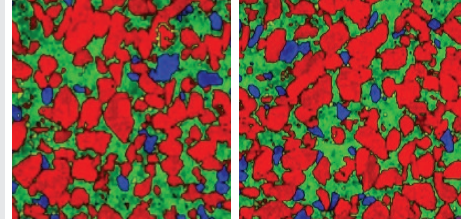


SWIFTXS

Supercharge your Raman Imaging!

A New Dimension in
SuperFast Confocal
Raman Imaging

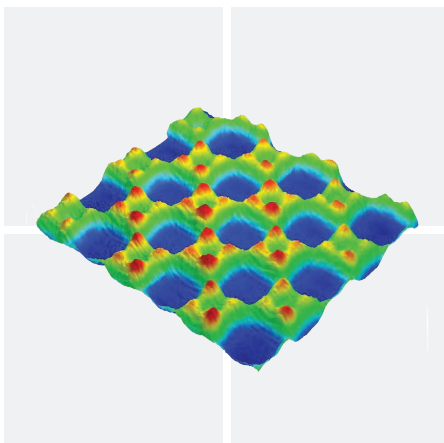


Key Features & Benefits

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.

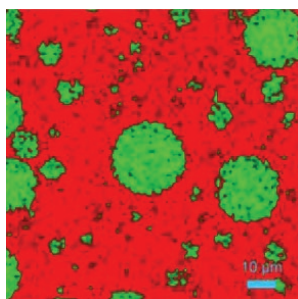


#3

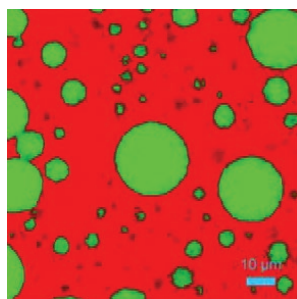
SWIFTXS High Contrast Mode
Combination of fast readout rates and enhanced signal - the best combination for difficult imaging samples and improved S/N imaging and contrast.

Applications

Standard Mode vs SWIFTXS - Polymer Blend Mapping



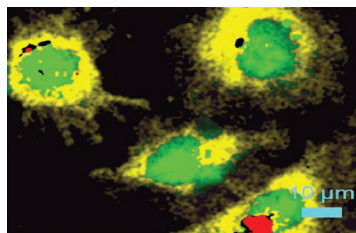
Standard Mode



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

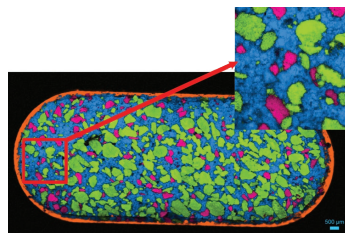
Bio Sensitivity - Cells in a microtubule matrix



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



HORIBA
Scientific

info.sci@horiba.com

www.horiba.com/scientific

USA: +1 732 494 8660
UK: +44 (0)20 8204 8142
China: +86 (0)21 6289 6060

France: +33 (0)1 69 74 72 00
Italy: +39 2 5760 3050
Brazil: +55 (0)11 2923 5400

Germany: +49 (0)6251 8475-0
Japan: +81 (75) 313 8123
Other: +33 (0)1 69 74 72 00