

## APPLICATION NOTE

New technology for large area scans using resonance confocal microscopy

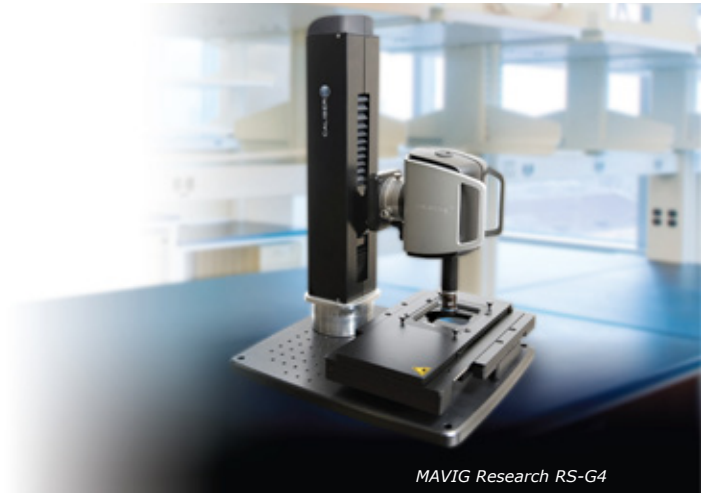
### EXPERIENCE NEW DIMENSIONS IN CONFOCAL

Imagine saving literally weeks of imaging time ...  
 Time that you could use to do more experiments ...  
 Quicker turnaround time on data and projects ...  
 Shorter time to publication.

*RS-G4 makes you more productive!*

### LARGE AREA CAPTURE

Huge areas ... but with sub-cellular resolution.



