



APPLICATIONS

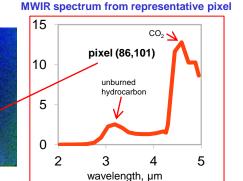
- Standoff Detection
- Material Identification
 Medical Imaging
- Biological Research Environmental
- Monitoring
- Geologic Mapping
- Automatic Target Recognition
- Chemical Defense

MWIR 20

HYPERSPECTRAL IMAGER

PRELIMINARY SPECIFICATIONS

Data Cube	114 X 114 spatial x 20 spectral
Data Rate	Up to 130 cubes/sec
Spectral Range	2 - 5 μm
Spectral Resolution	140 nm/bin (average)
Field of View	7.5 °
Dimensions	5.6" W x 8.0" H x 25.0" L
Weight	26 lbs



Hyperspectral Image of Hot Candle Gases Captured with MWIR 20

Export of this product is regulated by the U.S. Department of State in accordance with the guidance of "International Traffic in Arms Regulation (ITAR)" per Title 22, Code of Federal Regulations, Parts 120-130.

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

HYPERSPECTRAL IMAGING

Combining Imaging with Spectral Analysis

A conventional color image has three colors per pixel, but a hyperspectral image can have hundreds. Because every material has a 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.

- **Unique Patented Technology**
- Ideal for moving platforms and transient events
- No moving parts

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BODKIN DESIGN & ENGINEERING, LLC