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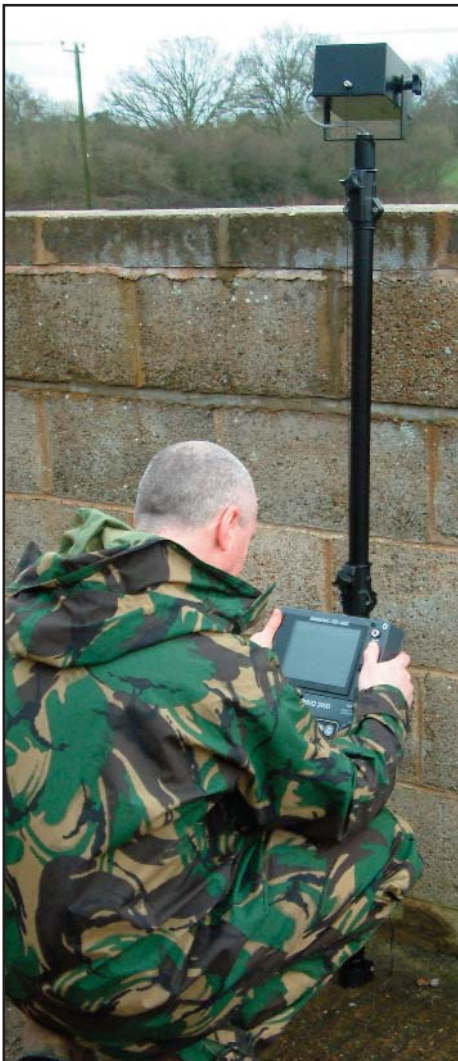
PDNVD 2400

Periscope Day/Night Viewing Device



The PDNVD 2400 Viewing Device is a compact robust lightweight camera based surveillance system, especially configured for rapid deployment surveillance above and around parapets, walls and from Sangers where space is extremely limited, with zoom capability and with zero light detection in excess of 1km.

The system comprises a rugged sealed dual camera housing containing a colour/low light IR enhanced monochrome camera with integral auto focus motorised zoom lens and a thermal surveillance camera with detection capability at 1 km .



The camera housing is fixed to a manual tilt bracket on top of a rugged fully variable height telescopic monopod which extends from 1 metre to 2.4 metres and the simple system allows full pan and tilt operation.

A high resolution rugged LCD monitor is attached to the upper part of the lower section of the monopod and below it is an intuitive camera select and control module containing a battery pack for autonomous operation in excess of 2 hours. An auxiliary power input socket is incorporated for external 12v supply for extended periods of operation.

The simplicity of design and intuitive nature of the controls allows its use by any soldier after only a few minutes training and the unit requires only minimal maintenance. As the system is permanently fully assembled its operation only requires switching it on and video is available instantly using the day camera and after only 4 seconds with the thermal camera.

The complete system is supplied as system-only or in a fully waterproof transit case or Bergen as required.

PDNVD 2400

Technical Specifications

COLOUR CAMERA

Image device 1/4 type EXview HAD CCD
Effective picture elements Approx. 440,000 pixels
Lens 18x optical zoom, focal length 4.1 mm (Wide) to 73.8 mm (Tele), F1.4 to F3.0
Digital zoom 12x (total 216x with optical zoom)
Field of View (Horizontal) 48.0° (Wide) to 2.8° (Tele)
Minimum working distance 3.5 cm (Wide angle) to 80 cm (Tele)
Minimum illumination 0.7 lx (typical) (50 IRE)
S/N ratio More than 50 dB
Electronic shutter 1/1 to 1/10,000 s, 22 steps
Autofocus

THERMAL SURVEILLANCE CAMERA

Uncooled Focal Plane Amorphous Silicon Microbolometer (320 x 240 pixel array)
Spectral Response 7-14µm (filter bandwidth)
Thermal Sensitivity <50mK
Refresh Rate Real-time 9Hz (25Hz on option)
Thermal Imaging System Performance Start-up Time ~ 4 seconds
Contrast/Brightness Advanced Image Processing
Saturation Temperature 1100°F +/-10% with automatic electronic iris
Range to Detect Human Activity up to 1015m
Optics Field of View 12° x 9° fixed focal length (11x digital zoom available on option)
Fixed focus
Video Analog Output 9Hz Frame Rate — PAL (colour)
Input Power ~ 2.0W @ 25°C ambient, 12VDC

CAMERA HOUSING

The cameras are housed in a sealed environmental housing which protects cameras and optics from ambient conditions and mechanical damage and it is fitted with a single military connector for simple removal for maintenance/service.

The housing is held on a robust yoke that will allow manual tilt of the camera head by a cord which allows the operator to maintain his concealed position during surveillance.
Pan function is by simple rotation of the monopod.

MONITOR

The 6.4 inch high resolution colour 320x240 TFT LCD monitor with full on-screen menus is installed within a protective die cast aluminium housing mounted on top of a second rugged aluminium housing containing all batteries and the simple intuitive camera control panel. Ten "C" type normal commercial 1.5v batteries are contained in 2 battery tubes with easy screw, lanyard held watertight battery caps. Battery life is in excess of 2 hours. Both camera outputs are composite PAL video and a video-out socket can be provided if required for live video feed into any compatible recording or transmission device

CAMERA CONTROLS

On/Off and camera select thermal and day colour/low light IR sensitive by single rotary switch
Zoom wide/narrow continuous range by two touch pads (zoom in / zoom out)
Day colour/ monochrome IR enhanced by single touch pad
Thermal polarity change black hot/white hot by single touch pad
A system battery charge level indicator is included.



MECHANICAL

The system allows extension of the camera head to any height between 1m and 2.4m using a robust aluminium three section monopod tubular extension system with a clamping device on each section.
This system keeps the footprint of the product to virtually zero and allows instant setup and removal from the observation point.

Weight (system only) 6 kg
Height folded 106 cm
Width 29 cm
Depth 26 cm

ENVIRONMENTAL

IP 67
Operation -20°C to +55°C
Storage -40°C to +65°C

COLOUR

The standard colour scheme is mid grey and black to suit urban operations but the product can be delivered in olive drab or sand colour as no cost options.

TRANSIT CASE (optional)

Hardigg type or similar
Six Press & Pull Latches
Two Double-layered, Soft-grip Handles
Two Padlockable Hasps
Vortex® Valve
Flush Powerful Hinges
Lightweight Strong HPX® Resin
Watertight
Colour olive drab or black
Interior foam custom cutout

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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