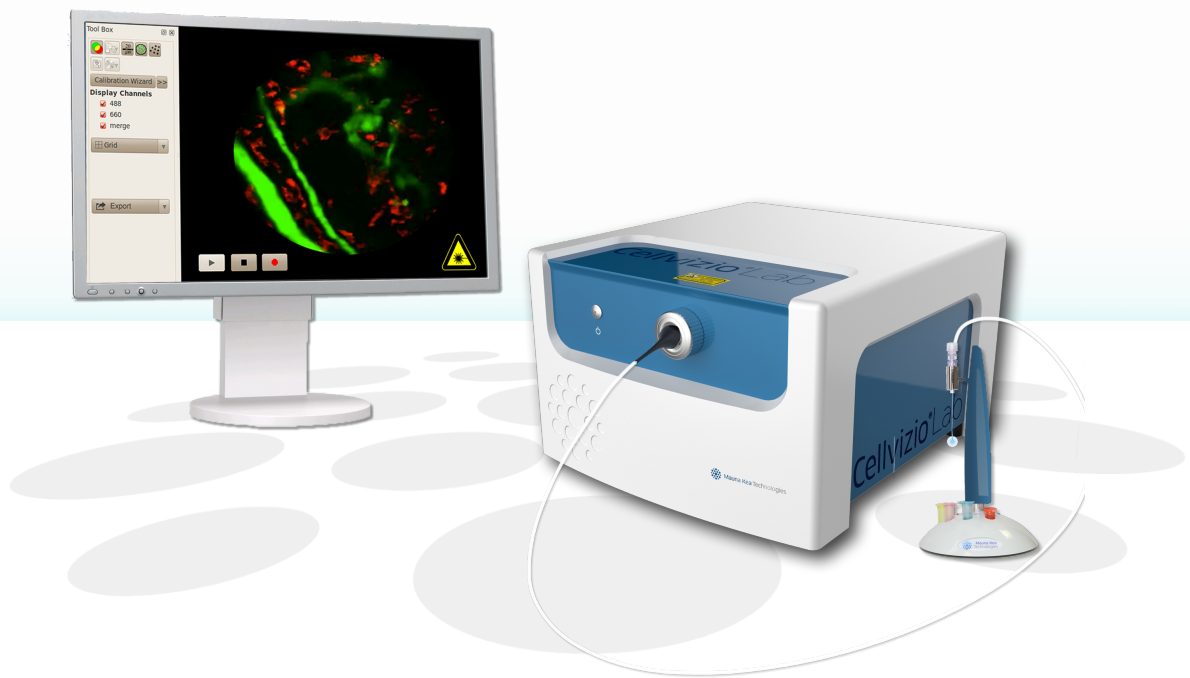


Cellvizio[®] Dual Band

In Vivo Molecular Imaging
at Cellular Resolution

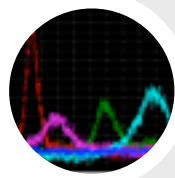
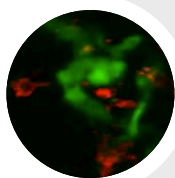
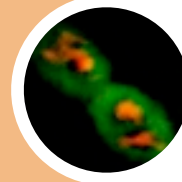


Cellvizio® Dual Band

Probe-based Confocal Laser Endomicroscope (pCLE) designed for *in vivo* Molecular Imaging at two wavelengths

