

TVS 7B Highly sensitive compact thermal vision goggles enable seeing in darkness by transforming invisible infrared radiation into visible image. Some of the tasks suitable for the instrument:

- Search and rescue
- Surveillance, counter-terrorist measures
- Hunting and animals observation
- Industrial research and process control
- Inspection of thermal insulations in residential and industrial buildings
- Inspection of high voltage transmission lines

This unit has black hot or white hot image polarity. Image may be transferred to an external monitor via circular connector. TVS 7B detects extremely small differences in temperature, so that user can distinguish people from their immediate surroundings.

Unlike night vision devices the thermo vision units operate 24 hours a day, in daytime and at night, even in total darkness of enclosed space.

Thermo vision scope enables aiming seeing through smoke or fog. Modern uncooled bolometer array and electronic signal processing enables detecting temperature difference below 0.1°K.



Optical

Objective lens diameter, mm	25
Focal length, mm	25
Field of view	11x8
FOV, m	19 x 14 @ 100
Magnification	1.7x or 3.4x (digital)
Lens type	Germanium
Detection range, human , m	475
Detection range, car , m	900
Detector	Amorphous silicon
Sensor	Uncooled microbolometer
Display resolution	640x480
Output resolution, format	640x480 NTSC
Thermal sensitivity, mk	<100
Spectral response, um	7-14

Mechanical

Battery	Lithium or rechargeable CR123 or external
Operating time on one set of batteries, hours	up to 5
Dimensions, mm	157x60x78
Weight, g	450

Environmental

Water Resistant	V
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