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Caliber I.D. debuts the RS-G4, a new class of confocal microscope fusing extraordinary speed with multiple wavelengths for very large area imaging

(ANDOVER, MA October 4, 2016). Caliber I.D. launches the RS-G4, a new class of modular confocal microscope that delivers confocal's expected high resolution and clean contrast while overcoming its limited scan areas. Scanning large areas at lightning fast speeds, RS-G4 dramatically cuts the time required for efficient study of next-generation large format samples including brain slices, plant cross-sections, or large fields of cells or tissue critical for high-throughput screening.

Consider the attached image of a whole mouse brain (Figure 1). The RS-G4 scanned and stitched 1050 fields to image this 12mm x 8mm area (approximately 0.5" x 0.25") in just 270 seconds (4.5 minutes), approximately one-tenth the time required by other currently-available systems. Yet, as demonstrated by the inset, the image retains all the confocal detail and resolution offered by the 40x/1.30NA oil immersion objective.

The cornerstone of RS-G4's innovative performance is its 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 stitching algorithm assembles and aligns mosaic strips with pixel level resolution. Hardware and software control are integrated under an easy-to-use, intuitive GUI. Adding a new laser launch opens opportunities for fluorescence excitation at 405nm, 488nm, 561nm, 640nm and, critical for deep tissue neuroscience, 785 nm. In addition, the RS-G4 can collect large area 3D image stacks that can be readily imported by any conventional processing package such as Image J or Imaris. Surprisingly, all of this capability comes in a small 18" x 15" footprint.

"We at Caliber are thrilled to be launching this revolutionary product (the RS-G4) into the research market," said Robert Kelley, Caliber I.D.'s Vice President of Sales. "For researchers, this increased scan speed means greater productivity and shorter time to publication."

Caliber I.D.'s RS-G4 with the new multi-laser launch will be running samples in BOOTH# 130 at the annual meeting of the Society for Neuroscience, November 12-16, in San Diego, CA.

For an interactive preview of this innovative new class of microscope, visit <http://bit.ly/RSG4P>. To schedule a demonstration at Neuro, call Robert Kelley, Vice President of Sales, at (585) 239-9800.

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About Us:

Caliber Imaging & Diagnostics, Inc. is a global leader in the design and manufacture of in-vivo and ex-vivo confocal microscopy imaging solutions for the medical device, clinical research and scientific research industries. With more than 20 years of experience in confocal microscopy equipment, Caliber I.D.'s VivaScope product portfolio has been covered by more than 500 publications. The addition of its latest device, the RS-G4, has expanded Caliber I.D.'s product portfolio to include a confocal microscope designed exclusively for the research scientist. For more information about Caliber I.D. visit www.caliberid.com.