

TMQ-19

ARCHER-LPP TMA-19, objective 19 mm, helmet mounted



THERMAL IMAGING MONOCULAR TMQ-19

ARCHER-LPP TMQ-19 is a digital ultra-compact thermal imaging device.

Small dimensions of this device allow comfortable use of the monocular, having set it on a headgear or helmet. The device is used by emergency services and special units in urban conditions or on short distances indoors.

The device ARCHER-LPP TMQ-19 is equipped with a lens of focal length of 19 mm or 20 mm, focused in the range from 10 m to infinity.

An optical circuitry of ARCHER-LPP TMQ-19 provides 0.5x digital zoom (using a de-tector with 640 x 512 resolution).

Operation modes, device status, battery discharge are indicated on the display of the device. There are also modes of automatic and manual brightness and contrast control.

The design of ARCHER-LPP TMQ-19 comes in a shockproof waterproof plastic housing with conveniently arranged controls. Power is supplied via 1 CR123 battery. There is also an option to connect an external power supply.

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

ARCHER-LPP TMQ-19 is designed for tasks when minimal weight and dimensions are crucial. Meanwhile the monocular TMQ-19 is on a level with other models both by functional characteristics and by image quality.

FEATURES

- > USB interface for programming and device control.
- > 2x, 4x digital zoom.
- > Sensitivity settings of the detector.
- > Different colour schemes for image refinement.
- > Manual calibration of the detector.
- > Option to connect an external power supply.
- > Analog video output with the possibility of switching off.

DELIVERY SET

- > Thermal imaging monocular ARCHER-LPP TMQ-19/20.
- > Video/charge adapter.
- > 1 CR123 battery.
- > Hand strap, User's manual, Case, and Bag.



THERMAL IMAGING DEVICES

TMQ-19

ARCHER-LPP TMA-19, objective 19 mm



TECHNICAL CHARACTERISTICS

DETECTOR

TECHNOLOGY	Uncooled VOx Microbolometer
RESOLUTION	640 x 512
PIXEL SIZE	17 μ
OPERATING WAVELENGTH	7.5-13.5 μ m

OPTICS

OBJECTIVE	19 mm
OBJECTIVE F NUMBER	F/1.1
FIELD OF VIEW	32° x 26°
FOCUSING RANGE	10 m \pm ∞
EYE RELIEF	50 mm
DIOPTRER CORRECTION	-6 \pm +2

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	3 sec
TEMPERATURE RANGE	-30°C \pm +55°C
OPERATING TIME, NO LESS THAN	2 h
OPERATING TIME FROM REDUNDANT POWER SUPPLY, NO LESS THAN	10 h
DIMENSIONS (L X W X H)	95 x 48 x 50 mm
WEIGHT	0.2 kg
PROTECTION CLASS	IP67

MAN SIZED TARGET

(19 mm objective)

Detection	- 950 m	
Recognition	- 235 m	
Identification	- 125 m	

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



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