

# APM Night Vision Binocular MFB75

The MFB75 multi-function binocular is an intelligent observation device integrating infrared, low-light and visible light sensor. It has a laser pointer and laser range finder alongside GPS and a digital compass to provide quick and accurate target location.

It is ideal for forward observation, border surveillance and target acquisition. The MFB75 also offers image fusion to allow for detailed images day or night. These images or videos can be stored onboard the device, all this in a device weighing less than 2kg.

## Features

- Thermal Channel 640×512, 12μm
- Color Day Channel 2400×1920, 5.0 MP
- Low Light Level Channel 800×600, 8μm
- Image Fusion
- Laser Rangefinder 1550nm
- Location Module GPS Build in
- Digital Magnetic Compass
- Laser Pointer 830nm, 5mW
- Display HD 1280×1024 OLED
- Weight 2.0kg (With Battery)
- Operating Time ≥10h

## Technical Specification MFB75

Item	Infrared Channel	Low Light Channel	TV Channel
<b>Resolution</b>	640×512, 12μm	800×600, 8μm	2400×1920, 5.0 MP
<b>Spectral Band</b>	8~14μm	0.4~1.1μm 0.001lux	0.4~0.63μm
<b>FOV</b>	6.1°×4.8°	6.8°×5.5°	12.5°×10.0°~ 3.9°×3.1°
<b>Infrared image mode</b>	White Hot/ Black Hot/ Rainbow		
<b>Fusion image mode</b>	Black and White Fusion/ Desert Fusion/ Jungle Fusion/ Ocean Fusion/ Urban Integration/ Snow Fusion		
<b>Visible light mode</b>	Normal Mode/ Fog-through Mode		
<b>Laser Rangefinder</b>	Eye safe : 1535nm Max Measuring Range : ≥5km (human) 6km (car) Measuring Accuracy: 2m		
<b>Location Module</b>	Location Mode : GPS Horizontal Location Accuracy (CEP) : 3m		

	Elevation Location Accuracy (PE) : 5m		
<b>Digital Magnetic Compass</b>	Azimuth Measurement Range : 0°~360° Azimuth Measurement Accuracy : 0.2° (RMS) Pitch Angle Measurement Range : -90°~+90° Pitch Angle Measurement Accuracy : 0.2° (RMS) Inclination Angle Measurement Range : -180°~+180° Inclination Angle Measurement Accuracy : 0.3° (RMS)		
<b>Laser Pointer</b>	Wavelength : 830nm Power : 5mW Security level Class IIIA		
<b>Display</b>	1280×1024 OLED		
<b>Storage</b>	64GB 10000 JPG&4h AVI		
<b>Ocular Lens Diopter</b>	-4~+4		
<b>Weight</b>	≤2.0kg(With Battery)		
<b>Operating Time</b>	≥10h		
<b>Dimension</b>	198×210×105mm		
<b>Interface</b>	External Power In/USB/PAL/RS232 HDMI WIFI		
<b>Operating Temperature</b>	-40°C~+55°C		
<b>Storage Temperature</b>	-55°C~+70°C		
<b>Protection Level</b>	IP67		
<b>Operation Distance</b>		<b>Infrared mode</b>	<b>Visible light mode</b>
<b>Human(1.7*0.5m)</b>	Discern Range	850m	3000m
	Detection Range	1500m	4500m
	Identify Range	4500m	8000m
<b>Car(2.3*2.3m)</b>	Discern Range	1000m	5000m
	Detection Range	2000m	6000m
	Identify Range	4000m	10000m