

The CFT units are compact, lightweight, self-contained camera test system. They are available for testing in the IR or in the Visible spectral ranges. The CFT units are adapted for field conditions and can be used both at a lab or outdoors.

The CFT-IR models are infrared test systems. The CFT-VIS models are visible camera test systems. They house a lens based (refractive) collimator, energy source (blackbody or visible light source) and one or more targets, all in one compact unit.



CFT-IR units



CFT-VIS-3 unit with resolution target





» FEATURES for CFT-IR Units

- ▶ Portable, compact and lightweight
- ▶ Four differential temperatures set by the user
- ▶ Motorized / manual target wheel with five targets
- ▶ Automated calibration traceable to NIST
- ▶ Ethernet or RS232 communication for temperature and target wheel remote control
- ▶ Full MRTD testing with a PC interface (optional)

» FEATURES for CFT-VIS Units

- ▶ Portable, compact and lightweight
- ▶ The CFT-VIS models can project a variety of visible targets
- ▶ Variable visible light sources are available

» SPECIFICATIONS

Model:	IR Spectral Band		Visible Spectral Band	
	CFT-IR-2	CFT-IR-5	CFT-VIS-2	CFT-VIS-3
Spectral band ²	3-5 μm or 8-12 μm	3-5 μm or 8-12 μm	400-1000 nm	400-1000 nm
Clear Aperture	Ø 48 mm (1.9")	Ø 125 mm (4.9")	50.8 mm (2")	75 mm (2.95")
Effective Focal Length	250 mm (~ 10")	500 mm (~ 19.7")	200 mm (~ 8")	335 mm (~ 20")
Field of View	4°	2°	1°	5.6°
Resolution	5.0 cy/mrad @ 3-5μm, 3.5 cy/mrad @ 8-12μm		6 cy/mrad	10 cy/mrad
Transmission	90% Average		95% Average	
Blackbody Differential Temp.	-5 °C to +20 °C		NA	
Blackbody Accuracy	± 0.05°C (minimum) or ±0.01 x ΔT (whichever is greater)		NA	
Blackbody Stability	±0.01°C	±0.01°C	NA	
Illumination Uniformity	NA		>90%	
Weight	3.5 kg	4.8 kg	2 kg	10 kg
Size [cm]	43L x 17W x 22H	45L x 19W x 22H	Ø 6dia. x 28L	50L x 13W x 16H
Operational Temperature	-20 to +50°C	-20 to +40°C	-10 to +35°C	-20 to +50°C
Storage Temperature	-40 to +70 °C			
Input Power	20-30 VDC			
Images (for use reference only)				
	CFT-IR-2	CFT-IR-5	CFT-VIS-2	CFT-VIS-3

Notes:

- For additional variations on the CFT units please contact CI-Systems .
- General tolerances for all mechanical sizes and weight: ±10%. For ICD drawing with accurate sizes please contact CI-Systems.
- Mechanical Interface of CFT to UUT can be manufactured by CI-System upon request
- Up to four selectable differential temperatures for the CFT-IR units are available. These temperatures can be set by a friendly user PC interface.
- Up to x5 user defined targets can be integrated in CFT-IR units. Target wheel can be manual or motorized (upon request).
- For accurate MRTD testing, the CFT-IR units need to disassemble and transport the FLIRs and sights to the lab. The CFT-IR's embedded software uses an algorithm to ensure that CFT emits the same radiance regardless of ambient temperatures.
- One target can be fixed in the CFT-VIS units. Target definition is user defined
- For CFT-VIS units battery operation is limited to LED sources only
- Optional for CFT-VIS-3 model (upon request):
 - With SR-300N Integrating sphere high uniform source or with visible LED based Backlight
 - RS232 communication for SR-300N integrating sphere luminance control
 - Equipped with interface for tripod