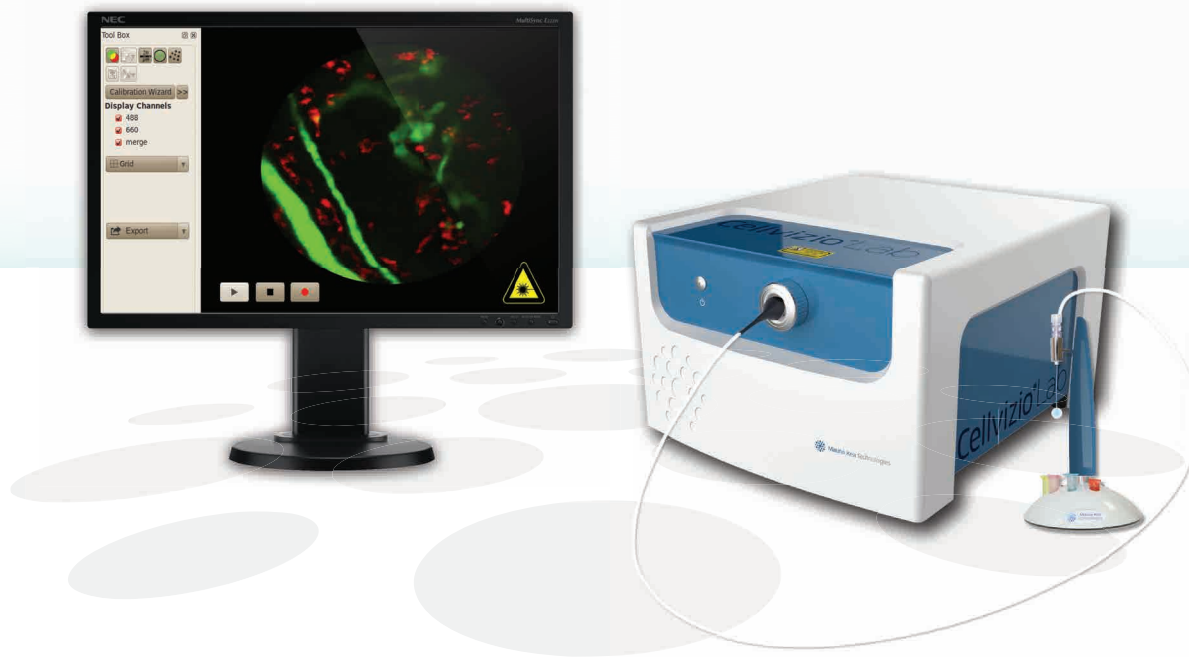


# Cellvizio® DualBand

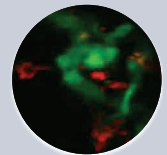
IN VIVO MOLECULAR IMAGING  
AT CELLULAR RESOLUTION



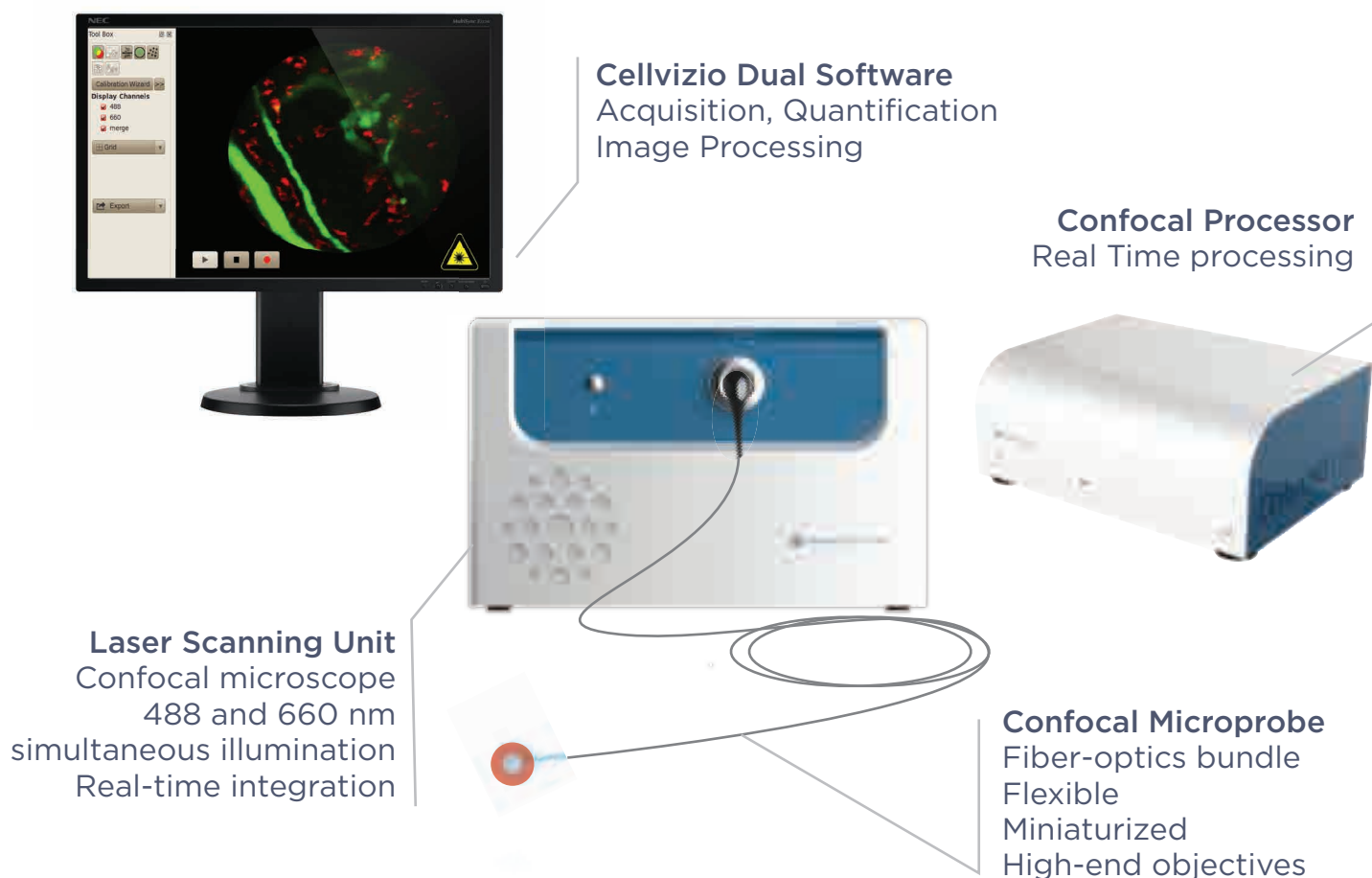
Probe-based Confocal Laser Endomicroscope (pCLE) designed for *in vivo* Molecular Imaging of cellular to subcellular processes at two wavelengths.

## Features

- Dual Band Excitation and Detection
- *In vivo and in situ* Imaging
- Resolution up to 1,4  $\mu\text{m}$
- Real-time smooth video recording at 9-50 fps
- A wide range of microprobes **tailored to your application**
- Monitor physiological interactions *in vivo* with **minimal invasiveness**
- A large set of **new applications** including:  
Cancer and angiogenesis, neurobiology, inflammation, immunology, biodistribution, colocalization studies...
- Easy to use and to install
- Cutting-edge image processing
  - Quantification features, Kinetics analysis
  - New, intuitive graphical interface
  - Operating system: Linux-based, flexible












