

**OPTIX**



**ZIR 60**

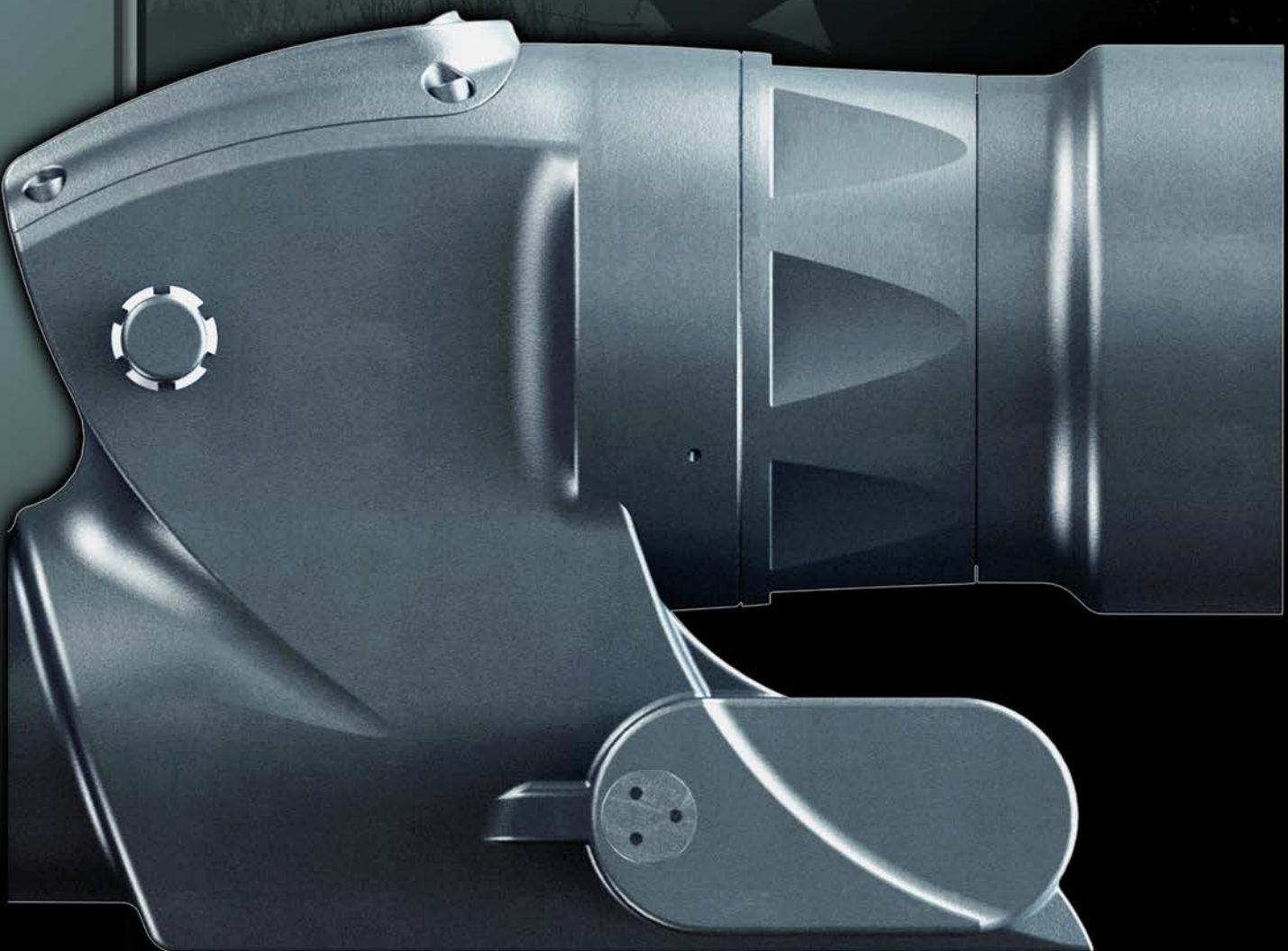
**CLIP ON THERMAL VISION DEVICE**

# ZiR 60

*Z-IR 60 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 60 is an outstanding thermal imager with a great number of functions and perfect optical performance.*

*The sophisticated design of the Z-IR 60 Clip-On Thermal Device eliminates the need to remove the day sighting equipment since the Z-IR 60 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 SPECIFICATIONS

FOCAL PLANE ARRAY	Type	Microbolometer
	Pixel Count (Resolution)	640x480
	Pitch Size	17 $\mu$ m
	Spectral Response	7-14 $\mu$ m
	Thermal Sensitivity (NETD)	<50 mK @ f/1 Lens
THERMAL IMAGING PERFORMANCE	Brightness/Contrast	Automatic and Manual
	Start-Up Time	< 5 seconds
	Image Polarity	User Selectable (White Hot or Black Hot)
	Menu	Realized as On-Screen Display
	Reticles	Different Types Available, Selectable and Adjustable
OPTICS	Focal Length of Objective Lens	60 mm
	FOV (H&V)	10.4°(H) x 7.8°(V)
	Material & Coating of the Objective Lens	Germanium, Hard Carbon Coating of the External Surface
VIDEO	Output Format	CCIR (PAL) or RS-170 (NTSC)
	Digital Zoom	x2, x4
	Viewfinder Luminance	Manual via OSD
POWER	Power Source	2 x 18650 Li-Ion Batteries
	Operating Time	6 Hours with Li-Ion Batteries @ 25°C
	Auxiliary Power	External Power Supply Set
STATIC RANGE PERFORMANCE Calculated for geometrical average ( $\sqrt{H+W}$ ) NOTE: The distances defined are calculated in geometrical values only, not accounting the atmospheric conditions	Detection Range of Human Target (1.7m x 0.5m)	> 1500 m
	Recognition Range of Human Target (1.7m x 0.5m)	> 500 m
	Detection Range of NATO Target (2.3m x 2.3m)	> 3600 m
	Recognition Range of NATO Target (2.3m x 2.3m)	> 1200 m
ENVIRONMENTAL CHARACTERISTICS	Operating Temperature	-30°C to +60°C
	Storage Temperature	-30°C to +75°C
	Shock Resistance	Single Shock - 2000 m/s <sup>2</sup> for 3-5ms Multiple Shocks - 150 m/s <sup>2</sup> for 5-10ms
	Mechanical Vibration	Sinusoidal, 40 m/s <sup>2</sup> , 1 to 80 HZ
	Index of Protection	IP 66, IP 67 optional
PHYSICAL CHARACTERISTICS	Dimensions H x W x L	105 x 97 x 160 mm
	Weight without Batteries	985 g

\* Operational distances are given at levels of 50% success probability and 2°C temperature difference between target and background.

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