Features

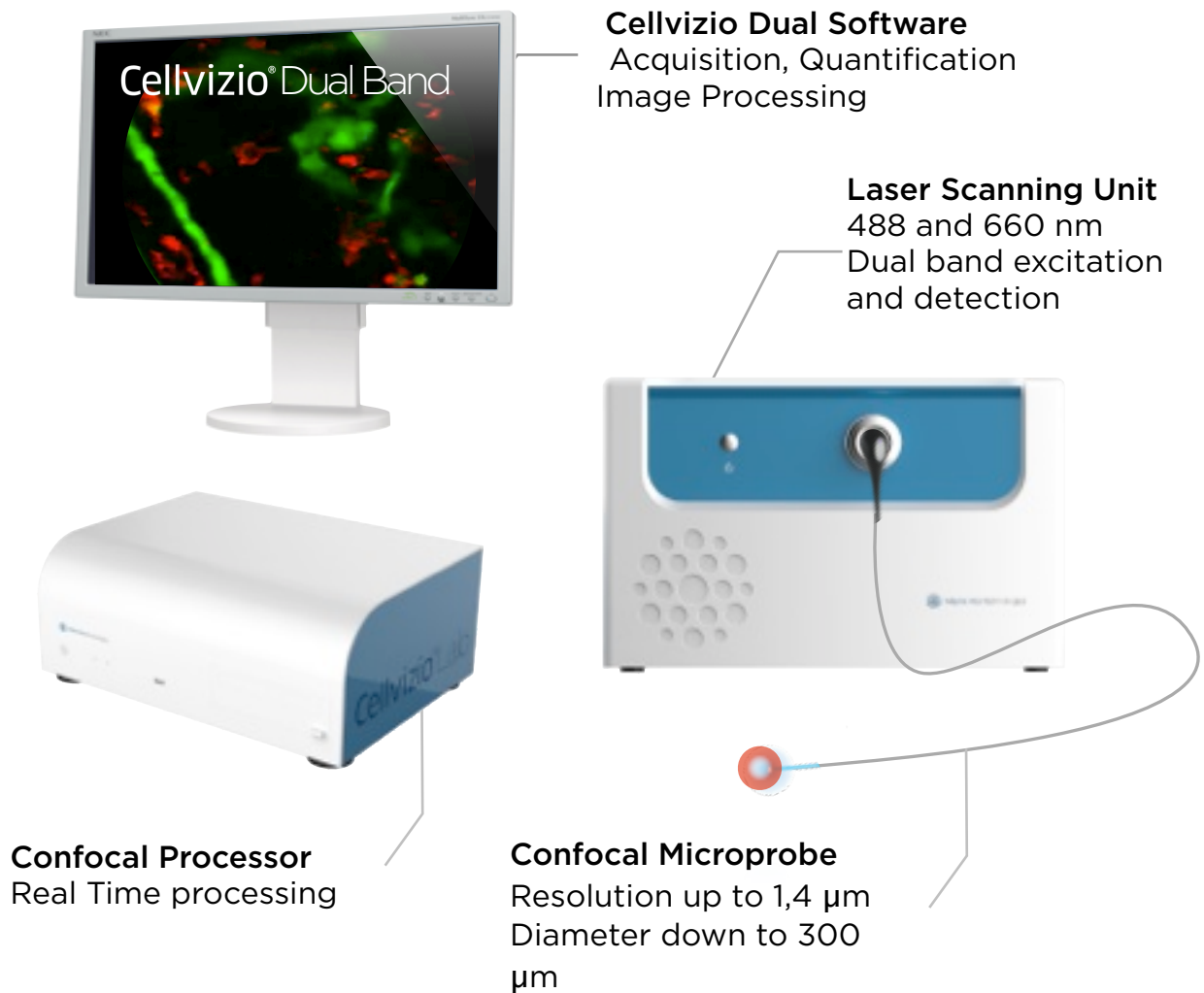
- Real-time, simultaneous excitation/detection of 2 channels
- Resolution up to 1,4 μm
- Smooth video recording at 9 frames per seconde
- A wide range of microprobes with various optical specificities
- Monitor physiological interactions *in vivo* with low invasiveness



- A large set of **new applications** including oncology, neurobiology, stem cells, drug delivery and much more
- Easy to use, to install
- Cutting-edge image processing and Quantification features
- New, intuitive graphical interface
- Operating system: Linux-based, flexible
- Softwares: Cellvizio Dual Software, Cellvizio Dual Viewer






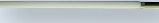

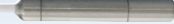


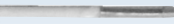
Technical Specifications



Cellvizio® Dual Band

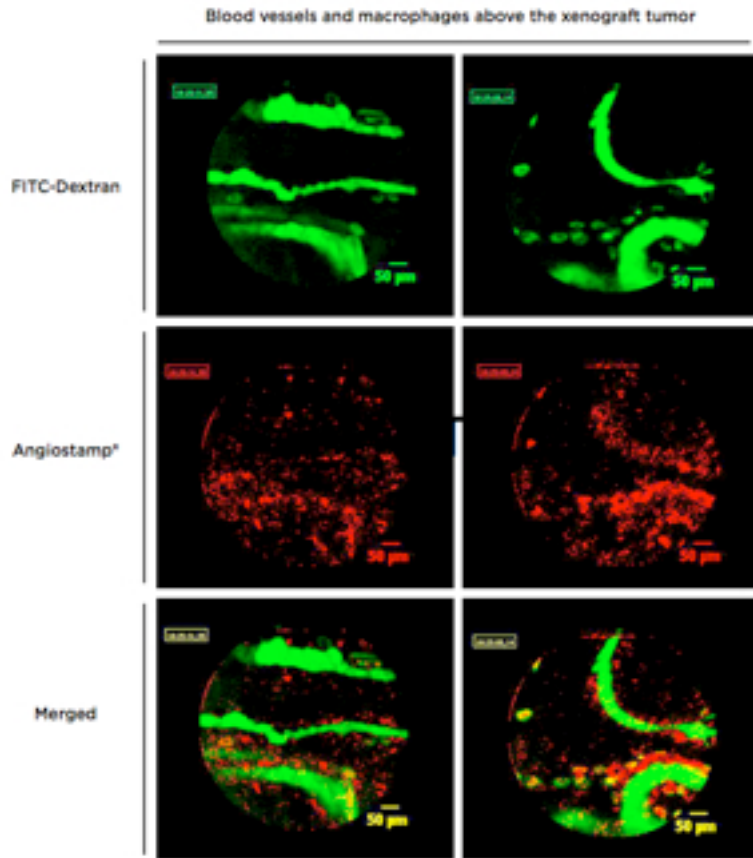
Excitation Wavelengths	Laser 1: 488 nm	Laser 2: 660 nm
Collection Bandwidths	505 - 700 nm	680 - 900 nm
Temporal Resolution	9 frames per second	
Signal Encoding	14 bits	
Image Export	.png, .bmp, .jpeg, .tiff, .mhd	
Movie Export	.avi, .mpeg, .mp4, .swf,	
Power Requirements	150 W (110 - 240 V)	
Laser Class	2M	
Size and Weight	480 x 260 x 500 mm, 28 Kg	

