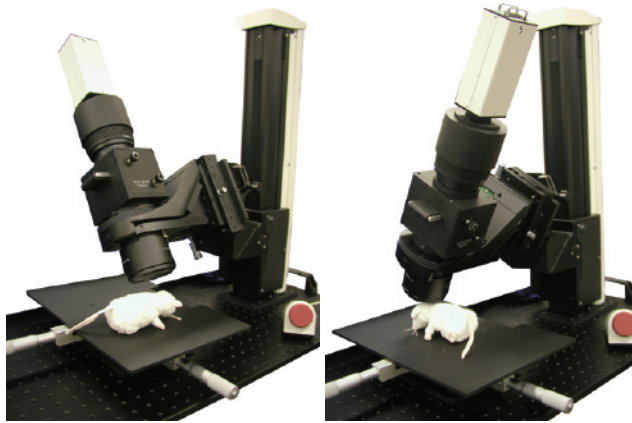
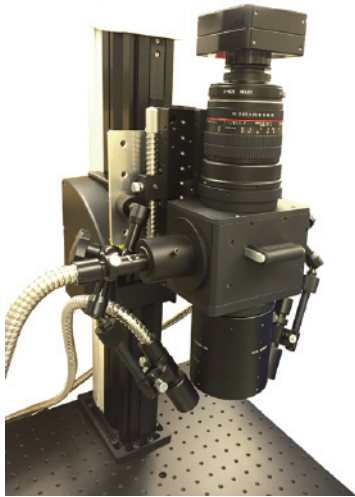


Fluorescence Microscope THT Series

Incomparable brightness with a wide field of view
Optical axis can be tilted and rotated
Simultaneous dual-wavelength imaging



No need to tilt animal samples.

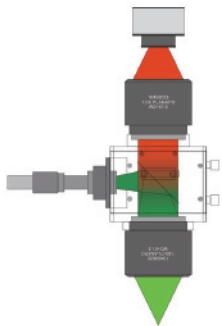
Applications:

Voltage-Sensitive Dye
Calcium Dye
GCaMP, GEVI, FRET
Intrinsic Signal ... etc.

The THT macroscope is a fluorescence microscope developed for detecting low light fluorescence that is emitted from the biological sample at a low magnification.

This macroscope has a very simple optical path combining two large-diameter objective lenses and a custom-made large fluorescent filter. Custom-made systems can be constructed according to your request.

Simple structure:
specializing in imaging



Low magnifications with High N.A values:
Detecting low light fluorescence with a wide field of view

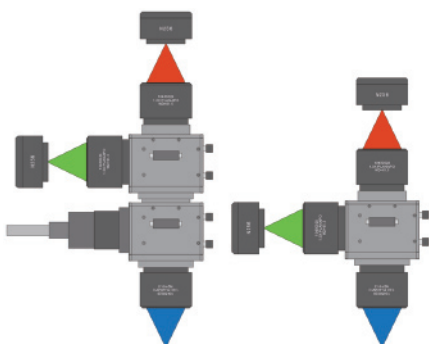
Objective lenses with high N.A value and long working distance

Magnification	Lens aperture	Working Distance
0.3x	50mm	140mm
0.63x	43mm	67mm
1x	60mm	62mm
1.6x	59mm	31mm
2x	57mm	20mm
5x	39mm	19mm

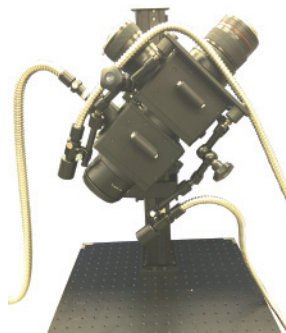
Condensing lenses with aperture and focal length adjustment mechanism

Focal Length	Magnification	Mount
50mm	0.63x	C
85mm/1.4	1.0x	EF/C
135mm/2.0	1.6x	EF/C

Multifunction: used as a
fluorescence beam splitter



Optical axis can be tilted and rotated:
No need to tilt sample



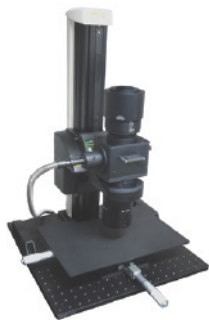
Easy to change
fluorescence filter



Various Types of Stands



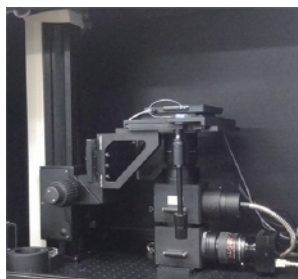
Olympus BX51WI stand and XY table



Epi-illumination and single wavelength imaging



High rigidity arm type for In Vivo sample



Inverted Type



Long arm Type



Side illumination and dual wavelength imaging



Epi-illumination and side illumination for dual wavelength imaging



Epi-illumination and side illumination for dual wavelength imaging, 90 degrees rotation



Horizontal imaging for Langendorff perfused heart



Boom-Arm Type

Total Magnifications

Objective Lens	Condensing Lens (Camera Side)					
	0.63x	1x	1.6x	50mm	85mm	135mm
0.3x	0.48x	0.3x	0.19x	-	-	-
0.63x	1x	0.63x	0.4x	0.4x	0.69x	1.27x
1x	1.6x	1x	0.63x	0.64x	-	2x
1.6x	2.6x	1.6x	1x	1.02x	-	-
2x	3.2x	2x	1.26x	1.28x	2.23x	4x
5x	6.3x	4x	2.5x	-	4.48x	-

Specifications

Product Name	Fluorescence microscope THT series
Model	Tandem lens optics for camera use
Focusing mechanism	Manual focus drive or Motor focus drive (remote controllable)
Carrier	Objective nosepiece for two objectives or Optical axis tilting mount
Filter cube	Exchangeable 50mm diameter filter can be installed on the top and side Dichroic mirror mount with shift and tilt adjustment
Lighting method	Epi-illumination or side-illumination
Lens port	Top: 1, Side: 1, Bottom: 1
Objective lens	PLAN 0.3x / PLAN APO 0.63x / PLAN APO 1x / PLAN APO 1.6x / PLAN APO 2x / PLAN APO 5x
Condensing lens	PLAN APO 0.63x / PLAN APO 1x / PLAN APO 1.6x / PLAN APO 2x 135mm/2.0mm lens (with aperture and focal length adjustment mechanism) 85mm/1.4mm lens (with aperture and focal length adjustment mechanism) 50mm/0.95mm lens (with aperture and focal length adjustment mechanism)
Stage for sample	Option (sold separately)

* Specifications & appearance are subject to change without prior notice due to continuous improvements.

* All products are made in Japan.

Developed and Manufactured by:

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