## Technical Specifications



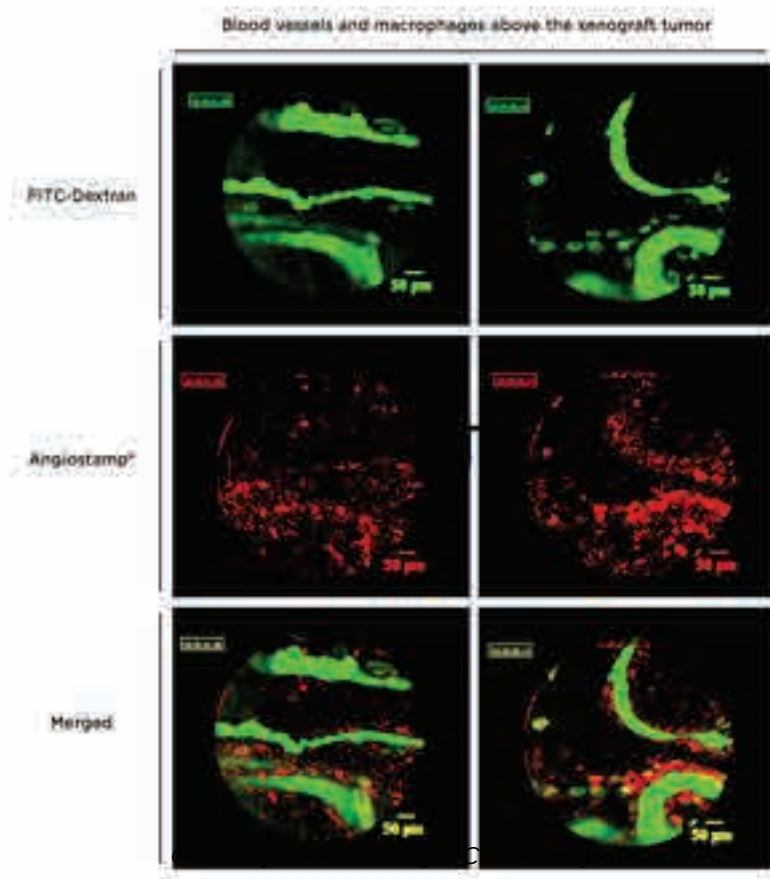
Excitation Wavelengths	Laser 1: 488 nm	Laser 2: 660 nm
Collection Bandwidths	502 - 633 nm	673 - 800 nm
Temporal Resolution	9 - 50 frames per second	
Image Export	.png, .bmp, .jpeg, .tiff, .mhd	
Movie Export	.avi, .mpeg, .mp4, .swf,	
Laser Class	2M	
Dimensions and Weight	310 x 480 x 525 mm, 35 kg	

## Confocal Microprobes

	Model	Applications	Tip Diameter (mm)	Lateral Resolution (μm)	Optical Sectioning (μm)	Working Distance (μm)	Max Field Of view (μm)
<b>S</b> <b>Series</b> 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
<b>M</b> <b>Series</b> 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
<b>Z</b> <b>Series</b> 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

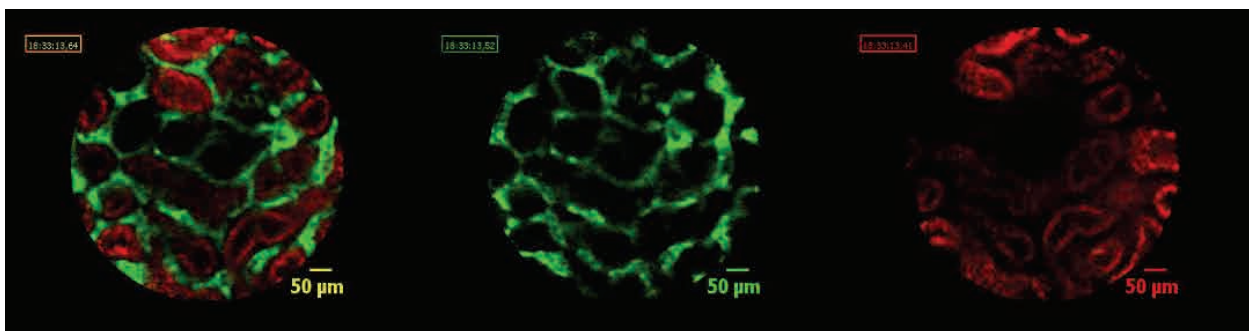
## Applicative Outcomes



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 injection, renal elimination can be appreciated

- FITC Dextran (Green)
- AngioStamp® (Red)