

Handheld Infrared monocular observation Telescope

ThermalTronix
TT-1230S



TT-1230S — 24-hour middle range infrared telescope

TT-1230S Handheld monocular observation Infrared Telescope uses un-cooled FPA micro-bolometer, with features of small volume, light weight, durable structure, easy operation and storable images. It can work under different severe environment to realize 24-hour detection, smuggling suppression and exact search.



384×288 pixel



50Hz live image



One-handed operation /
Easy to carry



1.8m drop resistant



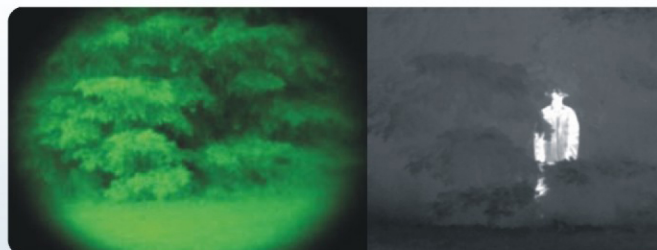
Image capture
& store



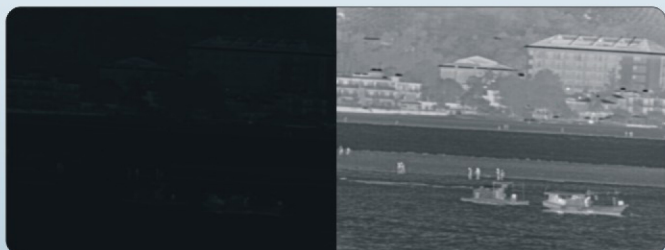
OLED monocular monitor
Resolution 800*600



Daylight image VS Thermal image in fog



Shimmer image VS Thermal image



Normal image VS Thermal image in total darkness



Laser image VS Thermal image





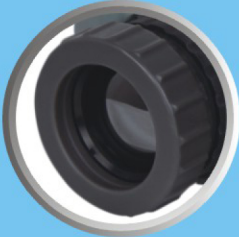
TT-1230S

Drop-resistant
& small volume



- Socket of power, video and debugging
- 800x600 HD OLED monocular monitor
- Integrated lens cap

Optional Lens



18mm



37mm



- 2G Micro SD
- Battery



Tripod interface



EXCELLENT IMAGE QUALITY
384 x 288 Pixel

ThermalTronix TT-1230S

Technical Parameter

	Items	TT-1230S-18-NVMB	TT-1230S-37-NVMB
Detector characteristics	Detector type	Un-cooled FPA micro-bolometer	
	Array size/format	384x288	
Image characteristics	Field of view/min focus distance	29.9°x22.6°	14.8°x11.1°
	Spatial resolution (IFOV)	1.36mrad	0.67mrad
	Thermal sensitivity	≤0.06°C@30°C	
	Frame frequency	50/60Hz	
	Focus	Manual	
	Zoom	2x	
	Spectral range	8-14μm	
Image display	Display	800x600 HD OLED monocular screen	
	Image polarity	White/Black hot	
Image storage	Storage card	2G Micro SD card	
	Storage mode	Manual	
	File format	JPEG/MPEG4	
Thermal image operation	Power key	On / Off switch	
	Brightness key	5 optional cycle levels	
	Zero key	Manual calibration	
	Functional key	Short press for E-zoom, long press for polarity shift	
	Storage/ Record key	Capture / record	
Power source	Battery type	Li-Ion, rechargeable	
	Battery operating time	3 hours continuous operation	
	Battery charging mode	Special designed, random charge	
	Power saving	10-15V DC	
	External power	<3.5W	
Environment	Operating temperature	-20°C- +50°C	
	Storage temperature	-40°C- +60°C	
	Humidity	≤90% non-condensing	
	Encapsulation	IP67	
	Drop test	1.8M, IEC68-2-32	
	Shock-resistant	25G, IEC68-2-29	
Physical characteristics	Anti-vibrated	2G, IEC68-2-6	
	Weight	<900g	
	Dimension	139x64x163mm	139x64x172mm
Interface	Power interface	Yes	
	Video output	Yes	
	USB	Image, measurement data transfer	

▲ The information contained in this document is subject to change without notice

TT-1230S Observation Distance

Weather condition: 25°, 1atm Visibility: 10km, 60%RH

Note: Detection distance will be affected by the size and temperature of the object, plus the lens configuration and the weather condition.

TT-1230S(18mm lens)

Human (1.7x0.5m)



Vehicle (2.3x2.3m)



TT-1230S(37mm Lens)

Human (1.7x0.5m)



Vehicle (2.3x2.3m)



Search & Rescue



Aquaculture surveillance



Residence safety observation



Jungle search



Shore surveillance



Road surveillance

Intellisystem Technologies S.r.l.

Via Augusto Murri, 1 - 96100 Siracusa

Phone +39 (0)931-1756256 / +39 (0)2-87167549 - Mobile (+39) 335 1880035
em@il: info@intellisystem.it WEB: <http://www.intellisystem.it>