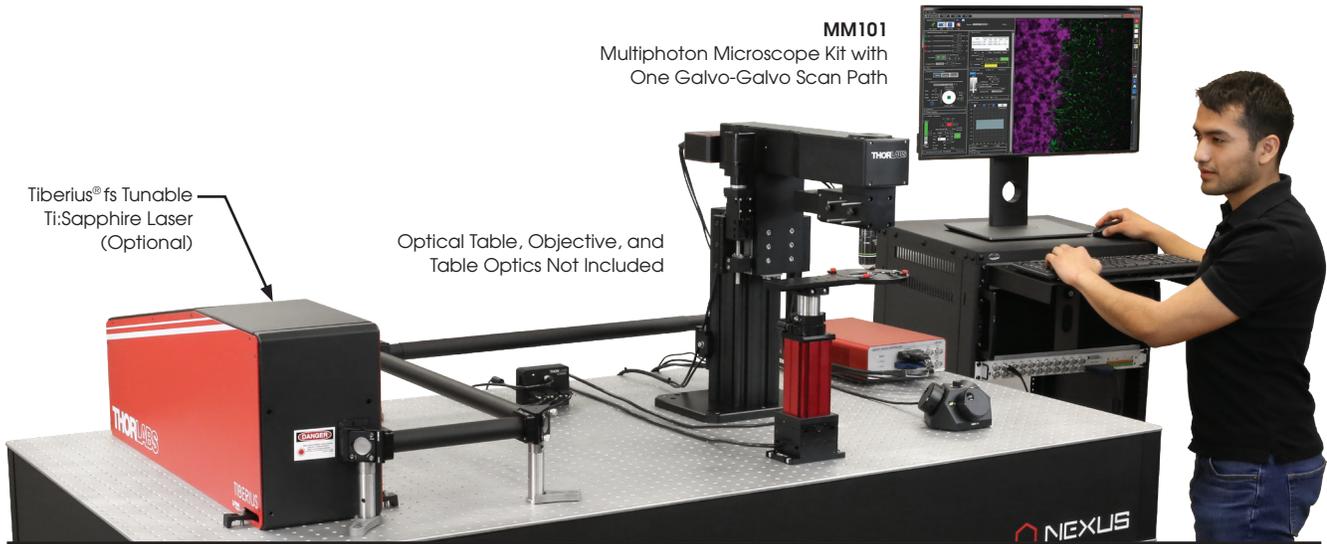


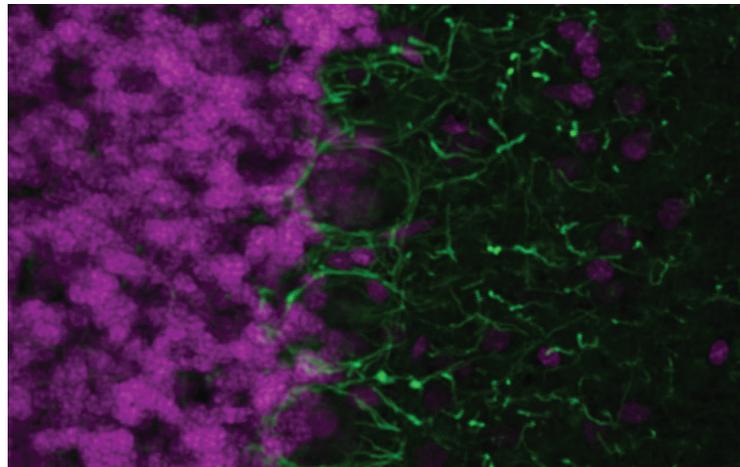
## Modular DIY Multiphoton Microscope Kits



