

MSB-8

ARCHER-LPP MSB-8, objective 75 mm, stationary



MULTISENSOR BINOCULAR MSB-8

Multisensor binocular ARCHER-LPP MSB-8 is a specialized three-channel system designed for surveillance, observation of areas, and target acquisition in limited visibility conditions day and night.

The device is designed for military and security operations for infantry, special forces, intelligence gathering, infrastructure, and border surveillance.

It includes a digital day channel and an uncooled thermal imager that provides crisp images simultaneously in the visible and long-wave IR spectrum. It makes the binocular indispensable for various applications and gives greater situational awareness for nighttime scenarios.

The ARCHER-LPP MSB-8 is also equipped with a compact laser rangefinder of 1550 nm range, ballistic calculator, GPS and magnetic compass, enabling accurate target geolocation.

A binocular has two built-in colour high-resolution microdisplays and eyepieces with diopter adjustment and the ability to adjust the distance between the eyes. Several set colour schemes allow choosing the necessary display option depending on the tasks performed.

The multisensor binocular ARCHER-LPP MSB-8 can be used as a standalone hand-held unit or as a system mounted on a tripod or a pan-and-tilt platform, for example, for surveillance in a given sector.

FEATURES

- › USB interface for programming and device control.
- › 2x, 3x, 4x digital zoom.
- › Integrated laser rangefinder.
- › Ballistic computer
- › Built-in compass and accelerometer.
- › Sensitivity settings of the detector.
- › Different colour schemes for image refinement.
- › Built-in video module.
- › Manual and automatic calibration of the detector.

DELIVERY SET

- › Multisensor binocular ARCHER-LPP MSB-8
- › AA-type rechargeable batteries – 6 pcs.
- › Charger 220V, Vehicle charger 12V.
- › USB cable, Neck strap, User's manual, Case, and Bag.
- › Optional: Redundant power supply RBP-8.



THERMAL IMAGING DEVICES

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TECHNICAL CHARACTERISTICS

THERMAL CHANNEL	
DETECTOR	Uncooled VOx
RESOLUTION	640 x 512
PIXEL SIZE	12 μm
WAVELENGTH	7.5-13.5 μm
OBJECTIVE	75 mm
F NUMBER	F/1.0
FIELD OF VIEW	8.3° x 6.4°
FOCUSING RANGE	5 m ± ∞

ELECTRONICS	
FRAME RATE	9/25 Hz (PAL) 8/30 Hz (NTSC)
VIDEO OUTPUT	PAL or NTSC / HDMI
DISPLAY	AMOLED, 800 x 600
INTERFACE	USB, RS422, BLE
VIDEO RECORDING	MJPEG 30Hz , 64 GB

RANGEFINDER	
MAX. DISTANCE	Up to 2500 m
WAVELENGTH	1550 nm, Eye safe, Class I
ACCURACY	Less than 2 m

DAY CHANNEL	
DETECTOR	High sensitivity 1/2.8"
RESOLUTION	1980 x 1080 px
FOCAL LENGTH	5.6 – 122 mm
HORIZONTAL FOV	47.6° to 2.99°(full zoom)
FOCUS & ZOOM	Motorized

OPERATING PARAMETERS	
STARTING TIME	30 sec
TEMPERATURE RANGE	-30°C ± +55°C
OPERATING TIME, NO LESS THAN	4.5 h
OPERATING TIME FROM REDUNDANT POWER SUPPLY, NO LESS THAN	8 h
DIMENSIONS (L X W X H)	261 x 205 x 104 mm
WEIGHT	2.84 kg
PROTECTION CLASS	IP67

GPS & DMC	
GPS	Multi-band GNSS receiver. high precision
DMC	High precision digital magnetic compass

GPS and built-in compass data provide real-time integration with maps

MAN SIZED TARGET

(75 mm objective) Under ideal conditions; 12 μm; Johnson's Criteria @ 50% probability

Detection	- 3650 m	<div style="width: 100%; height: 10px; background-color: #8B733D;"></div>
Recognition	- 910 m	<div style="width: 25%; height: 10px; background-color: #8B733D;"></div>
Identification	- 450 m	<div style="width: 12.5%; height: 10px; background-color: #8B733D;"></div>



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