IVIM Light up Your World

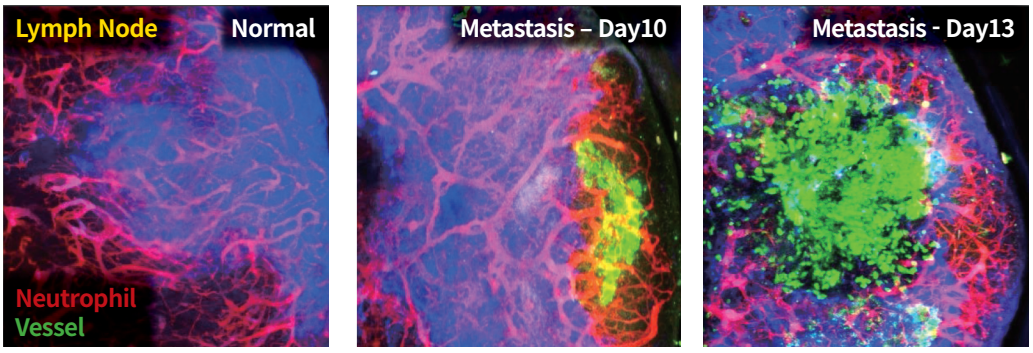
IVM-C3 (Confocal v. 3)

The New All-in-One Intravital Imaging Platform



Tractable, Fast and Gentle

IVM-C3 is a highly integrated intravital microscopy for *in vivo* imaging with an enormously increased detection efficiency, optical resolution, and contrast of the image compared to conventional fluorescence microscopy. Equipped with a 4-wavelength laser and four high-sensitivity confocal detectors, IVM-C3 allows multi-dimensional views of living cells and tissues in 3D or 4D up to four different colors. It is the optimal system for simultaneously observing various dynamic multi-cellular behaviors in small live animal models.



Key Features

- Multi-color Simultaneous Imaging (4 channels, 4 different colors)
- Fully Integrated *in vivo* Maintenance Unit / Animal Stage (e.g., Monitoring & Homeostatic Regulation of Animal Vitality)
- Ultra High-Speed Imaging (max. 100 fps - 512x512 pixels)
- 4D Animal Motion Compensation (XYZ & Time)

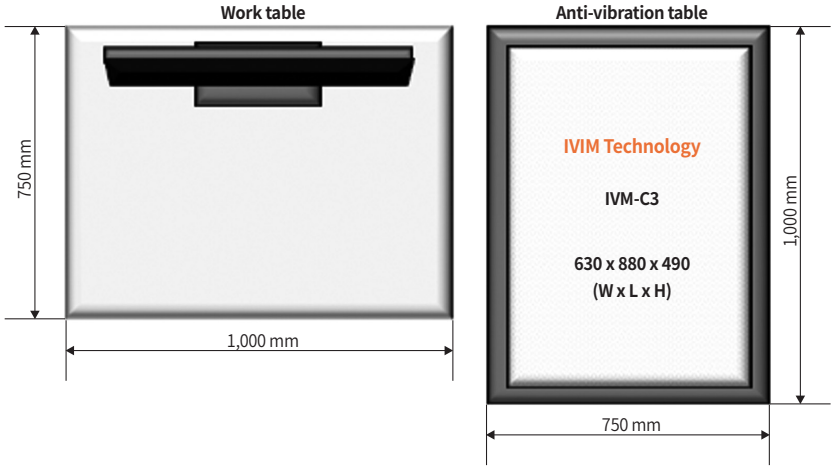
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SPECIFICATIONS

Laser	**Confocal Laser Unit**	• 405 nm (20mW), 488 nm (20mW), 561 nm (20mW), 640 nm (20mW)
Fluorescence Detector	**Confocal Detector**	• Wavelength : 185-900 nm (DAPI, CFP, GFP, YFP, RFP, Cy5, Cy5.5, etc.) • 4 Ultra-broadband high SNR PMTs (UV to Near IR, Ultra High Sensitivity, Low Dark Current) • 25-2,000 µm variable pinhole
	Variable Emission Filter (Optional)	• 2 or 6 emission filters can be mounted on each of four detectors
Scan Head	**Scanner**	• Polygonal mirror (Fast axis scanning, Max. 66 kHz) • Galvano scanner (Slow axis scanning, Max. 200 µs/step)
Imaging Head	**Objectives**	• Max. 5 objectives are mountable on S/W controlled motorized turret (1X – 100X) • Compatible for commercial objectives
Image	**FOV**	• 100 x 100 μm^2 - 10 x 10 mm^2
	Pixel Resolution	• Max. 2,048 x 2,048 pixels
	Imaging Speed	• Standard : 30 fps @ 512 x 512 pixels • (Optional) High Speed : 60 fps @ 512 x 512 pixels • (Optional) Ultra HighSpeed : 100 fps @ 512 x 512 pixels
Animal / Sample Stage	**3D Stage**	• Travel Range : 50,000 x 50,000 x 75,000 µm (XYZ) • Micromanipulation (Max. 0.2 µm resolution) • 3-axis independent control with Jog Dial & IVM Engine software
	Specimen Holder	• Flexible-design universal *in vivo* / *ex vivo* / *in vitro* specimen holder can be mounted • (Optional) Homeothermic warming system, Holders for window chamber
Animal Motion Compensation	**4D *In vivo* Imaging Motion Compensation**	• 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 • Controllable by IVM Engine software
Additional *In vivo* Modules	**Live Animal Maintenance Unit**	• Body Temp. Monitoring & Feedback Heater Control, including tablet PC • 4CH Rectal Probe, Body Plate Heater, Thermometer Sensor & Cover Glass Heater
	***In vivo* Imaging Chamber SET**	• Standard Dorsal Skinfold Chamber SET • Lung Imaging Chamber SET • Cranial Window SET • Abdominal Imaging Window SET • Pancreas Imaging Window SET • Mammary Imaging Window SET • Heart Imaging Window SET
	Inhalation Anesthesia System	• Whole Rodent Animal Inhalation Anesthesia System • Anesthesia Mask and Connections
Engine & Studio Software	**Image Display**	• Independent 4 single channel display (RGBA channel) • Overlay channel display (Selection among RGBA channel)
	***In vivo* Imaging Mode**	• Mosaic imaging (XY), Z-stackimaging (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)

New All-in-One IVM Series Size Information



SCAN ME

IVIM Technology, Inc.
Webpage www.ivimtech.com
Contact information@ivimtech.com
TEL +82-2-431-7450
FAX +82-2-3400-0450

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