MAVIG Research RS-G4

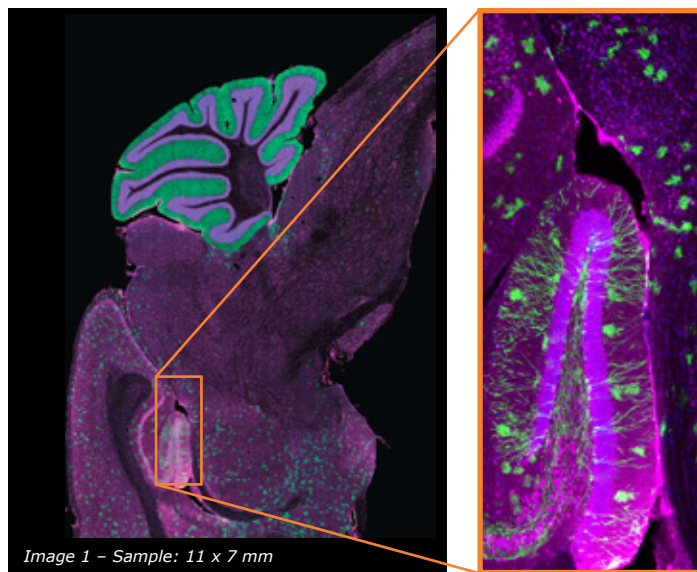


Image 1 - Sample: 11 x 7 mm

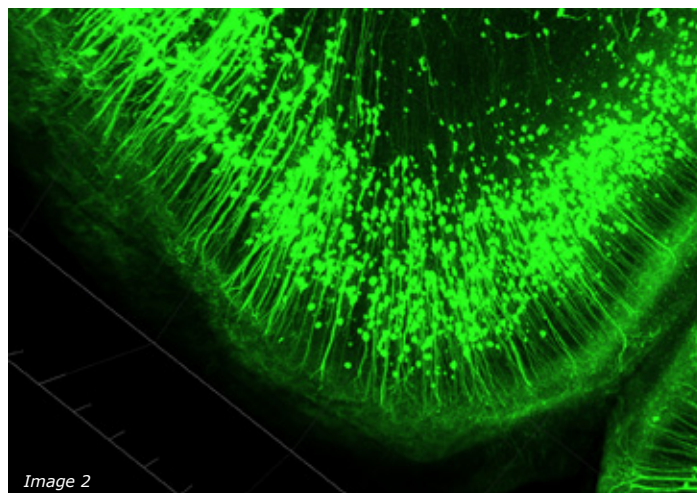
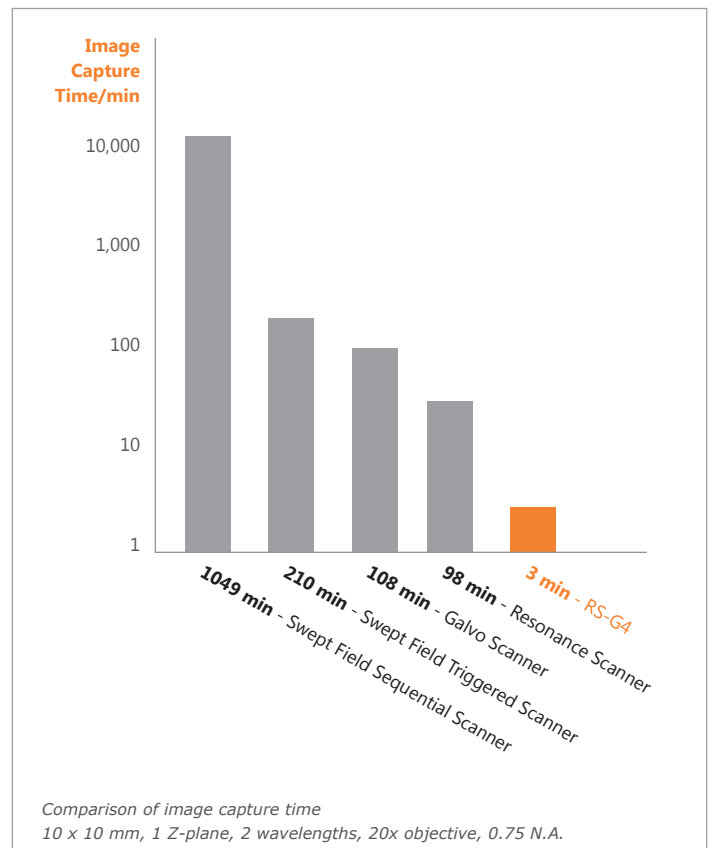


Image 2

### EXPERIENCE SPEED OF IMAGE CAPTURE

Image capture times previously not possible.



## CLEARED TISSUE IMAGING

View cleared tissue with the instrument that was made for providing the highest resolution over the largest lateral area, with best Z-resolution your optic can provide.

### FEATURES

- No lateral image shift with regard to size
- Higher resolution-limited only by NA of optic
- Best Z-resolution due to confocal-optic NA selected
- Refractive index match with immersing media and clearing protocol
- Illumination is exactly the same across the entire sample
- Easy to assemble
- Compatible with all clearing approaches

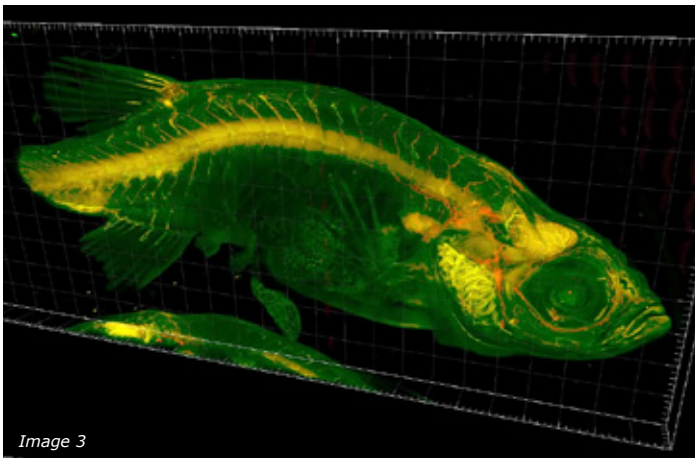


Image 3

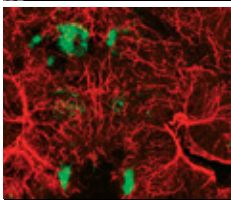


Image 4

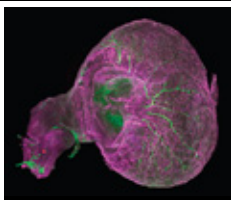


Image 5

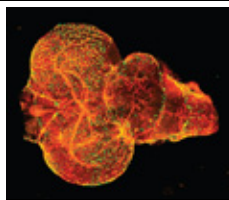


Image 6

## CONFOCAL 3D

Mosaic strip scanning provides large area mosaics at step sizes from nanometer – micrometer – millimeter.

