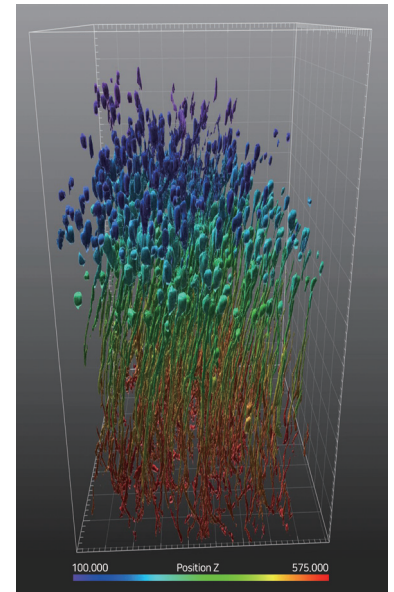
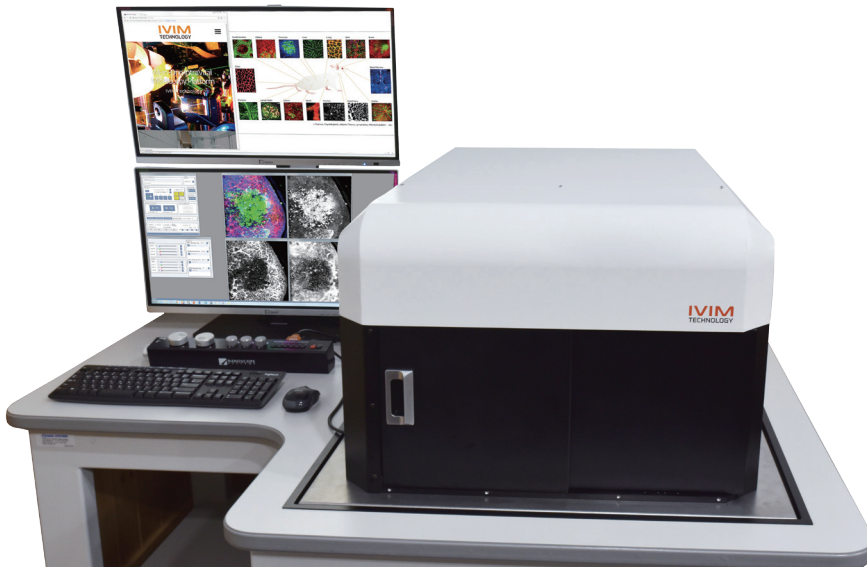


IVM-MS (Two-Photon Smart Ver.)

Compact Two-Photon Imaging Platform

IVIM
TECHNOLOGY



A new compact high-efficiency Two-Photon system

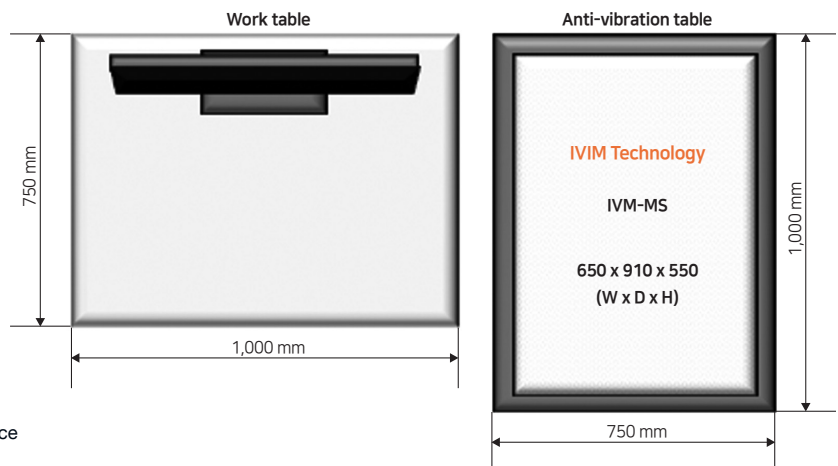
IVM-MS is the All-in-One IntraVital Two-Photon Microscopy System, optimized for in vivo imaging experiments and equipped with a new compact high-efficiency fs-pulse laser module. Especially, because it integrates a compact high-stability maintenance-free fs-pulse laser into a single box, the IVM-MS is the ideal solution for customers in need of a two-photon microscope with limited resources of space and budget.

