

Imatest Collimator Fixture

Relay lens system for simulating large test distances

Why the Imatest Collimator Fixture?

Cameras with long-focus distances can be difficult to test in a compact space. Testing your imaging system at distances up to infinity can be achieved using relay optics. The Collimator Fixture is configurable to your working distances and fields of view with an adjustable lens-to-chart distance, interchangeable collimating lenses, and charts.

Included with the Fixture:

- ✓ Joystick and computer-control interface for automatic positioning using four motorized stages.
- ✓ Storage and recall of device positions.



Size: 951mm length x 1300mm width x 797mm height (depending on required panel distance)

Requirements

- ✓ Entrance pupil diameter of device under test must be less than or equal to the exit pupil size of the collimating lens.
- ✓ Camera needs to be aligned precisely with the optical axis of the collimator.

Available Collimator Lenses

Lens	Wavelength	FOV	Exit Pupil Size	Virtual Object Distance
CL736i	Visible	70°	15.0mm	400mm - Infinity
CL921e	Visible	90°	4.5mm	400mm - Infinity
CL1021i	Visible	100°	4.5mm	400mm - Infinity
CL1223i	Visible	120°	4.5mm	350mm - Infinity
CL825I	IR (850nm, 940nm)	80°	4.0mm	400mm - Infinity
CL921IR	IR (850nm, 940nm)	90°	4.5mm	400mm - Infinity



*70° Medium Field of View
Collimator Lens*



*90° Field of View
Collimator Lens for Mobile*



*120° Wide Field of View
Collimator Lens*

Light Panel	Size	Illumination
D	610mm x 432mm	Visible 100 - 1000 lux 3100K, 4100K, 5100K, 6500K
E	907mm x 540mm	
F	907mm x 680mm	NIR 2 ~ 20 W/m ² 850nm or 940nm
G	1225mm x 680mm	

Imatest, LLC

4775 Walnut St. Suite 200
Boulder, CO 80301 USA

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imatest.com/info/collimator

