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Бортовая система гиперспектральной визуализации Airdborne Hyperspectral Imaging System



ATH9500 is a series of small, light-weight Airborne miniature hyperspectral imaging system, consisting of a six-rotor high-stability UAV, high-stability gimbal, hyperspectral imager, large-capacity storage system, wireless imaging system, GPS navigation system, ground receiving workstation, ground control system, etc.

The ATH9500 uses high-performance CCD imaging devices with clear imaging and low noise; the internal integration of an original high-compression ratio image compression algorithm greatly improves the storage life, which can reach more than 3 hours, which fully meets the needs of airborne.

ATH9500 can be used to measure the spectral information of plants, water bodies, soil and other ground objects in real time, and obtain spectral images. By analyzing the spectral images, it can establish relationships with the physical and chemical properties of plants, etc., for plant classification and plant growth status research.

The entire system is compact in design, the mainframe of the imaging spectrometer has high spectral resolution, and at the same time, it adopts an external push-broom imaging method. It can form an independent measurement system with the field rotating platform and the indoor linear scanning platform. It can also be mounted on drones for aerial remote sensing operations.

DETECTOR

Type	InGaAs SWIR Detector
OPTOSKY OPTICAL PARAMETERS	
Spectral Range	1000-1700nm
Spatial Channels	640
Spectral Channels	512
Frame Rate	240fps
Bit Depth	14bits
Scan Range	0-280mm
Calibrated Reflectance	50%
OPTOSKY ELECTRICAL PARAMETERS	
Power Supply	12V±10%, 5W
Battery Life Span	4 hours
Storage Temp.	-20-65 °C
Operating Temp.	-10-40 °C
Working Humidity	≤85% RH
RAM	500GB, SD cord
OPTOSKY PHYSICAL PARAMETERS	
Weight	520g
UAV SYSTEM	
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

DETECTOR

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

SOFTWARE

Basic Functions	Flexible setting of exposure, gain, speed, dynamic display of real-time hyperspectral image and hyperspectral curve.
Focus Adjust	Dynamic real-time display of hyperspectral images, scientific light and dark focusing, avoiding artificial visual focusing errors.
Software Functions	Data acquisition software can dynamically display hyperspectral images and hyperspectral curves in real time; it can provide measurement modes such as transmission and reflection, and can flexibly set parameters such as exposure time and speed. It comes with a spectral library and a user-recorded library, which can realize image cutting, spectrogram recognition and other functions

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