

armstrong optical

IR300A Cooled Bi-ocular Thermal Viewer



The **IR300A** bi-ocular thermal viewer is a 3rd generation cooled system incorporating a multiplicity of functions. Based around a cooled 3 - 5 μ m sensor and a dual field of view lens with motorised focus the **IR300A** can be utilised in either a fixed position or can be handheld.

By incorporating a GPS system and electronic compass the **IR300A** is ideal for long range detection in a wide variety of applications. The near field of view (NFOV) detection range for a vehicle is >5km.

Imager:

Detector type	Cooled HgCdTe FPA
Spectral range	3 - 5 μ m
Sensor size	320x256 pixel
NETD	≤ 15 mK

Optics:

Focal length/ f#	75/300mm f/3.1
Field of view	WFOV 7.3 $^{\circ}$ x 5.5 $^{\circ}$ NFOV 1.8 $^{\circ}$ x 1.4 $^{\circ}$

Image presentation:

Video output	PAL, 50Hz
Brightness/contrast	Auto/manual
Polarity	White hot/ black hot
Electronic zoom	X2
Display	OLED viewfinder

Power:

Power supply	220V AC
Power consumption	<25W
Battery operating time	3hrs
Interfaces	RS232

GPS:

Position precision	<3m
Real-time refresh	20Hz

Electronic compass:

Heading precision	$\pm 0.5^{\circ}$
Inclination precision	$\pm 0.2^{\circ}$
Inclination range	$\pm 50^{\circ}$

Environmental specification:

Operating temperature	-40 $^{\circ}$ C to +60 $^{\circ}$ C
Storage temperature	-40 $^{\circ}$ C to +60 $^{\circ}$ C
Encapsulation	Hermetic sealing

Physical:

Size	410 x 158 x 155mm
Weight	2.75kg (w/o battery)