

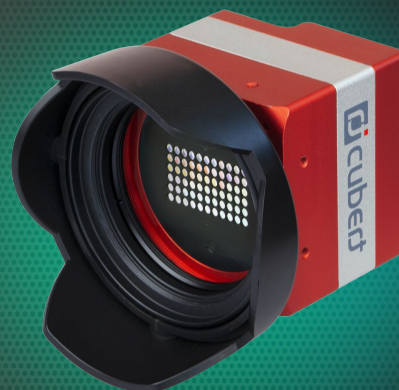


## Meet the Hyperspectral Experts

At Cubert, we specialize in **Hyperspectral Snapshot technology**, offering high-performance cameras tailored to diverse fields such as **OEM integration, scientific research, security, and biomedical imaging**.

Our portfolio includes a range of powerful cameras designed for precise data capture and analysis, ensuring you get the most reliable results.

Each camera is supported by our proprietary **software SDK**, enabling seamless integration into your systems and providing developers the tools needed for advanced applications.



ULTRIS X20



ULTRIS X20 Plus



ULTRIS 5



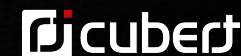
ULTRIS XMR



ULTRIS SWIR 1



# Technical Specifications Overview



	ULTRIS 5	ULTRIS X20 / X20 Plus	ULTRIS XMR	ULTRIS SWIR 1
<b>Applications</b>	<b>Entry / OEM Camera</b> Science on a budget, OEM (food, quality control), medical (skin, brain, surgery), compatible with medical imaging devices)	<b>Premium UV-VIS-NIR Camera</b> Remote sensing, field and UAV use, scientific research, reference model for exploring wavelengths in industrial applications	<b>Next-Gen HR Camera</b> Real-time tracking, monitoring, and security-related tasks, chemical imaging across multiple fields, medical (skin, brain, surgery), compatible with medical imaging devices)	<b>Hyperspectral SWIR Camera</b> All SWIR applications, from remote sensing to industrial quality control, even medical imaging (e.g., detecting water content/humidity in vegetation or soil)
<b>Key Features</b>	Most versatile, available with relay lens, high-speed version (75 fps) for fast processes.	Highest quality, X20 Plus adds a high-resolution panchromatic sensor, ideal for UAV aerial imaging. Pansharpening for improved spatial resolution.	Next-gen camera with 17 fps, powered via USB3, offering the highest spectral resolution of the lineup. Easy to use with integrated relay lens, also suited for large telephoto lenses.	First hyperspectral snapshot SWIR camera, extremely fast (80 fps), USB3 connection. Ideal for industries requiring SWIR imaging, pioneering a new standard in the SWIR spectrum.
<b>Price Range</b>	Entry-level	Premium	Mid-range	Mid-range
<b>Wavelength Range</b>	450 - 850 nm	350 - 1000 nm	430 - 910 nm	980 - 1650 nm
<b>Spectral Bands</b>	51	164	61	38
<b>Spectral Sampling</b>	8 nm	4 nm	8 nm	18 nm
<b>FWHM</b>	26 nm @ 532 nm	Constant 10 nm	Constant 25 nm	Avg. 80 nm
<b>Bandpass Filter</b>	LVF	Mosaic	Mosaic	LVF
<b>Spatial Resolution</b>	290 x 275 pixel	410 x 410 pixel, X20P: 1886 x 1886 pixel (Pan)	1000 x 1000 pixel	200 x 200 pixel
<b>Total Data Points</b>	51 x 79 750 (4M)	164 x 168 100 (24.5M)	61 x 1 000 000 (61M)	38 x 40 000 (1.5M)
<b>Lens / Optics</b>	C-mount 2/3"	-	C-mount 4/3"	C-mount 2/3", 1"
<b>FOV (Field of View)</b>	15° (w/o lens) / lens-dependent	35°	lens-dependent	lens-dependent
<b>Max Frame Rate</b>	15 Hz / 75 Hz (HFR)	max 4 Hz	17 Hz (8 bit) / 12 Hz (12 bit)	80 Hz
<b>Data Link</b>	GigE / 10 GigE (HFR)	GigE	USB 3.0	USB 3.0
<b>Integration Time</b>	0.1 – 1000 ms	0.1 – 1000 ms	0.1 – 1000 ms	0.1 – 1000 ms
<b>Data Depth</b>	12 bit	12 bit	12 bit	12 bit
<b>Technology</b>	Light Field	Light Field, Dual Sensor (X20P)	Light Field	Light Field
<b>Readout</b>	Global Shutter	Global Shutter	Global Shutter	Global Shutter
<b>Sensor</b>	Sony IMX264	CMOSIS CMV20000, Sony IMX264 (X20P)	Sony IMX540	Sony IMX990
<b>File size processed</b>	< 8 MB	< 55 MB	~300 MB	3 MB
<b>Weight</b>	126 g	350 g / 630 g	700 g	140 g (w/o lens)
<b>Dimensions</b>	29 x 29 x 65 mm	60 x 60 x 57 mm / 86 x 121 x 105 mm (X20P)	40 x 40 x 217 mm	30 x 30 x 85 mm (w/o lens)
<b>Options</b>	C-mount adapter High Frame Rate (HFR) Industrial Housing (IP66)	only X20: Industrial Housing (IP66) Underwater Housing (IP68)	Wavelength range customizable	-