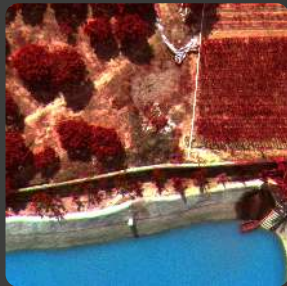




**INTELLIGENCE IN A NEW DIMENSION:
REAL-TIME. SPECTRAL. SOVEREIGN.**



Cubert is a German Pioneer in Real-time Hyperspectral Imaging

Our snapshot cameras capture the full optical spectrum in a single exposure – no scanning, no compromises. Built for environments where vision alone isn't enough, we deliver spectral video data that is robust, tactically actionable, and ITAR-free.

Our systems are integrated into UAVs, ground stations, vehicles, and mobile platforms – and are deployed worldwide by institutions, research facilities, and government agencies in mission-critical applications such as reconnaissance and surveillance:

- ❑ Anomaly detection from UAVs or manned platforms
- ❑ Live tracking of objects with known spectral signatures
- ❑ Identification of materials not distinguishable by RGB or thermal imaging



Hyperspectral Intelligence Without Compromise – Powerful, Ready, Integrable

- ❑ Snapshot Technology – Full spectral cube in a single exposure
- ❑ Real-Time Capable – Up to 75 fps, live data analysis
- ❑ VNIR & SWIR – More than 100 channels across visible and infrared ranges (350–1650 nm)
- ❑ Lightweight & Rugged – From 140 g, UAV-optimized
- ❑ Open & Integrable – USB 3.0, GigE, SDK, DJI-compatible
- ❑ ITAR-Free – Ready to deploy, globally available
- ❑ Made in Germany – Development, production, support from one source



Cubert delivers Spectral Intelligence – Precise, Mobile, Mission-ready.



System Integration & Technology Platform

The Cubert ULTRIS X20P system is engineered specifically for UAV-based missions: A 20-megapixel hyperspectral sensor combined with a panchromatic camera for high resolution and real-time onboard processing via edge PC. Data is automatically georeferenced, analyzed, and made actionable in the field.

Seamless DJI Skyport integration and a stabilized UXG gimbal ensure reliable performance, even in harsh conditions. Together with CUVIS software, it forms a complete workflow – from flight planning to spectral decision-making. With reliable performance under demanding conditions, the ULTRIS X20P supports decision-making in defense-critical scenarios – from reconnaissance to threat detection.

Our Camera Products

Camera Model	Spectral Range	Spectral Bands	Spatial Resolution	Frame Rate	Weight
ULTRIS S5	450 - 850 nm	51	290 x 275 px	75 Hz	126 g
ULTRIS X20	350 - 1000 nm	164	410 x 410 px	8 Hz	350 g
ULTRIS X20P	350 - 1000 nm	164	1886 x 1886 px	4 Hz	630 g
ULTRIS XMR	430 - 910 nm	61	1000 x 1000 px	17 Hz	700 g
ULTRIS SWIR-1	980 - 1650 nm	38	200 x 200 px	80 Hz	140 g

ULTRIS S5



ULTRIS X20P



ULTRIS XMR



ULTRIS SWIR-1



One Technology – Multiple Domains of Application

BIOMEDICAL & SCIENCE

- ❑ Non-invasive diagnostics of skin and tissue
- ❑ Retina imaging for early detection of neurodegenerative diseases
- ❑ Hyperspectral microscopy in pharmaceuticals and cell biology
- ❑ Phenotyping and basic research at academic institutions

ENVIRONMENT & AGRICULTURE

- ❑ UAV-based monitoring of vegetation and crops
- ❑ Analysis of soil moisture, water and nutrient distribution
- ❑ CO₂ and biomass mapping for forestry and climate research

INDUSTRY & OEM

- ❑ Inline quality control in food, pharma, recycling, and raw materials industries
- ❑ Detection of surface properties, coatings, moisture, and contamination
- ❑ Integration into automation, robotics, and inspection systems

Need more information?

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

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