

Low-Cost FLIR



TPIR-45™(9Hz)

TPIR-45™(9Hz) is a family of low-cost FLIRs operating in long IR (7-14 μ) range. Built to exacting standards, TPIR-45™(9Hz) are shock and water-resistant and will withstand the environment when used as a weaponscope. Fast detachable mount allows the unit to be interchanged with other optical equipment in seconds. The electronic reticle allows precise targeting, changes color to provide maximum contrast against its background and optionally will estimate the temperature of the target in crosshairs. TPIR-45™(9Hz) operates on four 3V (CR123) battery and has auxiliary port for operation on external battery, AC electrical outlets or vehicle cigarette lighters. A video output port allows the video to be displayed on an external video monitor or recorded and transmitted wirelessly. When used as a scope, TPIR-45™(9Hz) may be operated hand-held or tripod mounted and externally controlled through software. TPIR-45™(9Hz) is provided with 2x afocal adapter.



Gun Mount



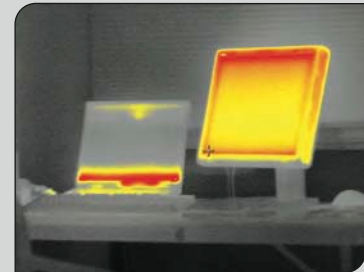
2X Adapter

- TPIR systems are designed and manufactured for applications in public safety, fire and rescue, industrial, security and transportation.
- No light is needed to provide complete night and day surveillance
- Plug-and-play compatibility with standard CCTV interfaces, systems and enclosures
- Cost effective for large area coverage and perimeter security

TPIR-45™(9Hz)

TPIR-45™(9Hz) scope/gunscope

Core	Thermal-Eye 4500AS9HZ
Refresh Rate	Real-time 9Hz
Resolution	320 x 240
Focal length of the lens	50mm / 100mm (with 2x adapter)
Spectral response	7-14μ
iT, temperature resolution	<.05°C
Resolution of video output	NTSC
Magnification	up to 4x (with 2x adapter)
Field of view (V x H)	12°x9° / 6°x4.5° (with 2x adapter)
Focus	Manual
Focus range	5 meters to infinity
Contrast/brightness	Automatic, enhanced
Polarity control	White hot/Black hot
Detection of target "man"	Up to 840/1,680 meters (with 2x adapter)
Identification of target "man"	375/750 meters (with 2x adapter)
Exterior	Water resistant, double seal
Enclosure for outside use ³	Not required for normal use
Video output	SMPTE-170
LCD viewer	Color NTSC
Reticle (crosshairs)	Alternating b/w crosshair ⁴
Gun mount	Picatinny™ rail mount
Size (in inches)	8.6" (L) x 2.8" (W) x 3.2" (H)
Weight	650 – 780 gr with gun mount
Power (external)	1.8VDC - 6.0VDC, < 2.5W
Color	Black
Mounting bracket	1/4-20 tripod mount (bottom)
Power (internal)	Four "3V" batteries (CR123)
Startup time	< 4 seconds
Storage temperature	-40°C to 85°C
Operating temperature	-10°C to 50°C
External control	12 pin Hirose™ connector ⁵



Notes:

1. Specifications and design subject to change without notice.
2. Additional product information maybe found within the instruction/user manual.
3. TPIR-45™(9Hz) body is specifically designed for use outside without an enclosure in standard operating temperatures. For extended temperature range Pelco™ 2500/3500 are recommended.
4. Alternative crosshair self-selects black on white background or white on black. Optional temperature readout from crosshair area.
5. External control connector provides for special cable with power in/out pins and external contact controls (see instructions/user manual).

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