

TVS 11

THERMAL MONOCULAR



Display

The TVS 11 is designed for tripod mounting as well as handheld use and utilizes an advanced high resolution thermal sensor. This thermal imaging monocular is well suited to a variety of tactical, law enforcement, search and rescue, and industrial applications. The device utilizes passive infrared sensing technology allowing users to detect extremely small differences in the temperature of objects, people and other heat sources within the field of view.

Unlike traditional night vision devices, the TVS 11 can be operated 24 hours a day, in daytime and at night, even in the total darkness of an enclosed space. The device can also see through smoke, fog and other obscurants. The unit features "black hot" and "white hot" image polarity and can also be connected to external display devices allowing other parties to view the observed image in real time.

Sensor	TVS 11
Generation	Pico 640 Gen 2
Sensor material	Amorphous silicon
Resolution (pixels)	640x480
Detector pitch (μ)	17
Operating wavelength (μ)	8 - 14
Sensitivity (mK @F1.0)	<55
Frame rate (Hz)	50
Video interface	Composite Video, PAL
Video output bandwidth (MHz)	5
Memory (GB)	32
DRI range (m)*	
Human	1,200/300/150
Vehicle	3,150/800/400
Optics	
Objective focal length (mm)	35
Field of view (°)	17.6x13.3
Eye relief (mm)	25
Dioptric correction	-6 to +2
Zoom	1x, 2x, 4x
Mechanics, Electronics & Environmental	
External power adaptor	(optional) 12V input
Dimensions (mm)	165x105x65
Weight without batteries (g)	650
Battery type	4x AA
Battery life, non-rechargeable (hours)	5
Battery life, rechargeable (hours)	3.5
Maximum power consumption (W)	2.5
Operating temperature (°C)	-30 to +55
Storage temperature (°C)	-30 to +55
Operating humidity permissible (%)	95
Shockproof	5 drops on sand from height of 1m
Waterproofing	MIL-STD-810G
Country of origin	
Device	Canada
Detector	ULIS, France
Signal processing unit	Lithuania

*Maximum Detection/Recognition/Identification to target