

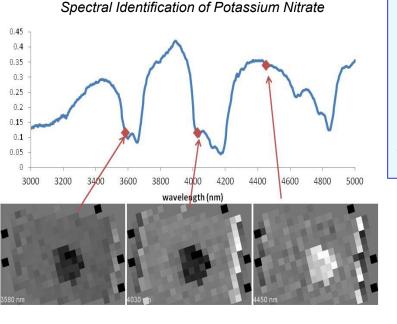
MWIR-60

VIDEO RATE HYPERSPECTRAL IMAGER

Snap-Shot Mode Imaging **Spectrometer Produces Data Cubes at** Video Rates

- No Moving Parts
- **Unique Patented Technology**
- **Ideal for Moving Platforms** and Transient Events
 - **Includes Visible Band Aiming** Camera

Data Cube	41 x 33 spatial x 120 spectral
Data Rate	60 cubes/sec
Spectral Range	3 – 5 μm
Spectral Resolution	34 nm/bin (avg)
Field(s) of View	6.7°x5.4° & 4.8°x3.6°
Dimensions	4" W x 5" H x 21" L
Weight	10 lbs
Power	14 Watts



HYPERSPECTRAL IMAGING

Combining Imaging with Spectral Analysis

A conventional color image has three colors per pixel, but a hyperspectral image can have Because every material hundreds. has characteristic spectral signature, this information can be used to identify an object by analyzing its spectra.

Typical hyperspectral imagers scan a scene over time to build a data-cube. This build time makes these technologies unsuitable for high speed applications.

BD&E's hyperspectral imaging systems use our patented HyperPixel Array™ (HPA™) technology to combine spectral data with spatial information to create three-dimensional hyperspectral data-cubes at video rates. Two dimensions describe the position of a point in space and the third dimension is the spectral signature at that point.

Using no moving parts, this proprietary *HyperPixel* Array™ technology creates a data-cube in one instantaneous frame, eliminating motion artifacts.

APPLICATIONS

- Standoff Detection
- Material Identification
 Biological
- **Chemical Defense**
- Environmental Monitoring
- Geologic Mapping
- Research
- Medical Imaging
- Automatic Target Recognition

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