



APPLICATIONS

- Standoff Detection
- Automatic Target Recognition
- Material Identification
- Chemical Defense
- Environmental Monitoring
- Geologic Mapping
- Biological Research
- Medical Imaging
- Cancer Screening
- Clinical Instrumentation
- Machine Vision

VNIR-20 MINIATURE 3-D SPECTROMETER

SPECIFICATIONS

Data cube: 66 x 52 x 20

66 x 52 spatial
20 spectral

Data Rate: 20 cubes/sec

Spectral Band:

425-675 nm

Spectral resolution (average)

12.5 nm/pixel

Power In:

Driven by USB port

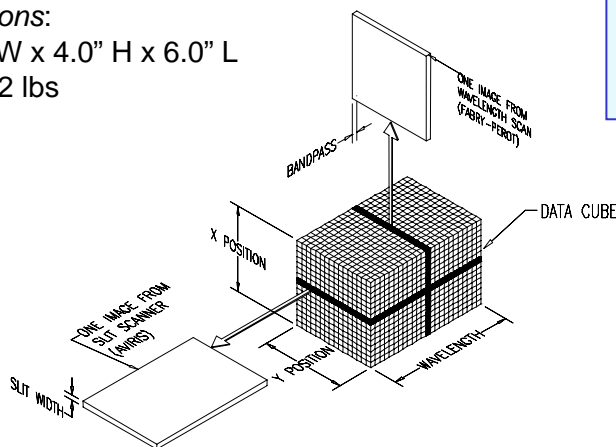
Field of View: Variable

- interchangeable optics

Dimensions:

2.5" W x 4.0" H x 6.0" L

Weight: 2 lbs



HYPERSPECTRAL IMAGING

Combining Imaging with Spectral Analysis

A conventional color image has three colors per pixel, the hyperspectral image can have **hundreds of colors**. This enables the identification of objects by their spectral features.

Typical hyperspectral imagers scan the scene over time to build up a three-dimensional data cube. Two dimensions of the data cube are spatial and the third dimension is wavelength.

The One-Shot Miniature 3D-Spectrometer uses a proprietary *HyperPixel Array™* to capture spectral and spatial information in one **instantaneous** video frame. This eliminates motion artifacts and maximizes signal-to-noise.

- Ideal for moving platforms and transient events
- Ruggedized
- No moving parts
- MWIR and LWIR Systems under development
- Unique Patent Pending Technology

FOR APPLICATION PARTNERSHIPS OR CUSTOM DESIGNED SOLUTIONS CONTACT

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