

TSA-9 Thermal Imaging Sight

TSA-9 Thermal Imaging Sight



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

Having kept excellent technical specifications of its predecessors, 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 usage of the device.

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

Several modifications of the lens (50 mm, 75 mm and 100 mm) provide a possibility to choose a sight model that best meets the objective. All models have a manual focus for comfortable and effective usage of the device.

A built-in colour high-resolution micro display together with an eyepiece with diopter adjustment provide a high-quality image of aiming reticles and a minimal step of their movement 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 centimeters.

A ballistic calculator allows to compensate changing of atmospheric conditions, temperature of dust/powder and windage. The device is equipped with sensors of ambient light and proximity, angle of sight. Thermal imaging sight TSA-9 has a serial interface for programming and remote control, option of downloading and editing target reticles, ballistics table for every type of programmed arms.



[AT Communication ©](#) A built-in recording module allows to take photos and shoot video in several modes.

The data is read via wired (USB) interface. The device has a sealed multipurpose connector for power charging, video output and device 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 cassette and rechargeable battery allow to blindly change power supply.

MAN SIZED TARGET
(100 mm objective)
Detection – 2450 m
Recognition – 650 m
Identification – 330 m

FEATURES

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



DELIVERY SET

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

TECHNICAL CHARACTERISTICS

DETECTOR						
Technology	Uncooled VOx Microbolometer					
Resolution	336 x 256			640 x 512		
Pixel size	17μ					
Operating wavelength	7.5-13.5 μm					
Sensitivity	<50 mK					
OPTICS						
Objective	50 mm	75 mm	100 mm	50 mm	75 mm	100 mm
Objective F number	F/1.0					
Field of view	6.5° x 5.0°	4.4° x 3.4°	3.3° x 2.5°	12.5° x 10.0°	8.3° x 6.4°	6.2° x 5.0°
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	3 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)	objective 50 mm 270 x 99 x 110 mm	objective 75 mm 302 x 106 x 112 mm	objective 100 mm 312 x 106 x 121 mm
Weight	1.3 kg	1.75 kg	1.8 kg
Protection class	IP67		

TSA-9 - Thermal Imaging Sight