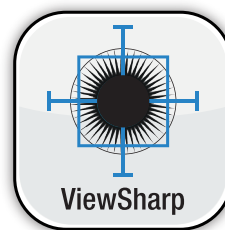# HORIBA
Scientific

EasyNav™: Easy Navigation Package for Optimal Raman Imaging

Sharp Raman Images in the Blink of an Eye!

The new **EasyNav™ package** makes it easy to navigate through your image and acquire sharp Raman images in the blink of an eye, thanks to three new revolutionary applications: **NavMap™**, **NavSharp™** and **ViewSharp™**.

NavMap   **NavSharp**   **ViewSharp**

Unique Features & Benefits

With the groundbreaking EasyNav™ package, it is fast and easy to navigate in-focus, in real-time, to identify the region of interest and obtain sharp, clear Raman chemical images.

EasyNav™ has been tested and validated on a large variety of samples.

HORIBA NavMap™ + NavSharp™ + ViewSharp™ apps can be used together or separately to deliver a powerful user experience for all Raman users.

- Navigate easily through your image with NavMap™
- Navigate your sharp image in real-time with NavSharp™
- Construct a 3D topography and acquire rapid, in-focus Raman images of the analyzed sample with ViewSharp™

The EasyNav™ package technology is protected by a pending patent.
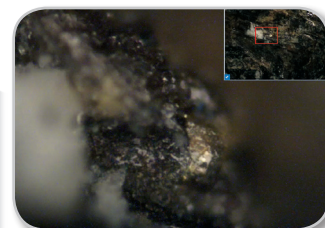
EasyNav™ Package: Main Features

NavMap™

NavMap™ is a new video feature that shows the global sample and the zoomed sample's image in the region of interest simultaneously.
This ensures **straightforward navigation and identification of the region of interest.**

Easy Navigation **Real-time**
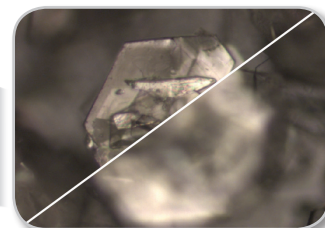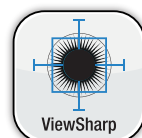
NavMap™ View

NavSharp™

NavSharp™ technology delivers **sharp and rapid navigation on a sample image with any topography,** keeping the field of view constantly focussed on the sample surface.

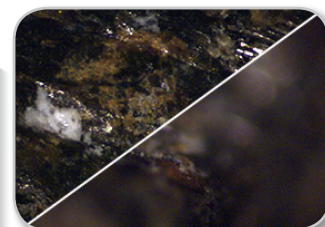**Optimum Focus** **Enhanced User Experience**

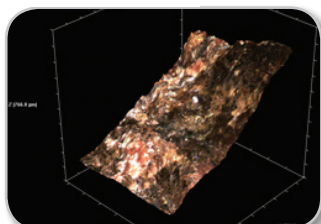With/Without NavSharp™

ViewSharp™

ViewSharp™ constructs an image in which all surfaces are in focus simultaneously, and creates a 3D topography image. ViewSharp™ guarantees the highest focal quality in Raman images, including the topography image, for a unique 3D chemical visualization of the sample. There is no longer a need to do an automatic focus point by point, making it **faster than ever!**
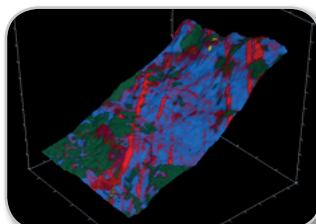
3D Topography **In-Focus Rapid Raman Images**

3D topography of a rutile sample

3D Raman image of a rutile sample

Technical Details

The three technologies NavMap™, NavSharp™ and ViewSharp™ can be used together or work independently.

- Maximum overall height: 30 mm
- Δz (depth), from the objective characteristics: 8.5 µm for 10x, 0.2 µm for 100x
- Δx, Δy (lateral), from the objective characteristics: 1.1 µm for 10x, 0.2 µm for 100x

Recommended Configuration

EasyNav™ is compatible with HORIBA's LabRAM® HR Evolution & XploRA® Series Raman microscopes.

- Windows 10 64 bit, i7 6700, 16 GB RAM
- High resolution video camera ≥ 3 Megapixel
- Bright-field objective (5x for NavMap™, 10x, 50x, 100x)
- High accuracy XY sample stage, motorized z device

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