Experience 3D volume views and data that provides new levels of knowledge in your data.

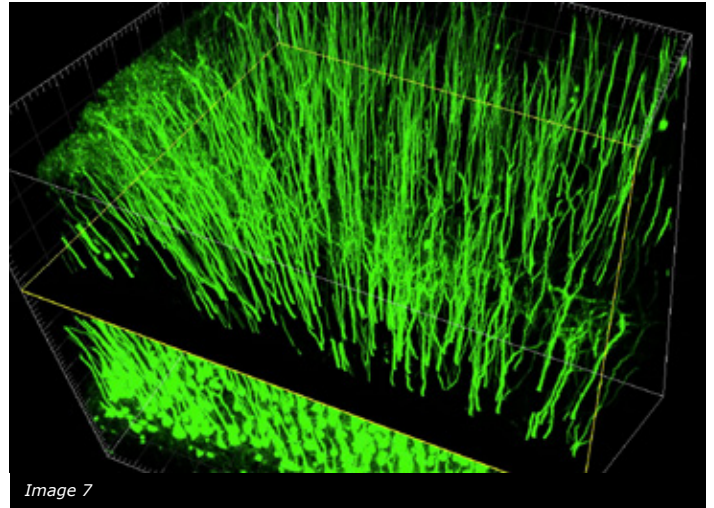


Image 7

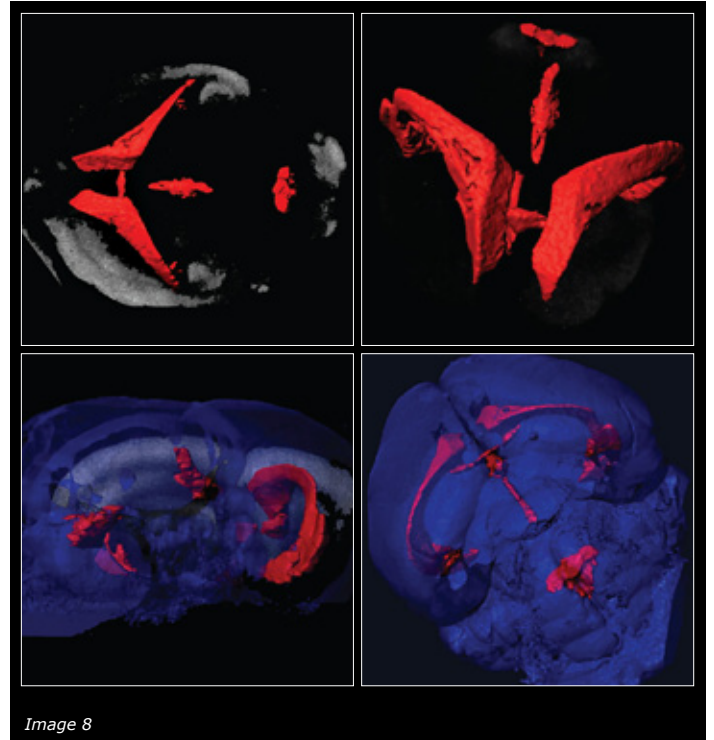


Image 8

**Don't take our word for it. Let us show you.**

Contact us today at +49 (0) 89/420 96-319 or [research@mavig.com](mailto:research@mavig.com) and schedule a demo to see the RS-G4 in action.

### Image Courtesy:

1 – Ahmet Hoke, John Hopkins Med. Institute.  
5 – Dan Castranova, NIH Bethesda.

2 – Hu Zhao, U of TX A&M.  
6 – Dan Castranova, NIH Bethesda.

3 – Dan Castranova, NIH Bethesda.  
7 – Hu Zhao, U of TX A&M.

4 – Simon Watkins, U of Pitt.  
8 – Simon Watkins, U of Pitt.