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Defence & Security Products Division

VISI Thermal Observation System



Designed specifically for surveillance, the Pyser-SGI VISI thermal observation scope allows 24/7 use. It can be comfortably hand held, or mounted on a tripod, and enables the user to detect humans at almost 3 km and vehicles at up to 7 km.

VISI is available with thermal detectors of either 384x288 or 640x480 resolution and with a choice of optics giving either 3X or 5X basic magnification, horizontal angles of view of either 7 degrees (125 mils) or 12 degrees (210 mils) and detection ranges of up to 2760m (man) and 7000m (vehicle).

Standard Definition models (SD) also have a 2x electronic zoom giving a total of 6X or 10X magnification in addition to the basic 3X and 5X magnifications. High Definition models (HD) incorporate both a 2X and a 4X zoom giving total magnifications of 3X, 6X and 12X (HD 45 model) or 5X, 10X and 20X in the case of the HD 75 version.

Light enough to be hand held but rapidly attached with no tools to any tripod, VISI is operational within eight seconds from switch on. Simple, intuitive push button controls make it an extremely easy unit to use while offering the user a fully featured advanced surveillance tool, including video out & power in.

Large diameter eyepiece optics with very long eye relief make VISI extremely user friendly. Affordable and virtually maintenance free, it is the ideal choice for law enforcement, border protection, public safety, search and rescue, fire fighting and security.

VISI is designed, developed and manufactured in the UK by Pyser-SGI and requires only a UK export licence.

VISI

Thermal Observation System

Technical Specifications

Thermal Image

Detector

High Definition

Pitch 17μ
 Pixels 640x480
 Detector AmSi microbolometer
 Spectral band 7-14μm
 NETD <45 mK @ 20°C ambient and 30°C scene temperature
 Refresh rate 25Hz

Standard Definition

Pitch 25μ
 Pixels 384x288
 Detector AmSi microbolometer
 Spectral band 7-14μm
 NETD <45 mK @ 20°C ambient and 30°C scene temperature
 Refresh rate 25Hz

Display

Advanced OLED
 852 x 600 pixels SVGA
 Monochrome

Optics

Hard coated with anti reflective coatings
 High quality germanium F1.0 objective lens
 45mm or 75mm focal length
 5x magnification (75mm lens models)
 3x magnification (45mm lens models)
Horizontal field of view 75mm lens
 7 Degrees 125 mils HD
 8 Degrees 142 mils SD
Horizontal field of view 45mm lens
 13.7 Degrees 243 mils HD
 12 Degrees 213 mils SD
Focus 2.5 metres to infinity 45mm lens
 5.0 metres to infinity 75mm lens
 Apparent field of view 26 degrees, 462mils
 Fully coated eyepiece lens optics
 Dioptre adjustment +3 to -3
 Eyepiece lens glass diameter 31mm
 Eye relief 50mm

Performances

High Definition (HD)

	75mm lens	45mm lens
Detection:	2760m	1650m
Recognition:	1380m	825m
Identification:	920m	550m

Vehicle (Land Rover size)

	75mm lens	45mm lens
Detection:	7000m	4200m
Recognition:	3500m	2100m
Identification:	2300m	1400m

Standard Definition (SD)

	75mm lens	45mm lens
Detection:	1900m	1140m
Recognition:	950m	570m
Identification:	630m	380m

Vehicle (Land Rover size)

	75mm lens	45mm lens
Detection:	4760m	2850m
Recognition:	2380m	1425m
Identification:	1580m	950m

Controls

By single, simple, intuitive push buttons on right and left side of sight.

Left side

On/Off/NUC (additional NUC facility by remote pressure pad)
 2x electronic zoom - Standard Definition models
 2x and 4x - electronic zoom High Definition models
 Polarity inversion (Black/hot : White/hot)

Right side

Screen brightness

Physical

One piece high strength anodised black aluminium alloy body and lens assemblies.
 Quick release tripod mount.
 Nitrogen purged.

	SD45	SD75
Length mm	185	225
Width mm	76	85
Height mm (inc Tripod mount)	85	94
Weight g	SD 900	SD 1285
	HD 900	HD 1285

Power Supply

4x "AA" type L91 Lithium 1.5V
 or
 4x "AA" Alkaline 1.5V
 or
 4x "AA" Rechargeable 1.2V
VISI Battery life HD45 up to 7 hours
 HD75 up to 7 hours
 SD45 up to 10 hours
 SD75 up to 10 hours
 (with L91/LF1500 type at 21°C)
 External 6v power in by Millspec socket
 Live PAL Composite Video out via same socket

Environmental

Water resistance 20m for 1 hour.
 Operating Temperature -40 to +60 Deg C



Ordering Information

VISI is delivered in its soft black padded pouch, four "AA" Lithium L91 batteries and fully illustrated operating instructions.

Mid Format

Part No	Description
V560-370	VISI SD75
V560-371	VISI SD45

High Definition

Part No	Description
V560-380	VISI HD75
V560-381	VISI HD45

Optional Accessories

560-390	Remote pressure pad NUC switch	560-391	Cable, 6V in/Video out
550-007T	Shuttered eyeguard	FBS-043	Medium hermetic case with custom made cutouts

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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.



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