Key features of IVM-MS (Two-Photon Smart Ver.)

- World's 1st all-in-one IntraVital Microscopy for live animal model
- Ultra High-speed Imaging (max. 100 fps - 512x512 pixels)
- 4D Animal Motion Compensation (X,Y,Z & Time)
- Simple hand-free turn-key operation of 920 nm NIR fs-laser for deeper tissue imaging
- Cost-saving, Space-saving, Hands-free, Maintenance-free

Specifications

Laser	Compact Two-Photon Laser Unit	<ul style="list-style-type: none"> Air cooled fs-fiber laser system Wavelength : 920 nm, Pulse width <100 fs, Rep. rate : 80 MHz Avg. power >1 W, Dispersion compensation : 0 to -30,000 fs²
	Two Photon Detector	<ul style="list-style-type: none"> Wavelength : 185 - 760 nm (DAPI, CFP, GFP, YFP, RFP, Cy5, Cy5.5, etc.) 4 High quantum efficiency PMTs (UV to Near IR, Ultra High Sensitivity, Low Dark Current)
Fluorescence Detector	Variable Emission Filter (optional)	<ul style="list-style-type: none"> 6 or 2 emission filters can be mounted on each of four detectors
	Scanner	<ul style="list-style-type: none"> Polygonal mirror (Fast axis scanning, Max. 66 kHz) Galvano scanner (Slow axis scanning, Max. 200 μs/step)
Scan Head	Objectives	<ul style="list-style-type: none"> Max. 6 objectives are mountable on S/W controlled motorized turret (1X - 100X) Compatible for commercial objectives
Imaging Head	FOV	<ul style="list-style-type: none"> 100 x 100 μm² - 10 x 10 mm²
	Pixel Resolution	<ul style="list-style-type: none"> Max. 2,048 x 2,048 pixels
	Imaging Speed	<ul style="list-style-type: none"> 30 fps @ 512 x 512 pixels (Max. 100 fps), 15 fps @ 1,024 x 1,024 pixels (Max. 50 fps)
Image	3D Stage	<ul style="list-style-type: none"> Travel Range : 50,000 x 50,000 x 75,000 μm (XYZ) Micromanipulation (Max. 0.2μm resolution) 3-axis independent control with Jog Dial & S/W
	Specimen Holder	<ul style="list-style-type: none"> Flexible-design universal specimen holder can be mounted
		In vivo
Ex vivo In vitro	<ul style="list-style-type: none"> A single glass slide or culture dishes 	
Motion Correction	4-D In Vivo Imaging Motion Compensation & Tracking	<ul style="list-style-type: none"> XY motion compensation : Averaged image acquisition with motion artifact compensation Z motion compensation : Image-based sample Z position adjustment for long-term intravital microscopic imaging & sample tracking (Feedback-loop automatic stage control) T motion compensation : Image-based image XY position adjustment for long-term intravital microscopic imaging & sample tracking (Feedback-loop automatic stage control) Combination of above three compensation for 4D in vivo motion compensation
	Image Display	<ul style="list-style-type: none"> Independent 4 single channel display (RGBA channel) Overlay channel display (Selection among RGBA channel)
Studio Software	In Vivo Imaging Mode	<ul style="list-style-type: none"> Mosaic imaging (XY), Z-stack imaging (Z), Time-lapse imaging (T) Time-lapse imaging at Multi-position (T- M), Time-lapse & Z-stack imaging (TZ), Time-lapse & Z-stack imaging at Multi-position (TZ- M)



AXT PTY LTD
 Authorised Distributor
 IVIM Technology
 Australia & New Zealand

1/3 Vuko Place
 Warriewood
 NSW 2102 Australia
 +61 (0)2 9450 1359
 axt.com.au
 info@axt.com.au

IVIM Technology, Inc. All rights reserved.

Webpage www.ivimtech.com | **Contact** information@ivimtech.com
TEL +82-42-825-7450 | **FAX** +82-42-825-7451