

# ZIR 100

**THERMAL IMAGING DEVICE**



**OPTIX**

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*Z-IR 100 Clip-On Thermal Device can be used as a hand-held or weapon-mounted system for observation, target detection or passive target acquisition during day and night in variety of environment conditions, including fog, rain, snow, smoke, total darkness. Z-IR 100 is an outstanding thermal imager with a great number of functions and perfect optical performance.*

*The sophisticated design of the Z-IR 100 Clip-On Thermal Device eliminates the need to remove the day sighting equipment since the Z-IR 100 mounts directly in line with a standard day optical sight.*

*Such a combination allows the soldier to avoid re-zeroing the rifle every time the sight set up is changed, since the primary sight remains undisturbed. The point of impact remains the same no matter how often or how many times the clip-on is mounted.*

# TECHNICAL CHARACTERISTICS

FOCAL PLANE ARRAY	Type	Microbolometer
	Pixel Count (Resolution)	640 x 480
	Pitch Size	17 $\mu$ m
	Spectral Response	7 $\div$ 14 $\mu$ m
	Thermal Sensitivity (NETD)	< 50 mK@F 1.0
THERMAL IMAGING PERFORMANCE	Brightness / Contrast	Automatic / Advanced Image Processing
	Start-up Time	< 5 sec
	Image Polarity	User Selectable (White Hot / Black Hot)
	Menu	On-Screen Display
	IFOV	0.17 mRad
	NUC	Automatic / Manual
OPTICS	Focal Length of Objective Lens	100 mm
	FOV	6.2°(H) X 4.7°(V)
	F/#	1.25
	Material & Coating	Germanium, Hard Carbon Coating on the External Surface
	Allowing optimal performance at up to 10x optical magnification on the day scope	
VIDEO	Analog Video Output Format	CCIR (PAL, 50 Hz) or RS-170 (NTSC, 60 Hz)
	Digital Zoom	x2, x4
	Viewfinder Luminance	Manual via OSD
POWER	Power Source	2x18650 Li-Ion Rechargeable
	Operating Time	~ 6 Hours Continuous with 2 x 18650 Li-Ion @ 25° C
	Auxiliary Power	External Power Supply Set
ENVIRONMENTAL CHARACTERISTICS	Operating Temperature Range	-30°C to +50°C
	Storage Temperature Range	-50°C to +60°C
	Index of Protection	IP 66, IP 67 optional, Nitrogen Filled
<b>STATIC RANGE PERFORMANCE</b> Calculated for geometrical average (VHxW) NOTE: The distances defined are calculated in geometrical values only, not accounting the atmospheric conditions	Human Detection Range	~ 2640 m
	Human Recognition Range	~ 880 m
	Vehicle Detection Range	~ 6765 m
	Vehicle Recognition Range	~ 2255 m

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