

# **C4i** **communication**

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## **C4I-SCU IR** Thermal Binocular



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## Defence & Security, Law enforcement

**C4I-SCU-IR** is a single channel uncooled thermal imaging binocular, designed especially for military and law enforcement personnel for prolonged observation and reconnaissance.

**C4I-SCU-IR** allows target detection and recognition in completely passive mode on short and mid-range distances. The sensitive detector and the intelligent digital video processing provide crisp image at any-time and in all weather conditions.

The additional extra features like image filters and weather type modes optimizes the picture according to the customer needs and according to the changing weather.



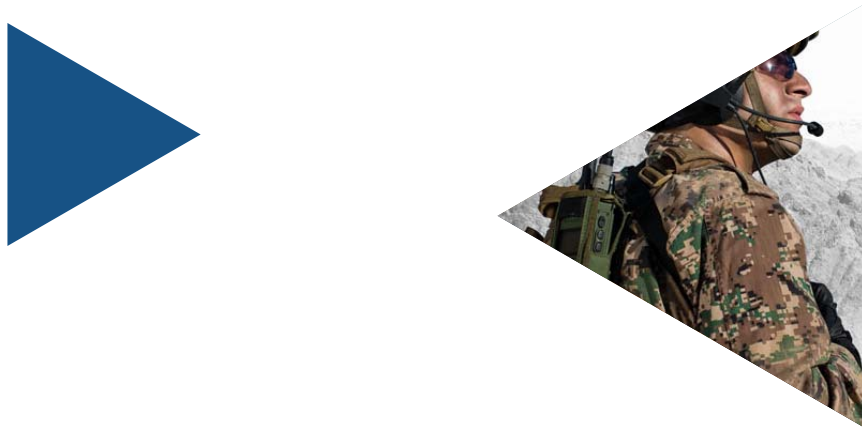
The device is filled with Nitrogen N<sub>2</sub> against steaming of the internal optical and optoelectronic components and has scratch resistant carbon coating of the objective lens.

**C4I-SCU-IR** has ergonomic design enabling ease of use and comfortable handheld observation as well as tripod mount for prolonged reconnaissance.

**C4I-SCU-IR** offers also extended features such as:

- Integrated GPS for precise positioning of the device;
- Built-in Wi Fi connection for remote wireless observation;
- Cable connection for remote wireless observation.

	TECHNICAL CHARACTERISTICS	C4I-SCU-IR
FOCAL PLANE ARRAY	Type	Microbolometer
	Pixel Count(Resolution)	640x480
	Pitchsize	17 μm
	Spectral Response	7 ÷ 14 μm
	Thermal Sensitivity (NETD)	< 50 mK@ F/1.0
THERMAL IMAGING PERFORMANCE	Brightness/Contrast	Automatic/Advanced Image Processing
	ImagePolarity	User Selectable White Hot/ Black Hot
	Focus	Manual
	Menu	OSD
	Start-up time	<10 sec
	IFOV	0.17mRad
	NUC	Automatic / Manual
	MTBF	> 6000 hours
OPTICS * Given values are nominal. Actual values could be within ±5% tolerance	FocalLength of Objective Lens	100mm
	FOV	6.2°(H) X 4.6°(V)
	F/#	1.25
	Material and coating	rmanium hard carbon coating on the external surface
	Eyepiece diopter adjustment	-4 to +3dpt.
VIDEO	Analog Video Output Format	CCIR (PAL) or RS-170 (NTSC)
	Snapshot function	Yes
	Digital zoom	x2, x4
OPTIONAL FEATURES	Remote control and visualization	Remote control through RS-USB interface and analogue video output for visualization
	Wireless video streaming and remote control	Built-in Wi-Fi module
	GPS	Built-in GPS
POWER	Power Source	4x 18650 Li-Ion rechargeable batteries
	Operating time	> 4 hours continuous with 4 x 18650 Li-Ion rechargeable batteries.
	Auxiliary Power (optional)	External Power Supply Set
STATIC RANGE PERFORMANCE  *NOTE: The distances defined are calculated in geometrical values only human (1.8x0.5m), vehicle (2.3x2.3m), not accounting the atmospheric conditions.	Human Detection Range*	>2600m
	Human Recognition Range*	>930m
	Human Identification Range*	>460m
	Vehicle Detection Range*	>6700m
	Vehicle Recognition Range*	>2200m
	Vehicle Identification Range*	>1100m
ENVIRONMENTAL CHARACTERISTICS *Environmental tests are according to MIL-STD-810G	Operating TemperatureRange	-30°C to +50°C
	StorageTemperatureRange	-50°C to +60°C
	Mechanical and climatic tests	According to MIL-STD-810G
	IPProtectionrating	IP 66/IP 67 optional
PHYSICAL	Weight with batteries	<2500g
STANDARD ACCESSORIES	Tripod adapter	Tripod mountable



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