

Imatest Benchtop Test Stand

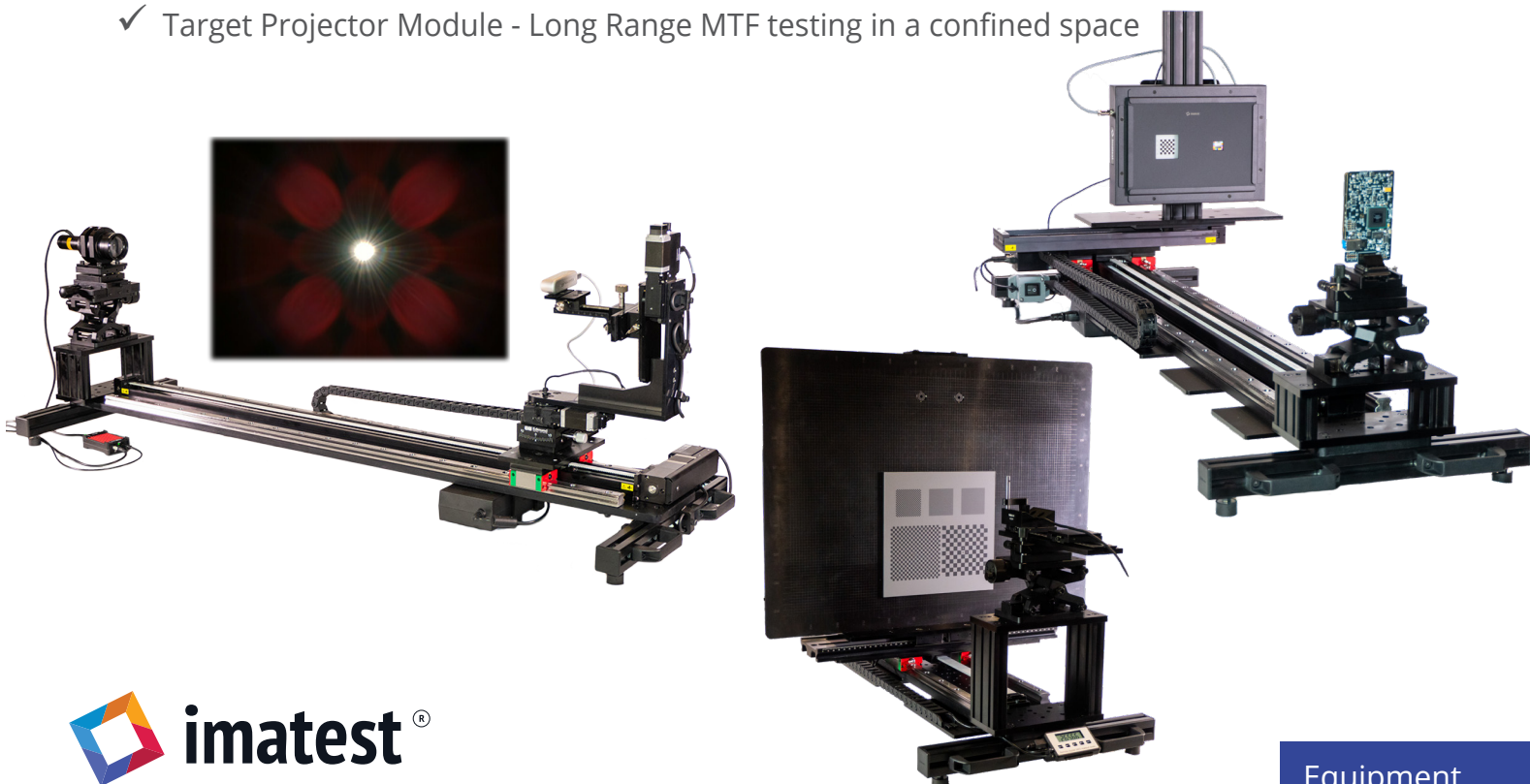
Benchtop fixture for macro image quality testing

Why Choose the Imatest Benchtop Test Stand?

The Benchtop Test Stand (BTS) is an easy-to-use, modular platform for image quality testing. Quickly test endoscopes and medical devices for sharpness, color accuracy and more using the endoscope module. Perform long range testing in a confined space using the target projector module. Derive objective metrics such as normalized stray light (flare) using images captured with the stray light module. Perform transmissive testing with Imatest lightboxes or light panels, or perform reflective testing using the optional magnetic chart mounting system.

Imatest Benchtop Test Stand Features

- ✓ Compact design easily fits on a standard workbench or table. Footprint: 54 x 21".
- ✓ Reflective or transmissive testing - up to 1 meter test distance
- ✓ Endoscope Module - ready to use medical device fixturing
- ✓ Motorized BTS - automated positioning of cameras, light sources, and targets
- ✓ Stray Light (Flare) Module - normalized stray light characterization
- ✓ Target Projector Module - Long Range MTF testing in a confined space





Imatest Benchtop Test Stand Specifications

Specifications	Details
Weight:	BTS: 22.7 Kg (50 lbs) BTS-R-KIT: 18.3 Kg (40 lbs) BTS-SLTP-MOTZ: 29.5 Kg (65 lbs) BTS-SLTP: 20.4 Kg (45 lbs) BTS-E-KIT: 1.5 Kg (3.3 lbs) BTS-MOTXZ: 34 Kg (75 lbs)
Dimensions: Dimensions vary on configuration used	Width: 528mm manual ILP/ILB, 665mm reflective chart Length: 1372mm Height: 692mm reflective chart
Transmissive Targets:	ILP-A ILP-B ILB-B Visible Spectra: 3100K 4100K 5100K 6500K NIR Spectra: 850nm 940nm
Reflective Targets:	Up to 665 x 500mm (SFRreg 2X)
Translational Travel:	Motorized: Z-axis: 1045mm Y-axis: 60mm X-axis: 300mm Manual: Z-axis: 1000mm Y-axis: 60mm X-axis: 500mm
SLTPM Translational Travel:	Motorized: Z-axis: 1045mm Y-axis: 60mm X-axis: 50mm Manual: Z-axis: 1000mm Y-axis: 60mm X-axis: 50mm
Rotational Travel:	Yaw: $\pm 2.5^\circ$ Pitch or Tilt: $\pm 2.5^\circ$ Endoscope: Yaw: $0^\circ, 30^\circ, 70^\circ$
Microstep Size (Default Resolution):	Z-axis: $4.2\mu\text{m}$ X-axis: $0.50\mu\text{m}$
Motorized Accuracy (unidirectional):	Z-axis: $700\mu\text{m}$ X-axis: $35\mu\text{m}$
Repeatability:	Z-axis: $20\mu\text{m}$ X-axis: $2.5\mu\text{m}$
Operating Temperature Range:	0 to 40 °C
Maximum DUT Weight:	11.34Kg (25lbs) Endoscope Module: 3Kg (6.6lbs)
Electrical: Maximum Current Draw	Z-axis: 1800mA X-axis: 1900mA Rotational Axes: 950mA Input Voltage: 100-240 V AC

