

# Imatest Benchtop Test Stand

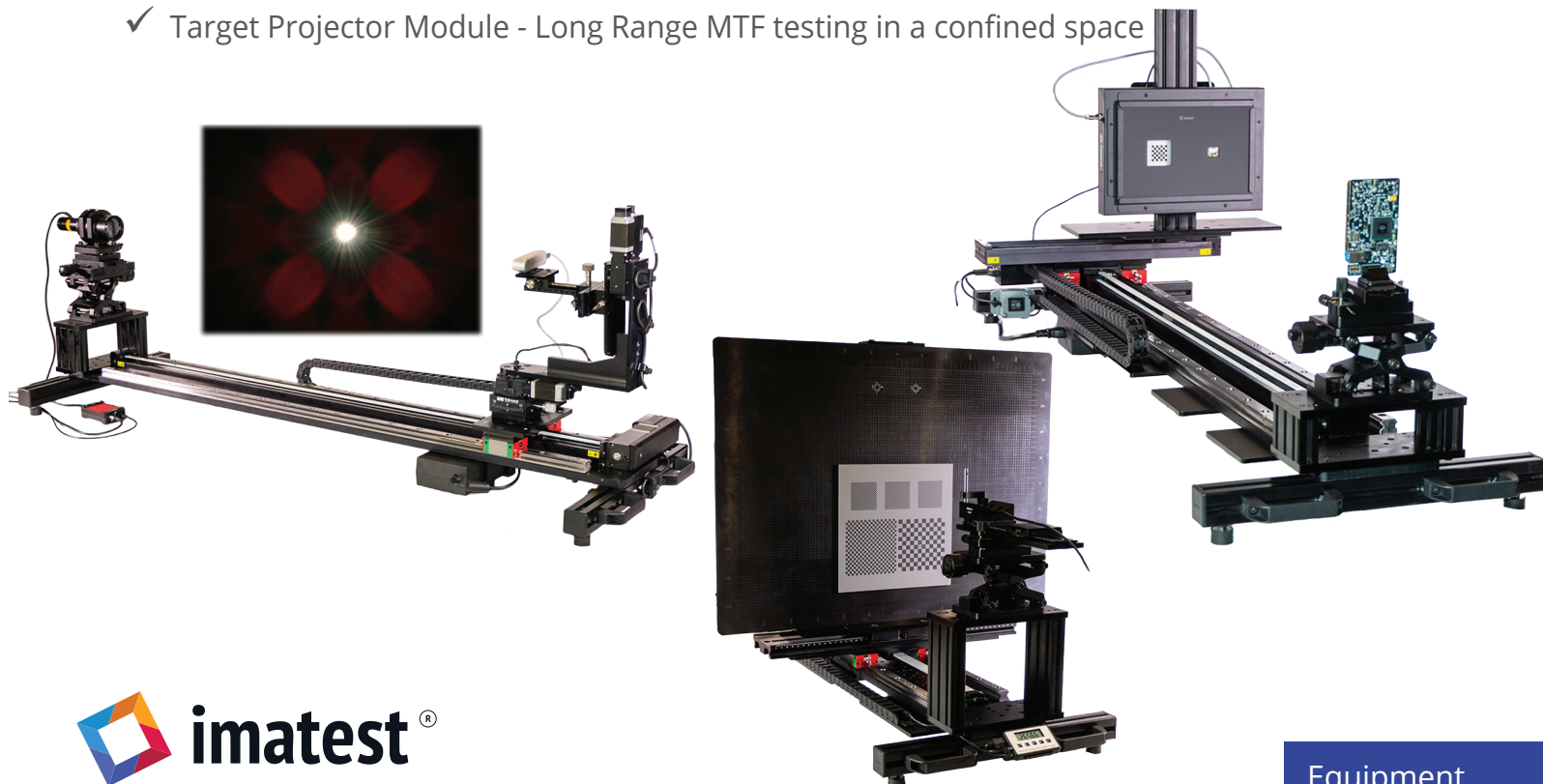
*Benchtop fixture for macro image quality testing*

## 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 (Small footprint).
- ✓ 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
<b>Weight:</b>	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) BTS-500mm: 16 Kg (35 lbs)   BTS-500-MOTXZ: 23 Kg (50 lbs) MOTY: adds 3.0 Kg (6.6 lbs)
<b>Dimensions:</b> Dimensions vary on configuration used	Width: 528mm   w/ BTS-R-KIT: 665mm Length: 1372mm   BTS-500mm Length: 772mm Height w/ BTS-R-KIT: 692mm   MOTY Height: 463mm
<b>Transmissive Targets:</b>	ILP-A   ILP-B   ILB-B Visible Spectra: 3100K   4100K   5100K   6500K NIR Spectra: 850nm   940nm
<b>Reflective Targets:</b>	Up to 665 x 500mm (SFRreg 2X)
<b>Translational Travel:</b>	Motorized: Z-axis: 1045mm   Y-axis: 150mm   X-axis: 300mm Manual: Z-axis: 1000mm   Y-axis: 60mm   X-axis: 500mm BTS-500mm Z-axis: 450mm   BTS-500 Motorized Z-axis: 445mm
<b>SLTPM Translational Travel:</b>	Motorized: Z-axis: 1045mm   Y-axis: 60mm   X-axis: 50mm Manual: Z-axis: 1000mm   Y-axis: 60mm   X-axis: 50mm
<b>Rotational Travel:</b>	Yaw: $\pm 2.5^\circ$   Pitch or Tilt: $\pm 2.5^\circ$   Endoscope: Yaw: 0°, 30°, 70°
<b>Microstep Size (Default Resolution):</b>	Z-axis: 4.21875 $\mu$ m   X-axis: 0.49609375 $\mu$ m
<b>Motorized Accuracy (unidirectional):</b>	Z-axis: 700 $\mu$ m   X-axis: 35 $\mu$ m
<b>Repeatability:</b>	Z-axis: 20 $\mu$ m   X-axis: 2.5 $\mu$ m
<b>Operating Temperature Range:</b>	0 to 40 °C
<b>Maximum DUT Weight:</b>	11.34Kg (25lbs)   Endoscope Module: 3Kg ( 6.6lbs)
<b>Electrical:</b> Maximum Current Draw	Z-axis: 1800mA   X-axis: 1900mA   Rotational Axes: 950mA Input Voltage: 100-240 V AC

