

TSA-10 TSA-11

ARCHER-LPP TSA-11, objective 50 mm, mounted on a rifle



THERMAL IMAGING SIGHTS TSA-10, TSA-11

ARCHER-LPP TSA-11 is the newest sight specially designed for using small tactical arms. The peculiarity of the thermal sight is its small size and objective with a fixed focus that provides a sharp image from 25 m to infinity. However, the device has maintained all ARCHER-LPP sights' operational advantages, like flexible configuration mode, editable target reticles, and profiles for different types of arms and ammunition. The device has a mechanical selector switch, which allows not only to switch the device „by touch“ but immediately select one of the preset operating modes. The device can be equipped with a 40 mm objective with fixed focus or a 50 mm objective with a manual focusing mechanism.

The sight is equipped with a highly sensitive passive receiver of a far infrared band (LWIR) with a sensitivity of less than 30 mK.

A built-in colour high-resolution microdisplay and an eyepiece with diopter adjustment provide a high-quality image of aiming reticles and a minimal movement step during adjustment fire. Aiming reticles are implemented in automatic reverse functions for saving reticles' contrast and automatic scaling depending on the enlargement range.

ARCHER-LPP TSA-11 is equipped with proximity sensors and a serial interface for programming and remote control. A built-in recording module allows to take photos and shoot video in several modes. The device has a multipurpose jack for charging, video output and programming.

The design comes in a shockproof, waterproof plastic or aluminium housing with pumped inert gas resistant to corrosive environment. Conveniently arranged controls are protected from accidental use. Batteries are charged in a device with the help of a built-in recharger.

There is also a mounting for installing additional equipment and a hand strap for comfortable and secure holding of the device while using it as an observation instrument.

FEATURES

- Option of downloading target reticles with automatic reverse and scaling.
- Ballistics table.
- Electronic level.
- Profiles for different arms and ammunition.
- Built-in photo- and video module.
- USB interface for programming and device control.
- 1.5x optical magnification.
- 2x, 3x, 4x, 6x digital zoom.
- Different colour schemes for image refinement.
- Operative adjustment of sensitive sensor parameters with the help of preset modes.
- A proximity sensor for switching a display off while removing user's face from the device.
- Manual and automatic calibration of the detector.

DELIVERY SET

- Thermal imaging sight ARCHER-LPP TSA-10 / TSA-11
- AA-type rechargeable batteries – 4 pcs.
- Charger 220V, Vehicle charger 12V.
- USB cable, Cable adapter, User's manual, Case, and Bag.
- Optional: Redundant power supply RBP-8.



THERMAL IMAGING DEVICES

**TSA-10
TSA-11**

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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	50 mm
OBJECTIVE F NUMBER	F/1.0
FIELD OF VIEW	12.5° x 10.0°
FOCUSING RANGE	25 m ÷ ∞
EYE RELIEF	50 mm
DIOPTRER CORRECTION	-6 ÷ +2

BALLISTIC COMPUTER	
MAX. MEASURABLE DISTANCE	1500 m
DRAG FUNCTIONS	G1, G7, multi BC or User-defined
CALCULATION TIME	200 msec

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	7 sec
TEMPERATURE RANGE	-30°C ÷ +55°C
OPERATING TIME, NO LESS THAN	4 h
OPERATING TIME FROM REDUNDANT POWER SUPPLY, NO LESS THAN	8 h
DIMENSIONS (L X W X H)	245 x 96 x 78 mm
WEIGHT	0.96 kg
PROTECTION CLASS	IP67

RANGEFINDER	
MAX. DISTANCE MEASURED BY LRF	800 m
LRF WAVELENGTH	905 nm

MAN SIZED TARGET
(50 mm objective)

Detection	- 2430 m	
Recognition	- 600 m	
Identification	- 300 m	

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



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