

1 Megapixel & Flexible Filter Options

The **ULTRIS XM** represents the next generation in hyperspectral imaging, featuring **USB3 connectivity** for easy data transfer capabilities. Coming with the highest-ever native **spatial resolution of 1 Megapixel** among Cubert hyperspectral snapshot cameras. Operating as a classic VNIR camera, it covers the spectrum from 400 to 900 nm, making it versatile for various applications.

This technology provides clean hyperspectral images, right out of the box with a native image resolution of **1000** × **1000** spatial pixels with **51** spectral bands, resulting in 51 M spectra per frame. Additionally, a **C-Mount adapter** provides users with flexibility in selecting lenses based on their specific needs, or even mounting the camera on other optical systems such as microscopes.

Technical Specifications ULTRIS XM

Technology

Readout

Spatial Resolution

Wavelength Range

Spectral Bands

Spectral Sampling

FWHM

Spectral Data Points

Bandpass Filter

Integration Time

Light Field

Global Shutter

 $1000 \times 1000 \text{ pixel}$

400 - 900 nm / modular

51

10 nm

Constant 25 nm

51 x 1 000 000 (51 M)

Mosaic

 $0.1 - 1000 \, \text{ms}$

Attachable Optics

FOV (Field of View)

Data Depth

Max Frame Rate

Data Link

Sensor

File size processed

Weiaht

Dimensions

Variants

C-Mount (for 1" sensors)

12° / any (lens-dependent)

12 bit

10 Hz

USB 3.0

Sony IMX540

~150 MB

<150 g

40 x 40 x 40 mm

Relay Lens Adapter

Choose your Wavelength

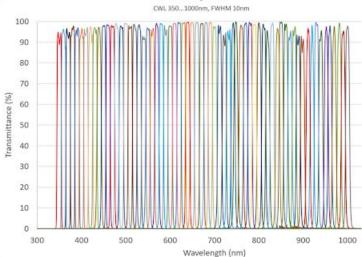
The ULTRIS XM represents a significant advancement in hyperspectral imaging, incorporating mosaic optical bandpass filters with a FWHM of 25 nm. This configuration provides a standard wavelength range of 400-900 nm, suitable for a wide range of applications requiring accurate spectral data acquisition.

Unique to the ULTRIS XM is the selection of fixed **filter configurations available** at the time of purchase, tailored to meet diverse application needs. The camera can be equipped with an alternative set of 25 nm **FWHM filters**. These filters allow a **custom 500 nm range** within the entire VNIR spectrum covering 385 to 1000 nm. This provides flexibility feature in targeting specific spectral detailed regions for analysis.



Compatible with the X20

Furthermore, the **ULTRIS XM** can be configured to incorporate the filter set from the premium model **ULTRIS X20**. These filters have a narrower **FWHM of 10 nm** below). enhanced ſimage offerina resolution for high-precision spectral analysis. While the wavelength coverage with the X20 filters is limited to a **200 nm** range within 350-1000 nm, the finer spectral resolution is beneficial specialized scientific applications.



In summary, the ULTRIS XM provides a robust and versatile hyperspectral imaging solution with **fixed filter options**. Whether equipped with the standard 25 nm FWHM filters or the high-resolution 10 nm FWHM filters from the ULTRIS X20, the camera is designed to meet diverse scientific and industrial imaging requirements with precision and reliability.



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Need more information?

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