# RS-G4

MAVIG Research

# SHOW ME!

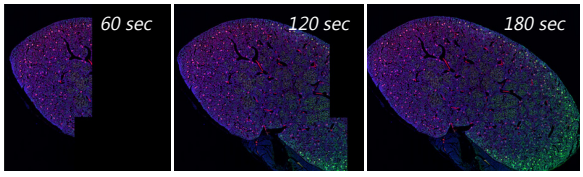
## Imaging large areas? Limited by image acquisition time?

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

*MAVIG Research has the answer. Our innovative RS-G4 makes YOU more productive. Let us show you how…*

### Wow! That was FAST!

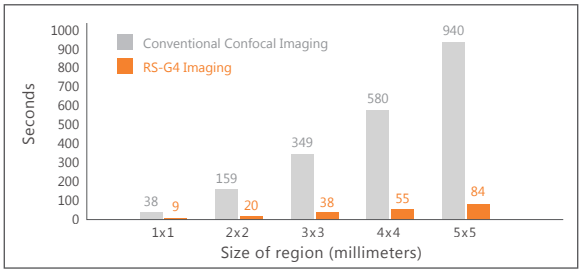
This is an image of a kidney section, stained with Alexa Fluor WGA, Alexa Fluor Phalloidin and DAPI. Complete time-to-image for this 3 color, 6 x 4 mm area: Just 180 seconds.




Imagine collecting a high resolution, dual channel confocal image of a 20 x 20 mm brain section in 9 minutes. Or a 4 x 2 mm, 4-channel confocal image of the head and mouth parts of a fly in 540 seconds. That would change your workflow!

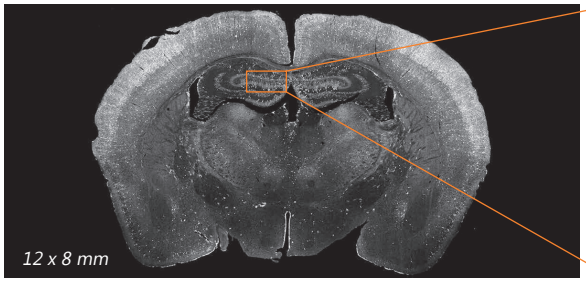
### How FAST?

Compare RS-G4's image acquisition time to conventional confocal. Imagine saving anywhere from 75% to 90% on imaging time. Remember… more time for experiments. Quicker turnaround. Faster time to publication. That's you, being more productive with the RS-G4.




### That's HUGE!

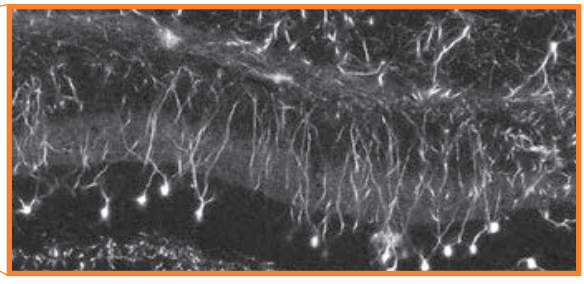
This 12x8 mm mouse brain section was part of a study regarding neuronal responses to stress. The time for a 2-channel confocal scan? Just 270 seconds (~4 minutes), approximately 10% of the time required by other currently-available systems.




RS-G4's unique flexible design accommodates scan areas from a few adjacent fields up to 120 x 80 mm. That's 50% longer than a typical microscope slide and more than 3 times as wide. Imagine that flexibility in a multi-user facility!

### … but what about image QUALITY?

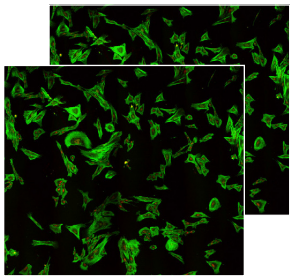
Here's an inset from that same brain section. Observe the fine detail. And look: No seams! Amazing, because to form the original 12 x 8 mm image, the RS-G4 scanned and integrated 1050 fields.



RS-G4 provides all the advantages of confocal imaging: Higher resolution. Crisp, sharp images. Coupling confocal with our proprietary high speed strip mosaic processing (see the other side) produces dramatically increased productivity and images rich with scientific detail. Visit our website to zoom and navigate for yourself.

# RS-G4

## How do you DO that?



The cornerstone of RS-G4's innovative performance is high-speed strip mosaic imaging. On the hardware side, continual stage movement is coordinated with the resonant scanning of the confocal microscope. Simultaneously, a proprietary algorithm aligns and assembles mosaic strips with to-the-pixel-level accuracy.

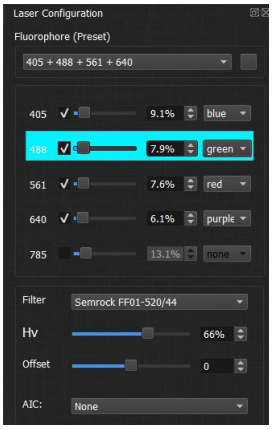
The result? High precision image mosaics, on-the-fly.

## RS-G4 is … EASY

The User Interface is intuitive. Touch of a button. Set up a sequence for image collection, scan time, X-Y-Z locations, Z-stacks, lasers, etc. Clone a step, delete a step, automate.

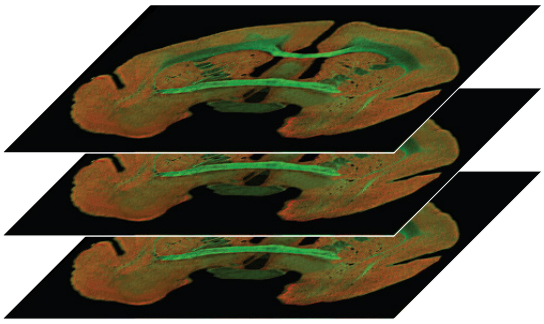
RS-G4's user interface is really this simple.

Again, all part of making YOU more productive.




## … and FLEXIBLE

RS-G4 is built from the ground up to give you choices.



- **Versatile.** Accommodates many different sample configurations and viewing angles
- **Multi-dimensional.** Automated imaging for single channel, simultaneous and sequential reflectance and fluorescence imaging
- **Reflectance ready.** Use reflectance confocal mode to visualize unstained structures in living and fixed tissue.
- **Optically agile.** Supports standard dry, oil and water immersion objectives
- **Spectrally facile.** Multiple laser launch provides 405 nm, 488 nm, 561 nm, 640 nm; and, critical for deep tissue neuroscience, 785 nm
- **3D Ready.** Scan Z stacks in native 16-bit TIFF format. Just import them into Image J, Imaris or your favorite image processing program.

## … and amazingly COMPACT!

The RS-G4 is a unique imaging system. Designed from the ground up, it has the imaging power of a confocal microscope matched with greater coverage than a whole slide scanner.

Look at those measurements. Essentially 40 x 46 x 66 cm, RS-G4 takes up slightly more room on your bench then a laptop.

Super space-saving for a core facility, neat for an individual lab.

***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*** and schedule a demo to see the RS-G4 in action for yourself.

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