The Gamechanger: World's smallest HSI Snapshot Camera

Cubert's smallest ever hyperspectral imaging camera is also its most affordable, to a price that can easily compete against RGB and multispectral cameras. By downsizing the fundamental light field technology of the ULTRIS 20, we have created a hyperspectral video camera featuring a 5 MP sensor that is just 30 x 30 x 50 mm and weighs only 120 g.

This latest addition to the ULTRIS family addresses the needs of industry and researchers alike for a robust and lightweight camera that can fit into every lab or production area, physically and fiscally. It is small enough to fit into any industrial process system, powerful enough to fill medical imaging requirements and fast enough to record complete non-scanning snapshot datacubes at 15Hz.

Technical Specifications ULTRIS 5

Technology	Light Field	Attachable Optics	C-mount (w/ Relay Lens)
Readout	Global shutter	Data Depth	12 bit
Spatial Resolution	290 x 275 pixel	Max Frame Rate	15 Hz
Wavelength Range	450 - 850 nm	Data Link	GigE
Spectral Bands	51	Sensor	Sony IMX264
Spectral Sampling	8 nm	File size unprocessed	< 8.5 MB
FWHM	26 nm @ 532 nm	File size processed	< 8 MB
Bandpass Filter	LVF	Weight	126 g
Integration Time	0.1 – 1000 ms	Dimensions	29 x 29 x 65 mm
FOV (Field of View)	15° (w/o Relay Lens)		

The Relay Lens adapter

The new Relay Lens adaptor allows the mounting of any **C-Mount** objective onto both the standard ULTRIS 5 and new HFR version. The adapter can be attached plug-and-play, allowing any lens, including macro optics or fish eye lenses, to instantly be mounted onto the camera. With the Relay Lens, the camera can even be mounted on more complex optical systems, such as **microscopes**, **endoscopes** or **industrial inspection systems**. The Relay Lens is a huge step forward in bringing hyperspectral light field technology to biomedical applications.

Powerful software & SDK

The ULTRIS 5 is designed to quickly provide pertinent information. The image shows a false color image taken with the ULTRIS 5, highlighting the authenticity of one bank note among imitations. Cubert's powerful HSI software CUVIS takes **Raw Data**, **Reflectance** and even **Radiance**. Customized plug-ins and classification solutions can be directly applied in real-time. The powerful **SDK** allows for smooth system integration. Originally developed in **C**, the SDK is now available with wrappers for **C++** and **Python**.

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VIDEO SPECTROSCOPY

Cubert GmbH
Science Park II
Lise-Meitner Straße 8/1
D-89081 Ulm
Germany
✆ +49 791 708 156 70
✉ sales@cubert-gmbh.de
www.cubert-hyperspectral.com

Need more information?

Please contact us! We'd be delighted to answer any of your questions you may have.