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Defence & Security
Products Division

MUNSTI

Clip-On In-Line Thermal Sniper Sight

MUNSTI is a state of the art compact, lightweight and high performance uncooled Thermal Imaging clip-on sight for use in front of any day optical sight with magnifications up to 16X and more, making it ideally suitable for sniper weapons, anti-materiel weapons and any weapon where the user wishes to leave the daysight in place.

It allows detection ranges up to 2760m (man) and 7000m (vehicle), allows the firer to attach it instantly by its over-centre throw lever shock absorber base on to the Picatinny rail, and switch on to use within eight seconds without affecting the zero of the day sight.

MUNSTI is available with thermal detectors of either 640x480 High Definition HD or 384x288 Standard Definition SD and a choice of optics giving either 7 degrees (125 mils) or 12 degrees (210 mils) horizontal fields of view.

Affordable and virtually maintenance free, its fully featured simple and intuitive push button controls make it the ideal choice for Special Forces, Police elite units and regular forces requiring the best in night vision sights.

For surveillance purposes only, Standard Definition models incorporate a 2X electronic zoom giving additional fields of view of 3.5 degrees or 6 degrees depending on choice of lens. Similarly High Definition models incorporate zooms of 2X and 4X giving 3.5 and 1.75 degrees or 6 and 3 degrees additional fields of view respectively.

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

MUNSTI

Clip-On In-Line Thermal Sniper Sight

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

High quality germanium F1.0 objective lens
75mm or 45mm focal length
1x magnification

Horizontal field of view	75mm lens	
8 Degrees	142 mils	HD
7 Degrees	125 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
Fully coated rear lens optics
Detachable rear lens shroud

Performances

High Definition (HD)

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

Vehicle (Land Rover size)

Detection:	7000m	4200m
Recognition	3500m	2100m
Identification	2300m	1400m

Standard Definition (SD)

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

Vehicle (Land Rover size)

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/attach overcentre lever shock absorbing Picatinny rail mount.
Nitrogen purged.

MUNSTI		HD75 SD75	HD45 SD45
Length mm		240	200
Width mm		85	76
Height mm		94	85
(inc Picatinny rail mount)			
Weight gm	HD	1517	1132
	SD	1517	1132

Rail

Needs 135mm Picatinny rail length in front of dayscope.

Power Supply

4x "AA" type L91 Lithium 1.5V
or
4x "AA" Alkaline 1.5V
or
4x "AA" Rechargeable 1.2V

MUNSTI Battery life **HD75** up to 7 hours
HD45 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 Milspec socket
Live PAL Composite Video out via same socket

Environmental

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

*Electronic zooms are for surveillance purpose only and must not be used for firing as only the 1x magnification is boresighted to the dayscope.

Ordering Information (All units are 25Hz refresh rate, 9Hz available on request)

MUNSTI is delivered in its soft black or DPM or Sand colour padded pouch complete with clip-on/off rear hood, four "AA" Lithium L91 batteries and full operating illustrated instructions.

High Definition

Part No	Description	
560-360	MUNSTI HD75	NSN 5855-99-732-8504
560-361	MUNSTI HD45	NSN 5855-99-875-7389

Standard Definition

Part No	Description	
560-350	MUNSTI SD75	NSN 5855-99-495-3918
560-351	MUNSTI SD45	NSN 5855-99-471-5300

Optional Accessories

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

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. All values are nominal.

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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