

High-Performance Short Wave Infrared (1000-2500nm)

Hyper-Spectral Imaging Camera

The SWIR-384 is a **high speed, high sensitivity and highly stabilised** HyperSpectral Camera that covers the short-wave infrared (SWIR) spectral range from 1000 to 2500nm. The camera is fully compatible with all of our scanning systems and software.

Highly versatile, and suitable for a wide range of scientific and industrial process applications in the SWIR spectral range, including for example: colour measurements, art and conservation heritage, food quality and security as well as agricultural and building/demolition material analysis.



Technical Specifications

Parameter		Units
Spectral Range	1000-2500	nm
Optical Spectral Resolution	≤12	nm
Pixels (Spatial Line)	384	pix
Pixels (Spectral)	288	pix
Smile and Keystone	Sub-pixel across output field	-
Camera output	Up to 14	bit
Camera Interface	Camera LINK	-
Frame Rate ^a	Up to 450	lfps
Shutter ^c	Integrated	-
Lens mount	C-mount	
Input Voltage	24	VDC

Lenses for SWIR-384 camera (1000-2500 nm)

ClydeHSI supplies 5 lenses compatible with our NIR HyperSpectral Camera Series, each with a different focal length and subsequent field of view.

Note: the table shows the lens performance with a standard spectrograph slit and is dependent on specifications.

Focal Length (mm)	F-Number	Spatial Image Size (mm)
15	2.1	9.6
22	2.0	12.8
30	2.0	12.8
56	2.0	9.6
73.3	4.0	10.0

Connectivity

As with all ClydeHSI hardware and software, the NIR HyperSpectral Camera Series has been designed from the ground up with **user convenience and functionality** in mind. As a result, all cameras in our NIR series are fully compatible with all of our hyperspectral scanning solutions and software, and come provided with a mounting plate which is **universally compatible** with all of our systems to ensure efficient and safe operation.

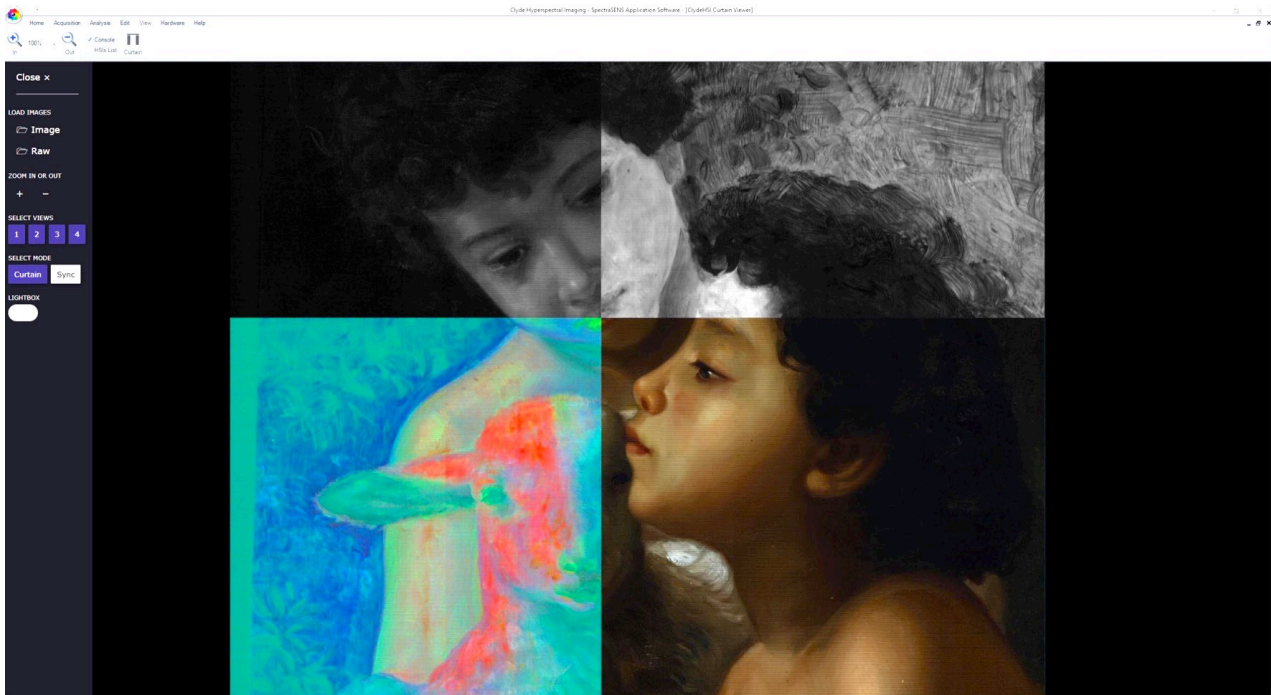
The NIR series interface pictured below is designed for **user functionality and high performance**. One power cable and one USB input allow the cameras to be powered up and connected to our software in seconds, where they can be fully operated by the user **easily and efficiently**.

About Us

We make and measure rainbows.

ClydeHSI are specialists in optical spectroscopy and provide a wide range of both hyper-spectral and conventional spectroscopy instruments and full systems. All our products are supported by leading software for data acquisition, analysis and display.

We take care of the technology, so you can focus on what matters to you.



Our mission is to provide each and every one of our clients with a complete, end-to-end hyperspectral imaging solution, each designed and rigorously tested to ensure **robust, reliable, accurate and repeatable** hyperspectral imaging measurements across a range of academic and industrial applications. Our ultimate goal for all of our systems is to **make hyperspectral imaging easy** for any and all end users.

We believe in **high quality engineering and design**, allowing us to develop market leading products and services. Within our Photonics Research Facility, we have the capability to rapidly develop new products and systems, and welcome the opportunity to partner with our customers on new developments - both within the scientific research community and for equipment for industrial applications.

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