

FTC

Field Test Collimator



ESI SYSTEMS



FTC

Field Test Collimator

The FTC is a compact, lightweight, self contained IR collimator. The FTC enables a single operator easy Go/No Go testing of FLIR systems in the field without the need to dismantle the Unit Under Test from the combat vehicle. The FTC is designed to operate in severe field environment and includes a mechanism that compensates for different ambient temperatures such that the IR energy emitted remains

constant for the whole range of ambient temperatures. The FTC provides the means to define at the flight line and field whether the UUT is operational thus drastically reducing the number of units sent for repair. The FTC may be supplied with mechanical adapters for easy mounting to a vehicle.

FEATURES

- Portable, compact and lightweight
- Easy to operate by a single user
- Adapted to severe field conditions
- 28VDC battery operated (external or from vehicle)
- Three standard differential temperatures
- Refractive collimator
- 8-12 μ m spectral band
- Automated calibration traceable to NIST
- FTC to UUT alignment target

OPTIONS

- Mechanical adapters to any vehicle
- Any three differential temperatures
- Up to 4° field of view
- Input Voltage 220VAC
- Up to 140mm clear aperture
- 3-5 μ m spectral band - consult CI

SPECIFICATIONS

	FTC 2	FTC 5
Spectral band:	8-12 μ m	8-12 μ m
Effective focal length:	10" (254mm)	20.7" (528mm)
Exit aperture:	1.9" (48mm)	5.5" (140mm)
Field of view:	0.8° up to 4°	1°
Target:	User defined	User defined
Blackbody differential temperature:	Standard: 0.3°C, 0.5°C & 1.2°C. (Other temperatures are optional)	Standard: 0.3°C, 0.5°C & 1.2°C. (Other temperatures are optional)
Blackbody accuracy:	±0.1°C	±0.1°C
Long term stability:	±0.2°C	±0.2°C
Unit under test interface:	User defined	User defined
Input voltage:	24±28VDC	24±28VDC
Weight:	2Kg excluding UUT interface	7Kg excluding UUT interface
Environmental:	Operating temperature: -10°C to 40°C Vibration, Shock, Humidity, Dust/Sand, Rain, Salt fog per MIL-STD-810D	Operating temperature: -10°C to 40°C Vibration, Shock, Humidity, Dust/Sand, Rain, Salt fog per MIL-STD-810D



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Specifications are subject to change without prior notice

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