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Defence & Security Products Division

DANOS

Day & Night Observation System

- Rapid Deployable Man Portable System
- Housed inside Ruggedised Airportable Boxes
- Sensors include Day, Night and Thermal Cameras Incorporating Image Fusion Technology
- Variable Speed Head with Motorised Zoom & Focus



DANOS

Day & Night Observation System

The DANOS surveillance observation unit which incorporates Image Fusion Technology as standard is designed to cater for all surveillance requirements in normal to extreme environmental conditions.

DANOS provides short, medium to long range Surveillance Target Acquisition using all 3 sensor technologies with the added benefit of incorporating Image Fusion. DANOS is capable of infinitely variable integration of two or three different sensor technologies at the same time. Remotely powered and supplied ready for use

Standard Specification

Sensor Head: TIU2 thermal camera, 12°, 9° or 6° FOV Horizontally
 Colour Daycam with 22x zoom lens, 21° to 1° FOV Horizontally
 NIC Hypergen or XD4 intensified camera with 22x zoom lens, 41° to 2° FOV Horizontally
 Head support bracket, cabling, tripod and motorised pan/tilt.
 Sensor outstation rechargeable battery pack in hard transit case, with 220-240/12v AC/DC converter.

Flexible cabling 20 metres (extendable) to/from control station.
 MSMS 10.4" LCD display control station/rechargeable battery pack in hard transit case, including all camera, Image Fusion and pan/tilt controls.
 220-240/12v AC/DC converter and 12v DC/DC converter.
 Image Fusion on any 2 cameras and on all three by simple controls
 Full operating instructions and transit cases for the complete installation.
 Operating temperature range -20°C to +50°C
 Environmentally tested to IP66

Camera Options

TIU2 thermal cameras

320x240 Hybrid ferroelectric uncooled staring focal plane array detector
 Spectral range 7 - 14 microns
 NETD .08 degrees C
 Polarity control black/white hot
 Gain automatic/selectable
 Focus motorised

TIU2 75

75mm F1 lens
 Angle of view 12° horizontal
 9° vertical

TIU2 100

100mm F1 lens
 Angle of view 9° horizontal
 6.6° vertical

TIU2 150

150mm F1 lens
 Angle of view 6° horizontal
 4.4° vertical

Night Vision Intensified

Camera NIC

High resolution monochrome CCD, with 17mm-374mm long range zoom lens

17mm-374mm Lens

Angle of view 41°-2° horizontal
 30°-1.5° vertical

XR5, XH72, Gen2+, XD-4, or HyperGen Image Intensifier

Day Camera DC

High resolution colour CCD camera complete with 17mm-374mm long range zoom lens

Angle of view 21°-1° horizontal
 15°-0.75° vertical

Pan/Tilt Positioner

Speeds (degrees/sec):

Pan 0-20°/sec continuously variable
 Tilt 0-7°/sec continuously variable

Operational Angles (°) Nominal

Pan	Tilt
360°	± to be advised (depending on camera configuration)

Backlash (mm) Less than 0.15

Ordering Information

DANOS System of Standard Specification including:

	<i>Part Number</i>
TIU 150/HG NIC/DC	820100
TIU 150/XD4 NIC/DC	820500
TIU 100/HG NIC/DC	820105
TIU 100/XD4 NIC/DC	820505
TIU 75/HG NIC/DC	820110
TIU 75/XD4 NIC/DC	820510

- Gen 2+, XH72 and XR5 Image Intensified cameras available in place of HG/XD-4 specification.
- Radio telemetry and video transmission available to special order.



BS EN ISO 9001 : 2000
 Certificate No FM 30264

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

All goods are supplied under our standard conditions of trade. We reserve the right to amend design and specifications without prior notification



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