HINDSIGHT IMAGING, INC.

SpecVu™

Hyperspectral Imaging Solution

Key Features

- Lightweight, compact form factor ideal for **remote sensing** or **inline process monitoring** applications
- **Highest spectral resolution** of any instrument in its size class enables applications such as chlorophyll fluorescence imaging and red edge shift detection
- Proprietary HTVS™-based design (US 8,958,065) provides the highest **signal-to-background ratio**
- Configurable for **pushbroom hyperspectral imaging** or **full 2D imaging** with moderate field of view and high spectral information density.
- Factory-configurable to **select spectral ranges and resolutions** (e.g. 600 nm range with <1.0 nm resolution or 110 nm range with <0.15 nm resolution)
- Large f/2.5 aperture and wide 50 µm entrance slit maximize **light-gathering power**
- Internal uncooled or cooled CMOS camera
- Compatible with wide range of C-mount input objectives to vary FOV from 6 to 22 degrees
- Optional internal computer for **onboard processing**, **2D scanning** or **integrated detection algorithms**

Compact Fixed Mount Spectrograph

Applications

- Surveillance & Defense
- Biomedical Optical Screening
- Precision Agriculture
- Machine Vision
- Environmental Monitoring

System Specifications

Detection Method	Pushbroom Reflectance Hyperspectral Imaging (internal 2D scanning optional)
Spectral Range	VNIR 400-1,000 nm (SWIR models available upon request)
Spectral Resolution	≥ 600 fully-resolved spectral channels with internal 2.3 MP camera
Spatial Pixels	> 1,000 with internal 2.3 MP camera
Optical Input/Output	C-mount and flange mount
Environmental	0-45 °C, noncondensing atmosphere

Hindsight Imaging, Inc., 1 Harvard Street, Suite 302, Brookline, MA 02445 USA
www.hindsight-imaging.com - 617.297.9150 - info@hindsight-imaging.com

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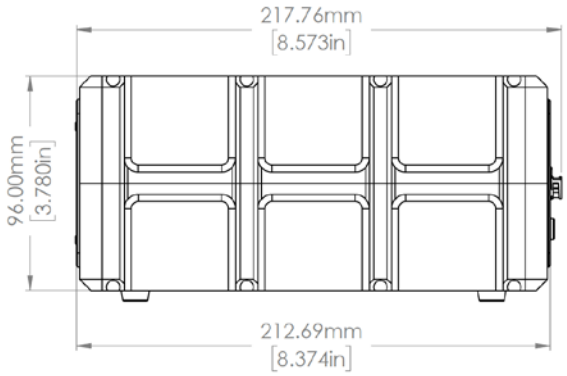
Typical Configurations

Application	VNIR Remote Sensing	Solar-Induced Fluorescence	785 nm Raman Imaging
Model	SpecVu-700-600	SpecVu-725-150	SpecVuR-800-150
Spectral Range	400 -1,000 nm	650-800 nm	800-950 nm (200-2200 cm^{-1})
Spectral Resolution	≤ 1.0 nm	≤ 0.25 nm	≤ 0.20 nm (2-3 cm^{-1})
Dimensions (L x W x H)	212 x 150 x 96 mm (8.4 x 5.9 x 3.8 inches)		
Weight	< 2 kg / 3,000 cm^3		

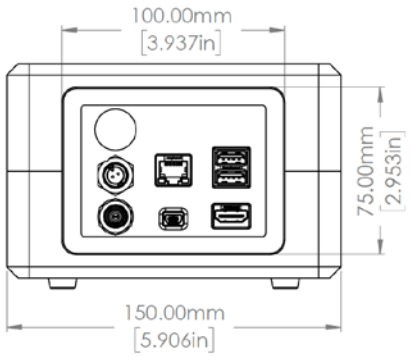
Custom Spectral Ranges, Bandpasses and Resolutions Available—Call for Details

Mechanical Dimensions

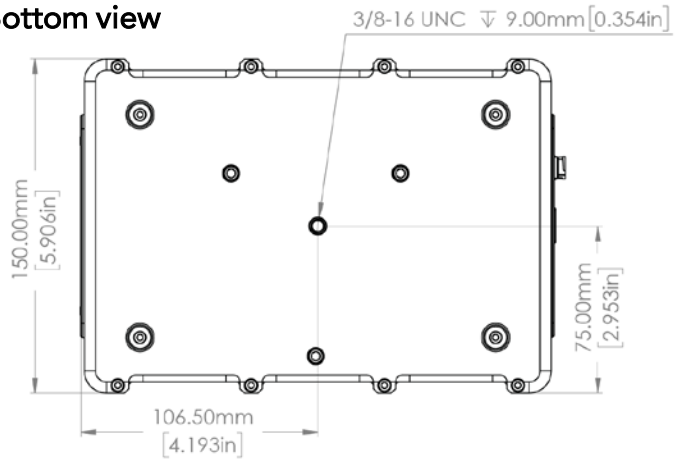
Side view



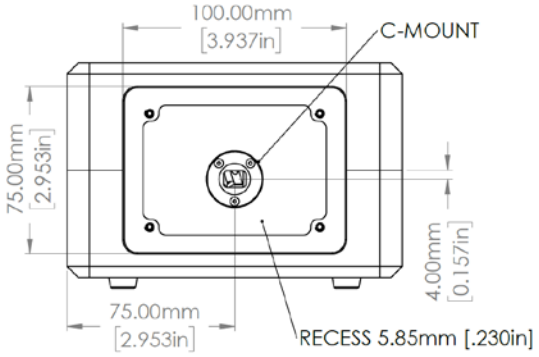
Back view



Bottom view



Front view



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