

MULTI-FUNCTION THERMAL BINOCULAR



MFTB 640 integrates with uncooled thermal imager, visible camera, GPS, electronic compass, an eye-safe laser range finder. Can be used for target searching, locates the target's position, and take a photo on earth, sea surface, in forest. It's rugged and portable.

Application

Border Security/Law Enforcement/Patrol/Mission

Features and Benefits

- 640x512 high resolution uncooled detector can be combined with high zoom visible (30X OPTICAL ZOOM) to search, identify the target;
- Built-in laser range finder, electrical compass and GPS, can have self-localization and target location;
- With the integrating function of taking photo, video and reviewing, which can be output by USB;With external GPS, and two-way Wi-Fi function;
- Binocular display, can be contacted with external display device.

Specification

Item	Main technical data				Remark
Working Range	Human(1.8m×0.5m)		Vehicle(2.3m×2.3m)		
	Detection Range	>2km	>3.5km		
	Recognition Range	>1km	>1.8km		
Infrared Thermal Imaging Camera	Focus	75mm			Optional Magnify lens 1.5X
	FOV	10.3°×8.3°			7.1°×4.2°
	Detector Type	VOX			
	Array Size	640×512/ 12um			
	Spectral Respond	7~14um			
	NETD	≤35mK			@F1.0,300K
	Frame rate	50Hz			
Visible Camera	Focus	6mm~216mm continues; x36 optical zoom;x32 digital zoom;			
	Angle of View (D, H, V)	Wide	63.31°	56.5°	33.63°
		tele	2.44°	2.12°	1.19°
	Image Sensor	1/2" Sony			
	Pixel size	3.5um			
	Active Pixels	1920x1080			
	S/N Ratio	More than 50dB			
Frame Rate	50Hz				
Image Video Management	Display Type	0.6"Color OLED screen/800 x600 pixels			
	Oled Resolution	1024x768			
	Image color	Whitehot,Blackhot& Pseudo-color			
	Brightness	Adjustable via Menu			
	Contrast	Adjustable via Menu			
	DDE	Adjustable via Menu			
	Calibration	Auto Manual Supported			
Laser Range	Eye Safety	Class 1,eye-safe			
	Wavelength	1535nm			

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Item	Main technical data		Remark
Finder	Vehicle-size NATO target, 2.3 x2.3m	5km	
	Human-size NATO target, 1.0mx1.0m	2km	
	Distance measurement accuracy (m)	±1m	
GPS	Accuracy	±5m	
Compass	Azimuth accuracy	1°	OPTIONAL ≤0.5°
	angle of pitch accuracy	1°	OPTIONAL ≤0.3°
WIFI	Built-in		
Target location	accuracy	±10m (<1km) ,±20m (1km)	
Video Storage	Built-in 16GB SD card, no less than 9000 compress picture(JPG) and no less than 2h video(AVI)		
Power	Continuous working time	>6h	
	Power input	DC12V adapter, voltage input range12V~32V	
Interface (LEMO connector)	Power	DC12V adapter	
	Video out	VGA	
	Data	USB2.0	
	Control interface	Rs232	
Environment Parameters	Working Temperature	-40℃~+60℃	
	Seal	IP67	
Physical Characters tics	Weight	<1.8kg	
	Size	320mm×265mm×110mm	

Drawing size