Confocal Microprobes

	Model	Applications	Tip Diameter (mm)	Lateral Resolution (μm)	Optical Sectioning (μm)	Working Distance (μm)	Max Field Of view (μm)
S Series Surface Imaging	CerboFlex™ CerboFlex™ ^J 	Deep brain imaging, designed for permanent implantation on freely moving mice <small>Part of the NeuroPak™ solution</small>	0,35 0,47	3,3	15	0	325
	S-300* 	Brain, deep brain in mice, other organs at depth if low invasiveness is mandatory	0,3	3,3	15	0	300
	S-0650* 	Brain, deep brain in rats, other organs at depth if low invasiveness is mandatory	0,65	3,3	15	0	600
	S-1500 	General applicability, can be used to check fluorescence sensitivity in most targets	1,5	3,3	15	0	600
M Series Hi-Res Imaging	UltraMiniO 	Vessels, angiogenesis, cell fate, cell morphology, utility depends on cell layer thickness and invasiveness	2,6	1,4	10	60	240
	MiniO/30 	Vessels, angiogenesis, cell fate, cell morphology, utility depends on cell layer thickness and invasiveness	4,2	1,4	10	30	240
	MiniO/100 	Vessels, angiogenesis, cell fate, cell morphology, utility depends on cell layer thickness and invasiveness	4,2	1,4	10	100	240
Z Series Depth Imaging	Z-1800 	Blood flow through the vessel (without penetration) image deeper cell layers of tumor, organ or tissue	1,8	3,5	70	100/170 at 488/660	600
	Mini-Z 	Cavities, eye	0,94	3,5	30	50/70 at 488/660	325

* Beveled or Flat tip

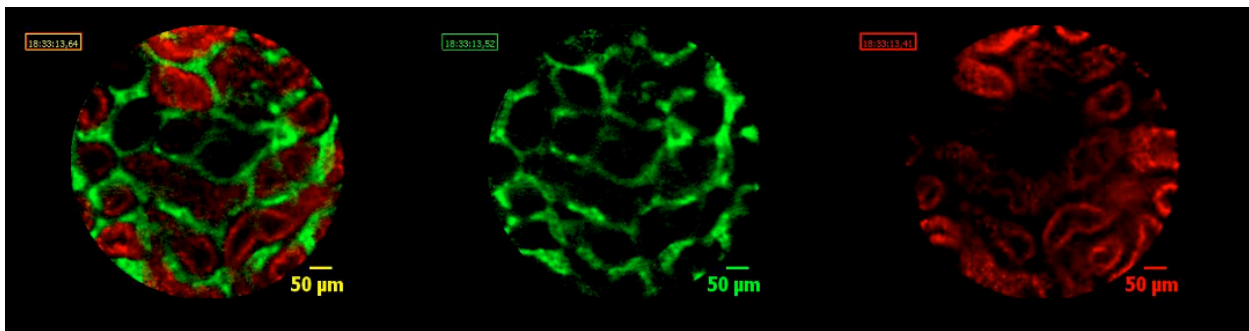
Applicative Outcomes



Real-time videos acquired on a tumor xenograft implanted on a nude mouse

Cellvizio Dual Band provides unambiguous coregistered signal from two different fluorochromes.

FITC Dextran was injected as a vessel indicator, combined with AngioStamp, a molecular marker that targets specifically AvB3 integrin, an endothelial pattern overexpressed in tumor neovessels.



3 hours after the injection, renal elimination can be appreciated

- FITC Dextran (Green)
- AngioStamp (Red)