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**Defence & Security
Products Division**

NEW

IRi2 Ultra compact fusion sight

When only one sensor technology is not enough

IRi2 combines both thermal and image intensified sensors collimated to a single image to offer a fully thermal weapon sight or fully night 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 choice of image intensifier tube up to 2016 FOM Autogated, IRi2 offers the user the optimum mix of 2 technologies to determine precisely the nature and location of any target.

IRi2 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 IRi2 highly intuitive in the field

IRi2 is NON ITAR



- 640 x 480 17µm thermal detector
- Choice of XR5A, Gen3, XD4 , HD and FC tubes
- 7 user selectable reticles
- Image intensifier override
- 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

IRi2 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

Image Intensifier	
FC (low cost), HD High Definition, XD-4, GEN 3 and XR5. XD-4 and XR5 models can also be supplied with Auto Gating and FC, HD, XD-4 and XR5 are available with green or black and white tubes.	

Controls	All by single, intuitive push buttons.
On/Off	On/Off/NUC
Reticule	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 level 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	994g
Note: All specifications are nominal			

TUBE COMPARISON CHART					
Typical Values (Tube manufacturers' data)	FC	HD	Gen 3	XD-4	XR5
Sensitivity (µA/lm)	500	550	700	700	800
Resolution (lp/mm)	45	51	64	64	72
Signal to Noise ratio	19	19	23	23	28
Figure of Merit (FOM) Typical	855	969	1600(max)	1472	2016

Part No.	Model Type
565-300XD4	IRi2 thermal/image intensified fusion sight, 640 x 480 detector and XD-4 tube 25Hz.
565-300G3	IRi2 thermal/image intensified fusion sight, 640 x 480 detector and Gen3 tube 25Hz.
565-300XR5A	IRi2 thermal/image intensified fusion sight, 640 x 480 detector and XR5A tube 25Hz.

All models are delivered in protective pouches, 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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05/09/13 E & OE