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Defence & Security
Products Division

NEW

IRvis

Ultra compact fusion sight

When only one sensor technology is not enough

IRvis combines both thermal and DAY OPTIC sensors collimated to a single image to offer a fully thermal weapon sight or fully DAY vision weapon sight with the same aiming mark or a fully user selectable fusion of both.

Utilising a High Definition 640x480 17 micron thermal detector and a high quality optical channel, **IRvis** offers the user the optimum mix of 2 technologies to determine precisely the nature and location of any target.

IRvis can be trained on any target and by simply pressing the + or - buttons the level of thermal input can be increased or decreased to allow fine sensor integration.

A choice of 7 reticles and menu driven zeroing makes **IRvis** highly intuitive in the field

IRvis is NON ITAR

- 640 x 480 17μm thermal detector
- 7 user selectable reticles
- Variable fusion by push buttons
- Battery life up to 7 hours
- Over centre lever Picatinny mount
- 2x magnification
- 2x and 4x additional electronic zoom
- Two auxiliary Picatinny rails
- Video out

IRvis Technical Specifications

Thermal Image

Detector
Amorphous Silicon Microbolometer
7-14 microns wavelength
Uncooled
640 x 480 pixel array High Definition
25Hz or 9Hz (optional) refresh rate

Display
Advanced OLED 852 x 600 pixels SVGA
Monochrome

Optics

High quality IR objective lens
Fully coated eyepiece optics
25mm glass aperture
27mm eye relief
Dioptre adjustment -6 to +3
Focal length 35mm
Field of view - Real 18° x 14.5° (320 x 240 mils)
2x magnification*
Field of view - Apparent - 35° (620 x 465mils)
*without using electronic zoom

Visible Day Channel

Visible day channel uses straight through optics with a focal length designed to match thermal channel.

Controls

On/Off	On/Off/NUC By single, intuitive push buttons.
Reticle	Windage and Elevation (Windage and Elevation coordinates are displayed on screen) 0.5 mil per click (windage/elevation) 35mm Reticule choice 7 plus no reticule
Fusion	+/- controls level of thermal input
Zoom	2x and 4x - electronic zoom
Polarity	Polarity inversion (Black/hot : White/hot)
	Battery indication on screen
Power	2 x CR123 Lithium batteries (give up to 7 hours' continuous operation) Single multipin socket for: PAL video out for recording or transmission. External power via battery power module

Environmental

Waterproof	Water resistant to 1m for 30 min
Temperature	Operation -20°C to +55°C Storage -40°C to +65°C

Physical

Length	Height	Width	Weight w/o batteries*
143mm	66mm	133mm	958g

Note: All specifications are nominal

Part No.	Model Type
565-200	IRvis combined thermal/visible weapon sight, Picatinny mount, 640x480 detector and optical channel. 25Hz

IRvis is delivered in a protective pouch, complete with 2 x CR123 Lithium batteries and full pictorial operating instructions.

Accessories for IRvis/IRi2	
550-007	Shuttered eyeguard, NSN 6650-99-789-6513
560-010	Anti-mist filter for eyepiece, NSN 6650-99-731-1262
561-401	Video Out Cable to phono plug
561-409S	External Battery Power Module fed by 6Volts DC
561-410S	6Volts DC Power Supply for 561-409 (UK)
561-411S	6Volts DC Power Supply for 561-409 (EU)
FBS-034	Small Hermetic Case, holds IRvis/IRi2 in its pouch

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We reserve the right to amend design and specifications without prior notification

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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