MUTI-FUNCTION BINOCULARS

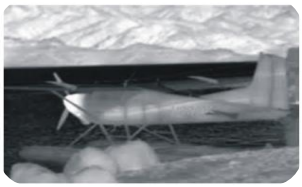
JV-MFB610-5012 is a multi-purpose reconnaissance system, advanced hand-held, fully integrated muti-function thermal imager binocular, which allows the user to detect and located target. It can get the coordinates and directions of the targets in day and night with thermal image or day light Camera. It equipped with a latest UN-cooled thermal imager, eye safe laser range finder, integrated GPS/GNSS , digital magnetic compass (DMC) and visible light camera. The system provides silent operation, advanced target location and image storage capability to work well in a wide variety of battlefield conditions.

1.Feature

- High resolution**: The 640 x 512 array size provides clear thermal imaging images, which helps to identify targets more accurately.
- Wide Spectral Range**: The detector has a spectral range of 8 to 12μm, which is suitable for a variety of environmental conditions, and is able to work effectively under different temperatures and lighting conditions.
- Excellent detection performance**: NETD ≤ 40mK (@25° C,F#1.5) means that the camera is able to detect very small temperature differences, making it suitable for high precision temperature monitoring.
- Flexible Zoom Function**: The E-Zoom function supports 1~4x zoom, which enhances the ability to observe from a distance, making it suitable for a variety of application scenarios, such as security monitoring or wildlife observation.
- Including laser indicator light

Applications



2.Technical parameter

Parameters / Model	JV-MFB610-5012
Detector Type	Un-cooled VOx FPA
Array Size/Resolution	640×512
Spectral Band	8～12μm
Detector Pitch	12μm
Frame Rate	50Hz(PAL)
Polarity	White hot/Black hot （pseudo-color）
NETD	≤40mK@25℃,F#1.5
Contrast/Brightness	Auto/Manual
Image Processing	
Image Denoise	Digital filter
Image Enhancement	Digital Detail Enhancement
E-Zoom	1~4×
Infrared Optical	
Focus mode	Motorize Focus
IR Lens	f=100mm, F# 1.5
Field of view	6.2°×4.7°
Focus Range	8m～∞
Micro Display	2×1280×960 OLED
Eyepiece Magnification	10×
Day Light Camera	
Sensor	Colour CMOS

Resolution	2688x1520
Focal length	50mm
Horizontal FOV	20°
Laser Range Finder	
Wave Length	1.54μm Class 1(Eye safety)
Range distance	50m～12000m(For building) 10000m(For vehicles) 6000m(For person) Test conditions: visibility ⩾17km target reflectivity ⩾30%
Accuracy	< ±2m
Accuracy Rating	> 98%
Repetition Rate	1-10HZ
Laser Target Marker	650nm(visible) or 850nm(night vision):depend on requirement
Thermal Imaging Observation Distance	
Human(1.7m*0.5m)	Detection:3.6km Recognition:1.0km
Vehicle(7.6m*4.5m)	Detection:9.6km Recognition:3.3km
GPS /GNNS	
Accuracy	CEP< 2m
WIFI	
Modules	AP/STA
Distance	⩾20m
Digital Magnetic Compass	
Azimuth	<±0.8° (RMS)
Pitch	<±0.2° (RMS)
Photo/Video Storage	
Photo snap	JPEG
Video recording	MP4
Recording storage	64Gb
Video data output	High speed USB2.0
Power Supply	

Battery	3×18650(Rechargeable)
Average Power	<5W (Observation mode)
Operating Time	≥ 8hours (Observation Mode)
Environmental	
Protect standard	MIL STD 810F
Operating Temperature	-30℃～+55℃
Storage Temperature	-40℃～+60℃
Humidity	5%~95%(Non-Condensing)
Vibration	Sweep frequency: 5-200-5Hz,Acceleration 2.5g
Impact	10g/11ms Half sine wave
Physical parameters	
Dimension （mm）	253×242×97 （L×W×H）
System weight	~2Kg
Suitcase Dimension (mm)	460×350×180 （L×W×H）

3.Dimension