Handheld Thermal Binoculars
384 x 288 Uncooled FPA Detector

built in flash memory
and video output

IR2000
Thermal Imaging

Portable, easy operation

With advanced uncooled FPA infrared detector 384x288 pixels, thermal imaging binoculars features easy operation and strong environment adaptability, it is ideal for applications such as surveillance, monitoring, suppress smuggling, search as well as forest fire protection and etc.

Weather conditions: 25℃, 1atm, visibility 10Km, 60%RH(Narrow FOV)
Object size 2.3 × 2.3m, Max. detect distance 1800m
Object size1.7 × 1m, Max. detect distance 1000m

Note: detect distance relater to size of object, heat grade lens specs, weather condenser

High quality binocular OLED display

Professional big size lens for long distance observation

Interface

IP67 encapsulation

Parameter

Item		
Detector characteristics	Detector type	Amorphous Silicon micro-bolometer
	Array size/format	384×288
Image manage	Field of view/min focus distance	10.3°× 7.7°/5m
	Spatial resolution(IFOV)	0.47mrad
	NETD	≤60mk@30℃
	Frame rate	50Hz
	Focus	Automatic/manual electric focus
	Spectral range	8-14μm
Image display	Display	Bi-ocular OLED display (800×600, brightness and contrast adjustable)
Thermal image adjust	Brightness/Gain adjustment	Auto/Manual
	Image polarity	Hot black/hot white
	Electronic zoom	2X
	Noise reduction	Yes
	Image enhancement	Yes
	Calibration	Auto/manual
	Crosshair	On/off
Image storage	Storage card	Built-in flash memory, up to 100 images
	File format	JPEG
Power supply	Battery type	Li-ion , rechargeable
	Battery operating time	More than 3 hours continuous operation
	Charging system	Intelligent charger
	External power	10~15V DC
	Power consumption	≤4.5W (Normal operating at 25℃)
	Auto standby	Sensitive
Environment	Operating temperature	-30℃-+50℃
	Storage temperature	-40℃- +60℃
	Encapsulation	IP67
Physical characteristics	Weight	≤1.54Kg
	Dimensions	263 mm×127 mm×114mm
Interface	External DC input	Yes
	Video output	PAL
	USB	Image measurement data transfer to PC
	Remote control interface	RS422

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