

T-Scope: Thorlabs Microscopes

Thorlabs' T-Scope are microscopes designed to provide an optical system that is both easy to operate as well as modify. They can be adapted for a variety of applications including wide-field or laser scanning microscopy.

Each T-Scope consists of a five position objective turret, infinity-corrected tube lens (ITL200), and parfocal camera port. The 5-objective turret is equipped with M26 x 36 TPI threading. For use with RMS-threaded objectives, five RMSA7 adapters are also provided.

The T-Scope is mounted on Thorlabs' Post-Mountable Focus Block, which is available with either manual or motorized control. The fine control provided by the motorized version, TSCOPE-MOT, allows 10 times greater precision in z-axis positioning and improves resolution by a factor of 25 over its manual (TSCOPE) counterpart.



TSCOPE
Shown with MP1214
T-Scope Stand

Features

- Focus-Adjustable C-Mount Adapter
- Five-Objective Turret with M26 x 36 TPI Threading
- Directly Compatible with SM1 and SM2 Lens Tube Systems
- Includes Adapters for RMS-Threaded Objectives
- Motorized Version Includes Software and User Interface

Specifications

ITEM #	TSCOPE (Manual Microscope)	TSCOPE-MOT (Motorized Microscope)
Z-Axis Travel	30 mm	
Z-Axis Adjustment	Fine: 250 μ m/rev; Coarse: 40 mm/rev	
Incremental Step (Min)	500 nm	50 nm
Resolution	2.5 μ m	100 nm
Mounting*	\varnothing 1.5" Posts	

* Mounting post sold separately

**For more information or to place an order,
contact one of our Customer Support Specialists
at 973-300-3000 or visit www.thorlabs.com.**

**MGZ30 - Post-Mountable
Manual Focus Block**
\$1,800.00



**Olympus and Nikon Plan Fluorite
Objectives - 4X - 60X Magnification**
Starting at \$415.00



**ITL200 - Infinity-Corrected
Tube Lens**
\$450.00



The T-Scope is a modular unit that is an ideal starting point for custom systems. It is equipped with an SM1-threaded (1.035"-40) non-rotating port with an included C-mount adapter. This port allows direct mounting of cameras (as seen in the photo to the right) and detectors. Removing this SM1 port allows the user access to an SM2 thread (2.035"-40).

Alternatively, when purchased separately, the Focus Block incorporated into the T-Scope (manual version shown at left) is designed to be the base unit upon which home-built microscopes and imaging systems may be constructed and configured from our standard optomechanics. A single dovetail adapter is located above the lens turret, enabling direct integration of SM1- and SM2-threaded components.



T-Scope Stand



MP1214

The MP1214 T-Scope Stand consists of Thorlabs' Ø1.5" Dynamically Damped Post with a specially designed 12" x 14" breadboard. This 3/4" thick breadboard base is designed to provide increased stability for Thorlabs' T-Scopes.

Additionally, the base includes side grips and recessed feet for easy lifting and transportation of the stand. The included DP14 Dynamically Damped Post provides added stability by reducing vibrational effects on the final image.

Pricing*

ITEM #	DESCRIPTION	PRICE*
TSCOPE	Microscope with Manual Focus	\$ 2,800.00
TSCOPE-MOT	Microscope with Motorized Focus	\$ 5,100.00
MP1214	T-Scope Stand	\$600.00

*For other currencies, please see our catalog.