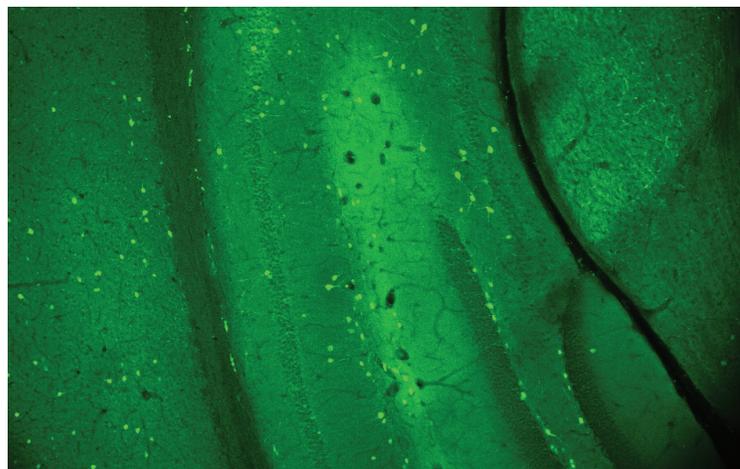
Based on our versatile Bergamo® platform, these Do-It-Yourself (DIY) Multiphoton Microscope Kits are comprised of all core items required to build a galvo-galvo or galvo-resonant upright two-photon microscope. Each kit is offered with the optional Tiberius® fs Ti:Sapphire Tunable Laser. The complete ThorImage®LS software is also included, which provides an integrated, modular workspace tailored to the individual needs of the scientist.

### Features

- ◆ Two Scan Paths Available
  - Galvo-Galvo
  - Galvo-Resonant
- ◆ Upright Body with Fine Z-Axis Motion
- ◆ 8° Collection Optics in Epi Direction (for Ø20 mm Entrance Pupil)
- ◆ One GaAsP PMT, Upgradeable to Two PMTs
- ◆ Includes ThorImageLS Software: Our Internally Developed, Open-Source Solution
- ◆ Optional Tiberius fs Ti:Sapphire Tunable Laser



Fast Switching between the optimal excitation wavelengths of 750 nm and 835 nm using the Tiberius fs Tunable Laser provides the high contrast seen in this composite image. The two-channel set was collected at an imaging rate of 7 fps.



Native Fluorescence from a 1 mm GFP-GAD65 Transgenic Mouse Brain Section (Samples Courtesy of Lynne Holtzclaw, NIH/NICHD/MIC, Bethesda, MD)

# Specifications

Item #	MM101	MM201
<b>Highlighted System Specifications</b>		
FOV	20 mm Diagonal Square (Max) at the Intermediate Image Plane	
Imaging Speed	Up to 2 fps at 512 x 512 Pixels, Single Channel	30 fps at 512 x 512 Pixels
Scanning Resolution	Bi-Directional: Up to 2048 x 2048 Pixels Uni-Directional: Up to 4096 x 4096 Pixels	Bi-Directional: Up to 2048 x 2048 Pixels Uni-Directional: Up to 4096 x 4096 Pixels
<b>Microscope Components</b>		
Microscope Body	95 mm Dovetail Rail with Z-Axis Motion	
Scanner	4 mm Galvo-Galvo Scanner	8 kHz Galvo-Resonant Scanner
Scan Path Wavelength Range	450 – 1100 nm	
Detection	1 GaAsP PMT, Upgradeable to 2 PMTs	
Collection Optics Module	8°	
Objective Holder	Single	
Sample Stage	Rigid Stand Slide Holder with Motorized XY Translation Stage	
Laser (Optional)	Tiberius® fs Ti:Sapphire Tunable Laser	
Price <sup>a</sup>	\$78,537.50	\$112,012.50

a. For other currencies, please visit [www.thorlabs.com](http://www.thorlabs.com).



Each kit provides a basic system users can customize to their experimental needs, including a computer, DAQ, and ThorImage<sup>®</sup>LS data acquisition software. The MM201 kit is shown here. The optical table, objective, and routing optics are sold separately.



Two-Photon Image of Neurons Expressing Thy1-YFP in a Cleared Region of the Dentate Gyrus

(Courtesy of the 2017 Imaging Structure and Function in the Nervous System Course at Cold Spring Harbor Laboratory, Cold Spring Harbor, NY)

For more information, contact us at [ImagingSales@thorlabs.com](mailto:ImagingSales@thorlabs.com)