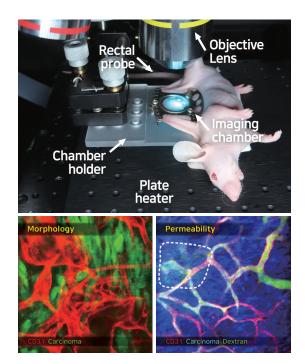


IVM-C (Confocal) In Vivo Live Cell Imaging Platform TECHNOLOGY







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.

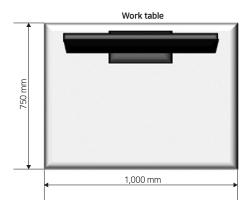
Key features of IVM-C (Confocal)

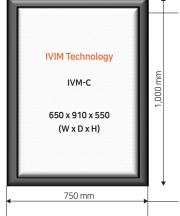
- World's 1st all-in-one IntraVital Microscopy for live animal model Fully Integrated In Vivo Maintenance Unit / In Vivo Animal Stage (e.g. Monitoring & Homeostatic Regulation of **Animal Vitality)**
- Ultra High-speed Imaging (max. 100 fps 512x512 pixels)
- 4D Animal Motion Compensation (X,Y,Z & Time)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

Specifications			
Laser	Confocal Laser Unit	• Max. 4 laser unit (405, 420, 445, 473, 488, 505, 514, 532, 561, 633, 642, 660, 685, 705, 730, 785 nm)	
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. 6 objectives are mountable on S/W controlled motorized turret (1X - 100X) Compatible for commercial objective 	
lmage	FOV	• 100 x 100 µm2 - 10 x 10 mm²	
	Pixel Resolution	• Max. 2,048 x 2,048 pixels	
	Imaging Speed	• 30 fps @ 512 x 512 pixels (Max. 100 fps), 15 fps @ 1,024 x 1,024 pixels (Max. 50 fps)	
Sample 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	
	Specimen Holder	Flexible-design universal specimen holder can be mounted	
		In vivo	 U-shape window bracket for skins and inner organs (optional) Homeothermic warming system with heating pad and body temperature probe (optional) Small animal inhalation anesthesia system (optional) Long term imaging holders for transplanted window chamber (e.g. Cranial window, Abdominal imaging window, Dorsal skinfold chamber, etc.)
		Ex vivo In vitro	A single glass slide or culture dishes
Motion Correction	4-D In Vivo Imaging Motion Compensation & Tracking	 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 	
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) 	









Anti-vibration table

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