

CFT

Compact Field Tester



 **E SYSTEMS**



CFT

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The **CFT** is a compact, lightweight, self-contained infrared collimator. Designed to withstand severe field environmental conditions. The **CFT** is used to perform Go/No-Go FLIR testing in the field without the need to disassemble and transport the FLIRs and sights to the lab. For accurate MRTD testing, the **CFT** embedded software uses a radiometric compensation algorithm which verifies that the **CFT** emits a Constant radiance, despite changing ambient temperatures.

This unique feature allows MRTD testing in the field as if it were performed under normal laboratory conditions. Also, for added flexibility, up to four differential temperatures are set by the user via an easy-to-use PC interface.

FEATURES :

- ▶ Portable, compact and lightweight
- ▶ Four differential temperatures set by the user
- ▶ Manual target wheel with five targets
- ▶ Refractive collimator
- ▶ Automated calibration traceable to NIST
- ▶ RS232 communication for temperature and remote control
- ▶ Full MRTD testing with a PC interface (optional)
- ▶ Optional remote control unit

SPECIFICATIONS :

	CFT 2	CFT 5
▶ Effective Focal Length	252 mm (approx. 10")	528 mm (approx. 20.7")
▶ Clear Aperture	48 mm (1.9") diameter	140 mm (5.5") diameter
▶ Spectral band	3-5 microns or 8-12 microns	
▶ Blackbody Differential Temperature	-5°C to 20°C	
▶ Blackbody Accuracy	Better than 0.05°C	
▶ Blackbody Stability	±0.01°C	
▶ Transmission	95% Average Transmittance, External Coating: Hard Carbon	
▶ Resolution	5Cy/mrad @ 3-5_m, 3.5cy/mrad @8-12_m	
▶ Target Definition	User-defined	
▶ Field of View	4°	1.9°
▶ Weight	3.5 kg	7.5 kg
▶ Operational Temperature	-20 to +40°C	
▶ Input Power	20-30 VDC	
▶ Physical Size	430 x 170 x 220 mm	665 x 175 dia mm
▶ Mechanical Interface to Unit under Test	Manufactured by CI Systems on request	



Specifications are subject to change without prior notice

POLYTEC GmbH

Büro Berlin Schwarzschildstraße 1 D - 12489 Berlin GERMANY
Tel: +49 (30) 63 92 51 40 Fax: +49 (30) 63 92 51 41



ir-testsysteme@polytec.de
www.polytec.de