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Гиперспектральная визуализация Airbone

Airbone Hyperspectral Imaging



ATH9010 series is the 3rd generation hyperspectral imager . This new series feature compact and light.

It consists of eight main parts of six-rotor UAV, high-stable cloud platform, hyperspectral imager,, big memory storage, GPS navigation system, ground receiver station, and ground control system.

ATH9010 (Standard resolution), ATH9010P (High SNR), ATH9010W (Wider FOV) with 1920×1200 pixels, 1920×1080 pixels, or 2048×2048 pixels high-performance detection imaging devices, imaging clear, less noise. The ATH9010 series also comes with high-performance data acquisition and processing software.

From real-time measure spetral data collection to spectral images analysis, and final physicochemical properties calculation. They've widely applied to plants classification and growth assessment.

DETECTOR

Type	CMOS
Effective Pixels	2048×2048
Range	350~1100 nm
Dynamic Range	72 dB
Bit Depth	12 bit
Mode	Software Binning or hardware binning（software setup）
PC	I7, 16G , 512GB, Max 2TB

OPTOSKY OPTICAL PARAMETERS

Spectral Range	400~1000 nm (customization option)
Spectral Resolution	<1.5 nm
FOV	21.6°
Smile	<1/3 pixel
Keystone	<1/3 pixel
Lens FL	35mm
Slit Size	30μm
NA	0.2(F/2.4)
Optical Bench	PG imaging spectrometer
Frame Rate	180 Hz
Image Resolution	2048×2048
Imaging Mode	Push broom
Resolution Before Binning	2048 （spatial-axis） × 2048 （spectral-axis）
Resolution After Binning	512 （spatial-axis） ×512 （spectral-axis）

OPTOSKY ELECTRICAL PARAMETERS

Power Supply	12V, 5W
Storage Temp.	-20 ~ 65℃
Operating Temp.	-10 ~ 45℃
Working Humidity	≤85% RH
Interface	USB3.0
Load PC	Intel I7 CPU 16G
PC Hard Drive	512 GB SSD, Max 2T

UAV SYSTEM

DETECTOR

Drone	Luxury Six Rotor Drone customized with load hour > 45 minutes
Cloud Platform	High stable Cloud platform driven by 3-Phase BLDC Motor
Rotor No.	Six Rotors
Lift	Take off and land vertically
Wheelbase	1500 mm
Max Base	6 Kg
Max Altitude	5000 m
Drone Size	1650 X 1410 X 500 mm
GPS Accuracy	<0.3m, RTK
Flight Duration	>45 minutes
Ground Control Distance	10 Km
Remote Change Imaging Specs (Y/N)	Yes

SOFTWARE

Basic Functions	Flexible to set exposure time, gain, speed, dynamic real-time images and curves
Focus Adjust	Dynamic real-time image obtained through precision focus adjustment can avoid human visual focusing error

Software Functions	Data acquire software can real-time shows images and curves Transmission and reflectance measure mode set exposure time, speed in flexible Standard in-built Library and self-built library Others like images cut and identify spectrum
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