Polytec

SOC710--VP®
Portable Vis/NIR Hyperspectral Imager

HIGH QUALITY DATA
Using a sophisticated grating-based imaging spectrometer, the 710-VP® ensures high quality data across the 400 to 1000 nanometer spectral range, with minimal distortion.

PORTABLE
At only 3.85kg, the system can be tripod mounted for hands free operation. Its USB interface means no PCI slots or capture cards are required.

INTERNAL SCANNING STAGE
This unique feature offers the user true portability and versatility. With the 710-VP, additional hardware such as translation stages and rotating tripods are not necessary. With a simple adapter, the 710-VP can even be used on microscopes.

With the 710-VP® hyperspectral imager you can acquire spectral data cubes anywhere! Featuring an internal scanning stage and a compact design, the 710-VP is ideal for applications:

- In the field (tripod and battery)
- In the lab (adaptable to microscope)
- On the production floor (SDK provided for online integration).

It offers true portability and versatility at an affordable price. A 12-bit camera and a precision factory spectral and radiometric calibration yield an instrument that produces high quality data with excellent dynamic range that is free from errors.

At 9” square it is compact and ergonomically designed for portability.

A single USB connection is all that is required for communication between the camera and your computer.

The included acquisition and analysis software suite has been designed for simple operation, and a rich set of analysis functions are included to support colorimetry, spectroradiometry and remote sensing applications.

Specifications

Spectral Coverage	400-1000 nanometers
Spectral Resolution	4.6875 nanometer
Bands	128
Dynamic Range	12-bit
Pixels per line	696
Speed	30 spatial lines per second 23.2 seconds/cube (696 by 520 cube)
Focal Length	Configurable (based on lens used)
Lens Type	C-Mount
Weight	2.95 Kg (6.5 lbs)
Dimensions (HWL)	9.5 x 16.8 x 22cm (3.75 x 6.62 x 8.66 in.)
Power	12-VDC / 100-240VAC (50-60Hz)

The system includes SOC's HyperScanner acquisition software and SRAnalysis software. Data is recorded in open format binary data which can be read in third-party hyperspectral analysis packages such ENVI or MatLab.

Applications

Machine Vision :

- Web and surface inspection
- Chemical analysis
- Agricultural inspection

Agricultural

- Precision Farming
- Classification
- Water Stress
- Crop health

Military

- Target Discrimination
- Identify Friendly or Foe

Scientific

- Microscopy
- Biological analysis
- Plant Sciences
- Material Sciences
- Oceanography

Remote Sensing

- Ground truth
- Material Mapping

APPLICATION DEVELOPMENT

With 25+ years of experience and patents in various areas of realtime spectral imaging, SOC can answer questions and assist in the development of turnkey solutions for you and your client.

SOFTWARE SUPPORT

SOC's technical support staff is readily available to provide information and support on software updates, FAQ's, and calibration files.

HARDWARE SUPPORT

Surface Optics is serious about supporting our customers and standing behind our products. A one-year warranty is included with the system and optional

MORE INFORMATION

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