are supplied under our standard conditions of trade. We reserve the right to amend design and specifications without prior notification

Vertigo

Technical Specifications

Specifications

IP66 rated
12V DC via 26 pin connector, male
Pan speed up to 12°/sec
Tilt speed up to 6°/sec
Pan angle 300° (minimum)
Tilt angle -30° - + 10°

Control Box

12V DC pin connector female
Waterproof
Two speed control for pan and tilt
Pan, Tilt, Zoom and Focus facility
Thermal option without zoom,
includes black hot/white hot (contact us for
technical information)



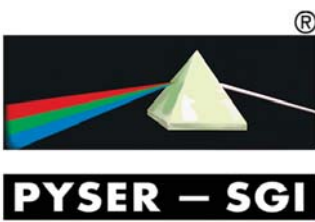
Vertigo assembly



Optional Control Box (3 camera version)

Vertigo is equipped with a UK style
cowling. Others are available on request.

Visit our website on www.pyser-sgi.com for further information on the complete range of products available from Pyser-SGI Limited.



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