THERMAL IMAGING DEVICES

TSA-9

ARCHER-LPP TSA-9, objective 75 mm, mounted on a rifle

ARCHER LPP

THERMAL IMAGING SIGHT
TSA-9

ARCHER-LPP TSA-9 is the best sight in its series. Extremely long distances and severe conditions won't be an obstacle to keeping accurate shooting anymore. Advanced functionality and new software of the sight will be excellent assistants in performing the most complex tasks.

Having kept the excellent technical specifications of its predecessors, ARCHER-LPP TSA-9 has received a wide range of significant advantages. Sight electronics is equipped with a set of sensors and communication tools that widen the functionality and operating capabilities and improve the usage of the device.

The sight is equipped with a highly sensitive passive receiver of a far infrared band (LWIR) with resolution and sensitivity within 20-30 mK. Several lens modifications (50 mm, 75 mm and 100 mm) allow for choosing a sight model that best meets the objective. All models have a manual focus for the comfortable and effective usage of the device.

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. Reticle coordinates can be adjusted both in clicks and in centimetres. A ballistic calculator allows compensating changes in atmospheric conditions, the temperature of dust powder and windage. The device is equipped with sensors of ambient light and proximity, and angle of sight. ARCHER-LPP thermal imaging sight TSA-9 has a serial interface for programming and remote control, an option for downloading and editing target reticles, ballistics table for every type of programmed weapon.

A built-in recording module allows to take photos and shoot video in several modes. The data is read via a wired (USB) interface. The device has a sealed multi-purpose connector for power charging, video output and control.

The design comes in a shockproof, waterproof plastic housing with pumped inert gas resistant to corrosive environment. Conveniently arranged controls are protected from accidental use. Two quick detach battery cassettes and a rechargeable battery allow you to change power supply blindly.

FEATURES

- Built-in compass and accelerometer.
- USB interface for programming and device control.
- 2x, 3x, 4x, 6x digital zoom.
- Sensitivity settings of the detector.
- Different colour schemes for image refinement.
- Built-in video module.
- Manual and automatic calibration of the detector.
- Semi-automatically predicted impact point.
- Windage calculation.
- Automatic compensation for changing adjustment conditions.
- Ballistic table development.

DELIVERY SET

- Thermal imaging sight ARCHER-LPP TSA-9.
- Rechargeable batteries cassette – 2 pcs.
- AA type batteries cassette – 1 pcs.
- Charger 220V, Vehicle charger 12V.
- USB cable, Cable adapter, Blind, User's manual, Case, and Bag.
- Optional: Redundant power supply RBP-8.

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TECHNICAL CHARACTERISITICS

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	10 m ÷ ∞
EYE RELIEF	50 mm
DIOPTER CORRECTION	-6 ÷ +2

BALLISTIC COMPUTER

MAX. MEASURABLE DISTANCE	2500 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	5 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)	290 99 92 mm
WEIGHT	1.38 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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