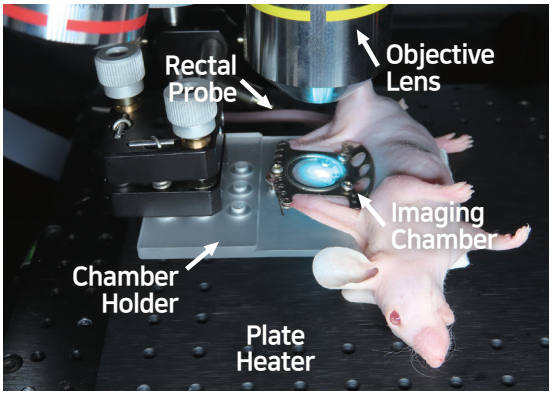
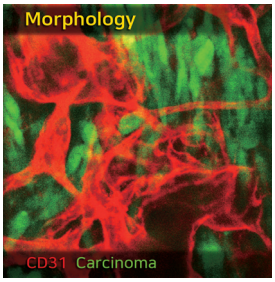
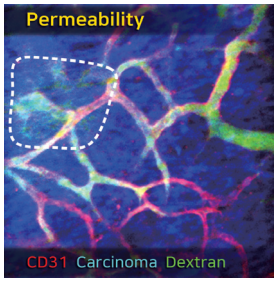
IVM-C (Confocal)
In Vivo Live Cell Imaging Platform

IVIM TECHNOLOGY









Easy & highly efficient multi-color simultaneous imaging

IVM-C is the All-in-One IntraVital Confocal Microscopy System, optimized for in vivo imaging experiments. Especially, because it is equipped with a 4-wavelength laser and 4 high-sensitivity confocal detectors, IVM-C is the optimal system to observe highly diverse, dynamic multi-cellular behaviors in live animals simultaneously with 4 different fluorescence colors.

Key features of IVM-C (Confocal)

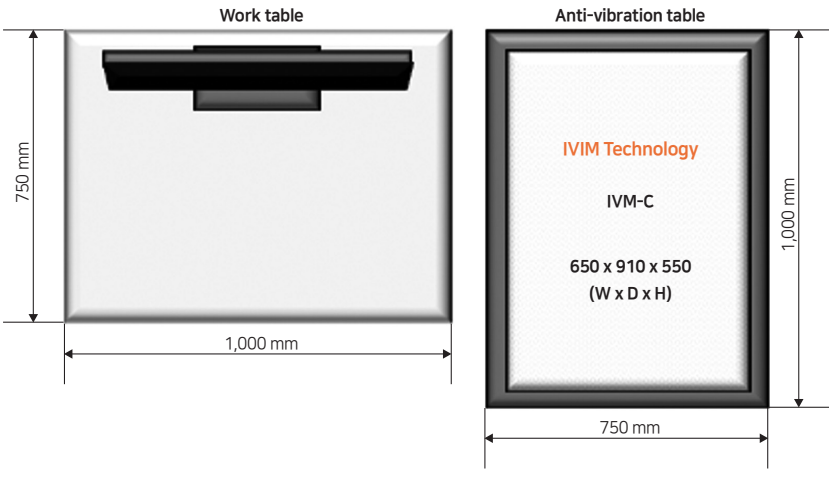
- World's 1st all-in-one IntraVital Microscopy for live animal model fully integrated In Vivo Maintenance Unit / In Vivo Animal Stage (e.g. Monitoring & Homeostatic Regulation of Animal Vitality)
- Ultra High-Speed Imaging (max. 100 fps - 512x512 pixels)
- 4D Animal Motion Compensation (X,Y,Z & Time)
- Customizable design for modifications according to the customer's requests and accommodations for future updates

IVIM Technology, Inc. All rights reserved.

Webpage www.ivimtech.com | **Contact** information@ivimtech.com
TEL +82-2-431-7450 | **FAX** +82-2-3400-0450

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 (16 steps)
	Variable Emission Filter (Optional)	• 6 or 2 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 objective
Image	FOV	• 100 x 100 μm² - 10 x 10 mm²
	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 High Speed : 100 fps @ 512 x 512 pixels
In Vivo Animal Stage	3D Stage	• 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
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
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
	Inhalation Anesthesia System	• Rodent Animal Inhalation Anesthesia System
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-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)



IVIM Technology, Inc. All rights reserved.

Webpage www.ivimtech.com | **Contact** information@ivimtech.com
TEL +82-2-431-7450 | **FAX** +82-2-3400-0450