

Hyperspectral Powerhouse for Highest Standards

With its wavelength range of **350-1000 nm**, the ULTRIS X20 continues Cubert's groundbreaking development of extremely precise, light field-based spectral snapshot cameras. This range makes it the world's very first **UV-VIS-NIR** hyperspectral **video** imager, generating real-time spectral data cubes without the need for post-shift scanning or image combination. This technology provides clean hyperspectral images, right out of the box with a native image resolution of 410 × 410 spatial pixels with 164 spectral bands, resulting in 168,000 spectra per frame. The ULTRIS X20 is extremely flexible, easy-to-use and time-efficient which is equally important for scientists and engineers and their many diverse applications.

Technical Specifications ULTRIS X20

Technology Readout Spatial Resolution Wavelength Range Spectral Bands Spectral Sampling FWHM Spectral Data Points Bandpass Filter Integration Time Light Field Global Shutter 410 x 410 pixel 350 - 1000 nm 164 4 nm Constant 10 nm 164 x 168 100 (24.5 M) Mosaic 0.1 – 1000 ms Attachable Optics FOV (Field of View) Data Depth Max Frame Rate Data Link Sensor File size processed Weight Dimensions Options

35° 12 bit 8 Hz GigE CMOSIS CMV20000 < 55 MB 350 g 60 x 60 x 57 mm Industrial Housing (IP66) Underwater Housing (IP68)



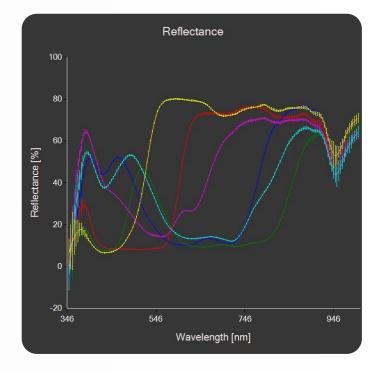
Cubert CUVIS Software

The powerful Cubert CUVIS software takes **Raw Data**, **Reflectance** and even **Radiance**. The image shows a CIR radiance image of wine leaves, highlighting drought stress. With a video rate of up to 8 Hz, you can easily apply analyses directly to the live data stream. Recorded data can be quickly exported to scientific formats, such as **ENVI** and **TIFF**. Our **SDK** is the ideal choice for seamless integration of any of our cameras into your established processes. Originally developed in **C**, the SDK is now available with wrappers for **C++** and **Python**.

The Highest Quality Standard

The X20 is based on light field technology. Equipped with optical bandpass filters an unequaled quality standard is reached. With a **transmission >90%** and an **OD4** blocking, noise and straylight effects are reduced to a minimum. The filters provide a constant **FWHM of 10 nm** throughout the entire spectrum, enabling a true **equidistant** and equally broad band setting.

Optional IP66 and IP68 housings are available for the camera, enabling versatile applications, including underwater use.



Cubert GmbH

Science Park II Lise-Meitner Straße 8/1 D-89081 Ulm Germany

Need more information?

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

𝔅 +49 791 708 156 70
□ sales@cubert-gmbh.de
www.cubert-hyperspectral.com