

HORIBA

CC135 NIR Line Scan Hyperspectral Camera

Fast, high-resolution inline inspection for sorting,
grading, and machine vision
See beyond the visible - Inspect with confidence



Excellent image quality and data consistency



Rugged design for easy industrial integration



High spectral and spatial resolution



High frame rate, up to 600 fps

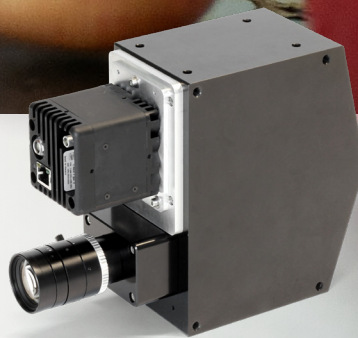


Wide field of view with flexible optics



Customization available

CC135 NIR HSI Camera
SpecSheet



Advanced NIR Hyperspectral Imaging for Industrial Environments

The **HORIBA CC135 NIR Hyperspectral Imaging Camera** covers the **900–1700 nm range**, delivering detailed spectral data across the NIR band.

Built with a **rugged, vibration-resistant design**, it is well suited for **machine vision** and **real-time inline industrial inspection**.

By combining **high frame rate and excellent image quality**, the CC135 enables:

- Precise chemical identification
- Defect and contaminant detection
- Reliable control of composition, content, and uniformity

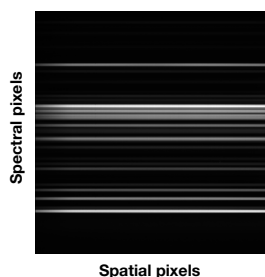
Ideal for **sorting, grading**, and material **classification**.

Specifications	HSI CC135 NIR
Measurement Principle	Pushbroom (line-scan)
Spectral range	900-1700 nm
F number	F/3
Spectral resolution	7.5 nm (60 µm slit width)
Spatial resolution	RMS spot radius < (without lens)
Straylight	0.1%
Wavelength Accuracy	<0.1 nm
Optical interface	C-mount
Lens options	12 mm, 16 mm, 24 mm, 50 mm
Sensor	CMOS
Spectral sampling/pixel	1.8 nm/pix
Spectral pixels	441
Spatial pixels	640
Pixel size	15 µm
SNR max	1183
Dynamic range	91dB
Readout noise	37e
Full well capacity	1.400.000 e (low gain)
Electrical Interface	USB 3.0
Frame rate (full frame)	600 fps
Binning	2, 4, 8
Power	6,5 Watt
Weight (without imaging lens)	3 300 g
Size (without imaging lens)	236x82x168 mm
Operating temperature range	15°C to 45°C
Storage Condition	-20°C to 60°C

Performance

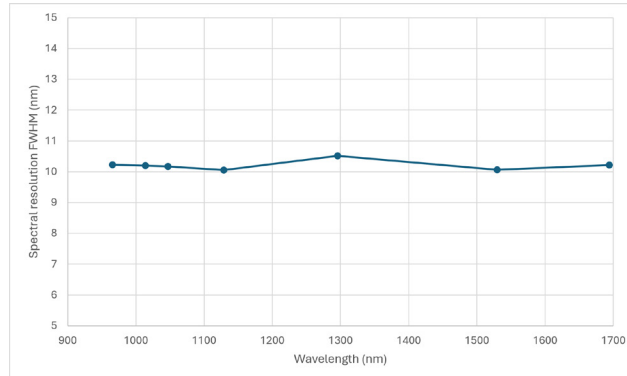
High Image Quality & Industrial-Grade Performance:

- Excellent spectral fidelity across the full NIR range
- Low noise and high dynamic range for challenging materials



Mercury-Argon Spectrum of CC135 NIR

Spectral resolution



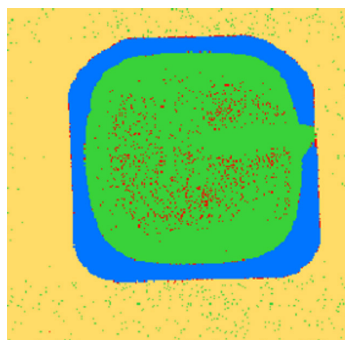
Application Example – Seal Inspection with HSI

Use case: Yogurt cup seal inspection on a production line

- Differentiation between sealed area, unsealed area, and packaging materials
- Reliable detection of sealing defects invisible to RGB cameras
- Enables automated pass/fail decisions in real-time industrial operation

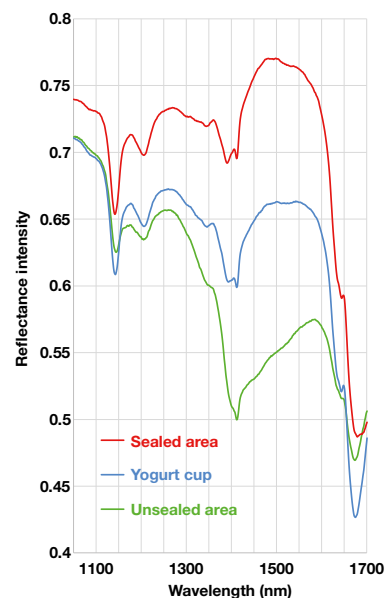


Real RGB image



HSI image

background : background
plastic : plastic
air : air



Options & OEM Capabilities

With over **30 years of experience as a trusted OEM partner**, HORIBA is a leading provider of **gratings, spectrometers, and hyperspectral solutions** designed for industrial applications. We offer both **proven optical platforms and fully customized designs**.

The HORIBA CC135 NIR hyperspectral platform delivers extensive configuration flexibility, according to application-specific constraints, including mechanical, optical, and environmental requirements.

For more information on customization options, please contact the HORIBA expert team.

Conformity / Norms and compliance

HORIBA green policy

HORIBA has a strong and responsible environmental commitment with sustainable solutions through innovative eco-friendly technologies and designs.





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