

THERMAL IMAGERS

TVS7B / TVS 8 HAND-HELD COOLED THERMAL IMAGERS

Highly sensitive compact thermal vision devices allow transformation of invisible infrared images into visible image. Some of the tasks suitable for the instrument:

- * Search and rescue
- * Hunting and animals observation
- * Industrial research and process control
- * Inspection of thermal insulations in buildings
- * Inspection of high voltage transmission lines

Newcon Optik Thermal Imagers use a modern linear array detector and low noise electro magnetic scanner. Coupled with optimal electronic processing of the signal this has allowed realistic capacity to detect temperature difference of below 0.1 °K. The advantages of linear array over competing technological solutions are:

- * Cooled technology allows much longer detection and recognition range (over 1000 meters);
- * Much better resolution of the thermal element stipulates clearer and sharper image than any imager built with popular bolometric matrix can provide;
- * Short time of thermal array reaction significantly increases the panning capability of the device, allowing 360 degrees observation within few seconds without image degrading and "slithering" effects. This feature is extremely important for surveillance applications;
- * The suggested solution is not as bulky, heavy, and expensive as devices with closed Sterling cooling cycle.
- * At the same time, the reliability of our imagers is much higher than of other cooled imagers.

The thermo electrical cooling schemes of TVS7B & TVS8 are practically eternal (estimated Mean Time Before Failure is 80,000 hrs), while Sterling cycle based devices have an average MTBF of less than 2,000 hrs



TVS 8 MONOCULAR



TVS 7B BINOCULAR



SPECIFICATIONS	TVS 7B	TVS 8
Spectral diapason, mkm	3-5	3-5
Magnification, x	3	2
Image format, pixels	256x512	128x256
Field of view (vertical x horizontal), degrees	2.7x3.8	4x7
Spatial resolution, mrad	0.5	0.5
Thermal resolution, °K	0.1	0.1
Detection distance (standing human), m	1,500	1,500
Recognition distance (standing human), m	700	700
Power consumption, Watt	6	6
Working temperature range, °C	-40 .. +55	-40 .. +55
Battery life for continuous work without recharge, hr	2	2
Battery type	Sony lithium, recargable	Sony lithium, recargable
Focus range, m	8 - ∞	8 - ∞
Dimensions, mm	230x150x80	195x124x106
Weight with battery, kg	1.5	1.2
Environmental	Waterproof	Water resistant

For more Info & Price Quote, Please Contact:

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