

TGX-8

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



THERMAL IMAGING BINOCULAR TGX-8

Thermal imaging binocular ARCHER-LPP TGX-8/75 is an ultramodern compact optical device designed for monitoring and observing areas in limited visibility conditions: poor lighting, smoke, fog, and objects hidden by vegetation or merged with underlying terrain. A distinctive feature of this binocular is an integrated compact laser rangefinder of 1550 nm that accurately measures distance on the distant range.

The high-performance capabilities of the optical system, an extended set of functions and the ergonomic design of ARCHER-LPP TGX-8/75 make it an indispensable device for a wide range of applications.

The device is equipped with a highly sensitive passive receiver of a far infrared band (LWIR) with resolution and sensitivity within 20-30 mK. The 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.

An optical circuitry of ARCHER-LPP TGX-8/75 provides 3x optical magnification (using a detector with 640 x 512 resolution).

The device's display indicates operation modes, device status, and battery discharge. There are also modes of brightness and contrast control.

The device is equipped with proximity sensors that much reduce the risk of disclosure.

ARCHER-LPP TGX-8/75 design comes in a shockproof, waterproof plastic housing with conveniently arranged

controls. Power is supplied via 6 AA-type batteries (lithium or rechargeable batteries).

Due to the high-tech electronics unit, excellent functional capacities of the device are realized by minimal dimensions and power consumption.

FEATURES

- USB interface for programming and device control.
- 2x, 3x, 4x, 6x digital zoom.
- Sensitivity settings of the detector.
- Different colour schemes for image refinement.
- Integrated laser rangefinder.
- Built-in compass and accelerometer.
- Built-in video module.
- Manual and automatic calibration of the detector.

DELIVERY SET

- Thermal imaging binocular ARCHER-LPP TGX-8/75
- 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

DETECTOR	
TECHNOLOGY	Uncooled VOx Microbolometer
RESOLUTION	640 x 512
PIXEL SIZE	12 μm
OPERATING WAVELENGTH	7.5-13.5 μm
OPTICS	
OBJECTIVE	75 mm
OBJECTIVE F NUMBER	F/1.0
FIELD OF VIEW	8.3° x 6.4°
FOCUSING RANGE	5 m ± ∞
RANGEFINDER	
MAX. DISTANCE MEASURED BY LRF	3500 m
LRF WAVELENGTH	1550 nm

ELECTRONICS	
FRAME RATE	9/25 Hz (PAL) 8/30 Hz (NTSC)
VIDEO OUTPUT	PAL or NTSC, programmed
DISPLAY	AMOLED, 800 x 600
INTERFACE	USB
OPERATING PARAMETERS	
STARTING TIME	4 sec
TEMPERATURE RANGE	-30°C ± +55°C
OPERATING TIME, NO LESS THAN	5 h
OPERATING TIME FROM REDUNDANT POWER SUPPLY, NO LESS THAN	8 h
DIMENSIONS (L X W X H)	220 x 132 x 86 mm
WEIGHT	1.3 kg
PROTECTION CLASS	IP67

MAN SIZED TARGET

(75 mm objective)

Detection	- 3650 m	
Recognition	- 910 m	
Identification	- 450 m	

Under ideal conditions; 12 μm; Johnson's Criteria @ 50% probability



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