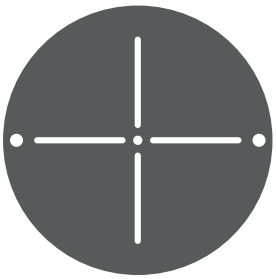
TARGET DATA SHEET

Description

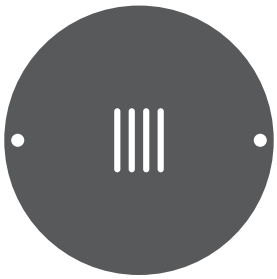
- TEMPSENS manufactures a wide range of targets for electro-optical testing systems. These targets accurately radiate visible light sources coming from a distance to test the performance of the thermal imagining system.
- Our targets can be mounted directly onto the front of a blackbody. Thus integration of a blackbody and a target on its focal plane provides accurate test results.
- IR targets are highly accurate with one side coated with a high emissive substance and the other side polished for efficient energy reflection.
- TEMPSENS can manufacture and supply different types of customizable laser micromachining targets as these target patterns and dimensions depend on the type of test being carried out and on the camera characteristics.

Shapes of Infrared Target

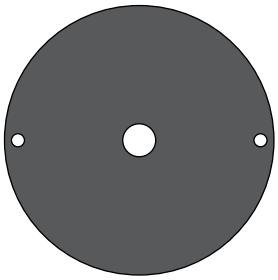
Infrared targets for wide range of E-O tester.



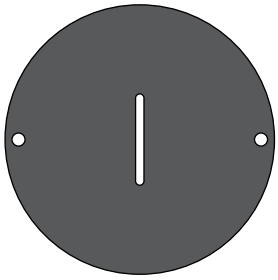
Aim Cross Target



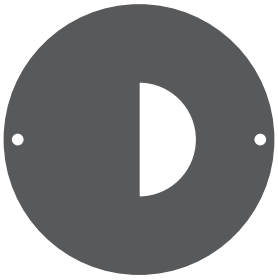
4 Bar Target



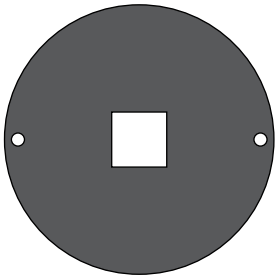
Pinhole Target



Slit Target



Edge Target



Square Target

Types Of Targets Available

- Slit targets for MTF testing.
- Square targets for NETD and SiTF.
- Four Bar targets for MRTD testing.
- Cross targets for alignment and bore sighting.
- Pinholes are used for MDTD & line-sight, bore-sight testing.

TEMPSENS

Targets dimension and specification sheet

Target Type	Minimal Dimension (mm)	Tolerance	Emissivity
CROSS TARGETS	0.5	±5%	0.97 ±0.02
PINHOLE	0.10	±5%	0.97 ±0.02
SQUARE	2.0	±5%	0.97 ±0.02
SLIT	0.50	±5%	0.97 ±0.02
4 BAR	0.10	±5%	0.97 ±0.02

* Laser Micromachining is customizable as per customer's requests.

More About Targets

- **EDGE/SLIT TARGET :** Edge/Slit targets are used in the measurement of modulation transfer function – MTF of thermal imagers to simulate the temperature change.
- **PINHOLE TARGET :** Pinhole targets are used for Minimum Detectable Temperature (MDT) test, line of sight, and boresight.
- **FOUR BAR TARGET :** 4-Bar targets perform Minimum Resolvable Temperature Difference (MRTD) test. This test is a measure of overall system performance. It also indicates the minimum differential temperature required for an observer to detect a target of a specific spatial frequency.
- **SQUARE TARGET :** Square targets are used for Minimum Detectable Temperature (MDT), Signal Transfer Function (SiTF), and low-frequency response. It can be manufactured in a wide range of sizes and aspect ratios.
- **CROSS TARGET :** Cross targets are of two types Aim cross target and Dot cross targets. These targets are used for FOV / DISTORTION and Boresight.

Tempsens Instruments (I) Pvt. Ltd. U# I
B-188A, Road No.5, M. I. A.,
Udaipur - 313003 (Rajasthan) INDIA
Ph.:+91-294-3507700, Fax.:+91-294-3507731
Email: info@tempsens.com