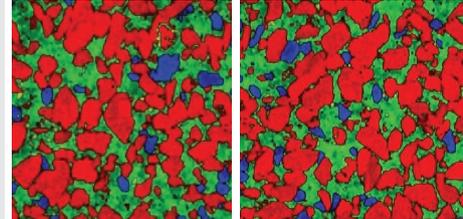


SWIFTXS

Supercharge your Raman Imaging!

A New Dimension in SuperFast Confocal Raman Imaging

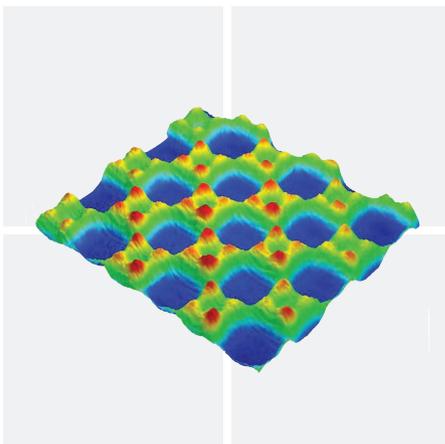


Key Features & Benefits

SWIFTXS pushes the speed of confocal Raman imaging to the next level. Accelerate your chemical imaging and generate high definition Raman images in minute timescale. **Now that's Supercharged Raman!**

SWIFTXS integrates the HORIBA's newest EMCCD detector, combining unmatched speed and ultra-sensitivity.

- **Supercharged Speed:** Improve your sample throughput up to 1400 spectra per second.
- **High Definition Images:** MegaPixel Raman images are now possible in a single fast Raman map, providing both a broad overview and detailed high resolution work in a single experiment.
- **Ultrasensitive:** The Electron Multiplying CCD (EMCCD) technology provides significant increases in **sensitivity**, making it ideal for challenging samples with low signal levels.
- **Fully Confocal Fast Imaging:** The true confocality of HORIBA's Raman spectrometers will give you the highest resolution, image detail and flexibility for analysis of small particles and thin layers.



Structured semiconductor device mapped with **SWIFTXS**

40 200 spectra
Total time = 50 s

Three Raman Imaging Modes

The EMCCD detector can be operated in three modes:



#1

Standard Mode: Slow scan CCD operation

For control of sensitivity, dynamic range and ultra low readout noise for low photon / slow scan applications



#2

SWIFTXS Ultra Mode

Fastest Raman imaging offering up to 1400 spectra per second for real life images in seconds.



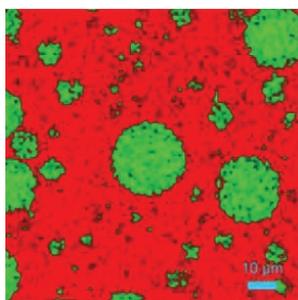
#3

SWIFTXS High Contrast Mode

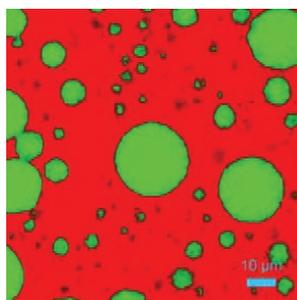
Combination of fast readout rates and enhanced signal - the best combination for difficult imaging samples and improved S/N imaging and contrast.

Applications

Standard Mode vs SWIFTXS - Polymer Blend Mapping



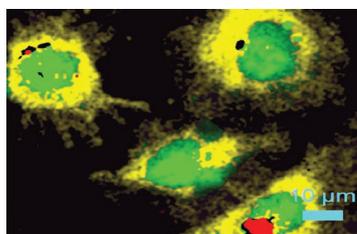
Standard Mode



SWIFTXS

10 000 spectra
Scan range = 100 µm x 100 µm
Step size = 1 µm
Same acquisition time for standard mode and SWIFTXS
Enhanced contrast with SWIFTXS

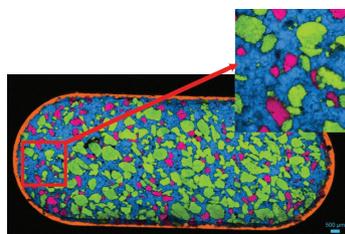
Bio Sensitivity - Cells in a microtubule matrix



40 533 spectra
Scan range = 92 µm x 71 µm
Step size = 0.4 µm
Total time = 5 min 15s

SWIFTXS

MegaPixel Image - Pharmaceutical Tablet



>2.6 million spectra
Scan range = 1.9 cm x 0.9 cm
Step size = 8 µm
High resolution images

SWIFTXS

SWIFTXS Package Includes:

SWIFTXS is compatible with HORIBA's LabRAM HR Evolution and XploRA PLUS Raman microscopes, and includes:

- Synapse EMCCD Camera - Deep cooled and low readout noise
- Electronic and software optimization to reduce the CCD readout zone



HORIBA for Supercharged Raman Imaging
Check out: horiba.com/swiftxs



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