

Gooch & Housego

VNIR400-PL2 HYPERSPECTRAL SCANNING SYSTEM

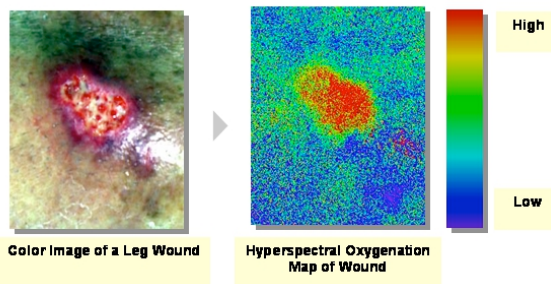


G&H is proud to partner with PhiLumina an award-winning leader in hyperspectral imaging systems to deliver a wide range of spectral imaging solutions ideal for any application requirement. Hyperspectral imaging systems measure the intensity of reflected energy from any given target at hundreds of narrow wavelengths and stores that information in a digital image format, called a hyperspectral image cube. Each image within the cube contains a complete reflectance spectrum from a given range (UV/VNIR/SWIR) of nanometers for every picture element in the image.

PhiLumina systems incorporate line scanning technology that requires no relative movement between the target and the sensor. This approach delivers full spectral information with the highest possible throughput. The UV, VNIR 400 and SWIR Series uses a prism-grating-prism to separate incoming light into component wavelengths, a method that attenuates less energy, and is therefore ideal for applications where high signal-to-noise ratios are critical.

The VNIR400-PL2 is a versatile, portable and economical system suited for both laboratory and field use. All systems come complete with Windows 7 compatible application software allowing easy conversion of the captured images into a single image format, ready for the application of a number of image processing tools and export to off-the-shelf image processing packages. The platform provides user-friendly tools and everything needed to set up, capture, and pre-process data that is ready for in depth image analysis offline.

The VNIR-400-PL2 is a lower cost, fast (USB-3), portable, VNIR scanning hyperspectral imaging system that comes equipped with everything needed to capture, process, validate, and save.



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Gooch & Housego
ENABLING PHOTONIC TECHNOLOGIES

INCLUDES IN THE STANDARD TURNKEY PACKAGE ARE THE FOLLOWING ACCESSORIES:

- Halogen lights with DC power supply
- Laptop or tower computer
- Reference panels
- 16mm VNIR c-mount lens
- Case

THE FOLLOWING OPTIONAL UPGRADES ARE AVAILABLE FOR ADDITIONAL COSTS:

- Computer upgrades (lunchboxes, higher power towers, or laptops)
- Copy stands
- 12, 17, 23, 30mm c-mount lenses (additional sizes are available upon request)
- Larger calibration reference panels
- Larger carrying cases
- Polarizer filters
- Other lighting options
- On-site delivery and training
- Continued support contracts

SPECIFICATIONS

Spectral range.....	400 to 1000 nm
No. spectra.....	up to 1000
Spatial pixels.....	1920
FOV.....	~ 32° (16 mm/ 1" lens)
F#.....	1.8
Spectral resolution.....	~ .6 nm
FWHM.....	2.8 nm
Pixel size.....	5.86 x 5.86 microns sq.
Bit depth.....	16 bit
Frame rate.....	up to 162 FPS
Smile/ keystone.....	< .5 nm
Slit size.....	30 microns by 14.2 mm
Sensor type.....	CMOS
Lens mount.....	C-mount
Cooling.....	Temperature compensation

