

# » WFOV

## Wide Field of View Test System



The CI Systems Wide Field of View IR test system is used for testing thermal imagers in their wide field of view mode of operation. Typical applications include navigational FLIRs and commercial imagers.

CI's unique compact WFOV system combines an optical collimator with IR source (blackbody or integrating sphere) and a target wheel. The system can be used for performing a range of IR testing such as MTF, NETD, MRTD, FOV etc.

The WFOV system can be controlled using the controller or using a computer via Ethernet or RS232 communication. The system is fully compatible with CI's Automatic Computer Test Executive (CTE) Software for electro-optical testing.

### » FEATURES

- ▶ High optical quality
- ▶ Easy to operate
- ▶ High resolution option available
- ▶ Cost-effective
- ▶ Rugged construction
- ▶ Easy to align
- ▶ Automatic testing feature

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## Wide Field of View Test System

### » SPECIFICATIONS: WFOV COLLIMATORS

Model Name	WFOV for SWIR	WFOV for 3-5	WFOV HR for 3-5 (high resolution)	WFOV for 8-12
Spectral Range	0.9 - 1.7 $\mu\text{m}$	3 - 5 $\mu\text{m}$	3 - 5 $\mu\text{m}$	8 - 12 $\mu\text{m}$
Type	Refractive	Refractive	Refractive	Refractive
FOV	11.7 deg.	11.0 deg.	15.0 deg.	11.0 deg.
Clear Aperture (diameter)	70 mm	100 mm	70 mm	100 mm
Focal Length	100 mm	100 mm	100 mm	100 mm
Collimators' Optical Resolution (*)	3 cy/mrad	3 cy/mrad	8 cy/mrad	3 cy/mrad
Source Model	Integrating sphere SR300N-1-close-mot	Blackbody SR800N-2D	Blackbody SR800N-2D	Blackbody SR800N-2D
Target Wheel	Motorized Target Wheel, remotely controlled Number of targets: up to 12 target plates, Target plate diameter: 20mm			

(\*) For targets with resolutions higher than 2.5 cy/mrad, please contact CI Systems

### » SPECIFICATIONS: OPTIONAL SOURCES

Blackbody Model: SR800N-2D (**)	Integrating Sphere Model: SR300N-1-close-mot (**)
<ul style="list-style-type: none"> <li>▶ Differential extended area blackbody</li> <li>▶ Aperture: 2" diameter</li> <li>▶ Absolute temperature range: 0°C to 125°C</li> <li>▶ Differential temperature range: -25°C to 100°C</li> <li>▶ Removable sensor included</li> <li>▶ Control unit 19" rack mountable</li> </ul>	<ul style="list-style-type: none"> <li>▶ Type: Motorized aperture shutter, closed loop</li> <li>▶ Sphere diameter: 4"</li> <li>▶ Exit aperture: 1" diameter</li> <li>▶ High uniformity: 98%</li> <li>▶ Spectral band: 0.44 - 2.2 micron</li> <li>▶ Light source: Halogen lamp</li> <li>▶ Control unit 19" rack mountable</li> </ul>

(\*\*) For additional information on sources, see products datasheets



WFOV for SWIR testing

