Datasheet

Multispectral Imager

ATH2600

Features

- Built-in solid-state push-broom device, optional auto-focus system
- Band range: 405~850nm, including 12-14 bands
- Spectral resolution: 15 nm
- Built-in large-capacity lithium battery, can work in the field
- Built-in high-resolution visible light camera
- Can be controlled by mobile phones, iPads, laptops and other devices
- Spatiotemporal Radiation Intensity Correction Technology

Application

- Geology and Mineral Resource Exploration
- Precision Agriculture, Crop Condition and Yield Evaluation
- Forest pest monitoring and fire monitoring
- Coastline and marine environment monitoring
- Pasture Productivity and Pasture Monitoring
- Environmental Monitoring of Lakes and Watersheds
- Remote Sensing Teaching and Research
- weather research
- Water quality testing, soil monitoring

Description

AATH2600 is a multi-spectral imager independently developed and designed by Optosky. The system covers 12-14 band spectral images from visible light to near-infrared. The ATH2600 has a built-in solid-state band scanning mechanism, which can complete the scanning of each band without the need for mechanism operation; in addition, the ATH2600 also has a built-in lithium battery, a central processing unit, etc., and an optional auto-focus system. High-definition, high-quality and other characteristics.

ATH2600 adopts high-resolution CCD imaging device, with clear imaging and less noise. It is especially suitable for scanning and imaging large-sized flat samples.

ATH2600 is light and flexible, with excellent endurance, intelligence, complete data analysis and processing functions, real-time monitoring, real-time calibration, real-time output of inversion results and other functions.

Model	Feature
ATH2600-12	Number of bands: 4 lenses, 12 bands
ATH2600-14	Number of bands: 6 lenses, 14 bands

1503 Bld. A04, 3rd Software Park, Jimei, Xiamen, 361005, China
Tel: +86-592-6102588

1. Product Image

2. Selection Guide

Model	Feature	
ATH2600-12	12 bands in the 405-850 nm range	
ATH2600-14	14 bands in the 405-850 nm range	

MULTISPECTRAL 12 A7Rii/iii/iv – version 1

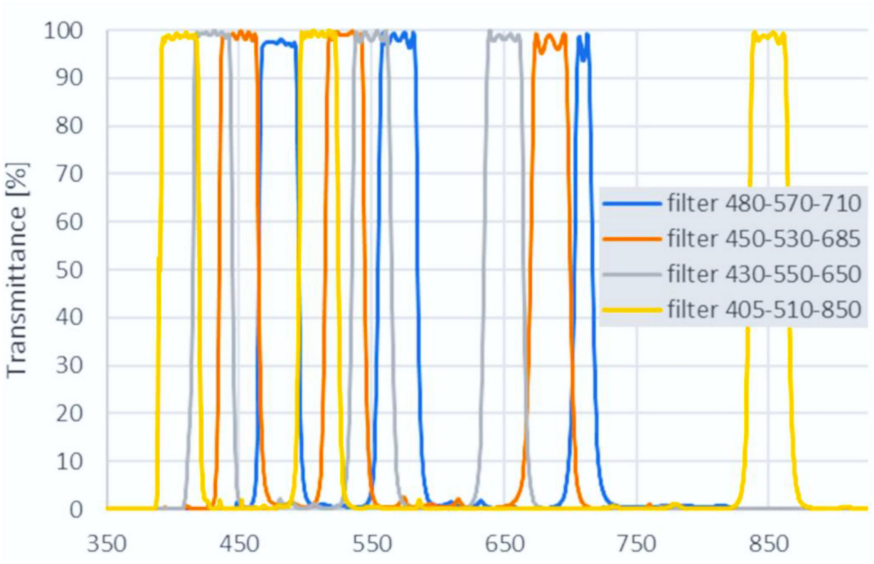

Figure 1 Band distribution of ATH2600-12

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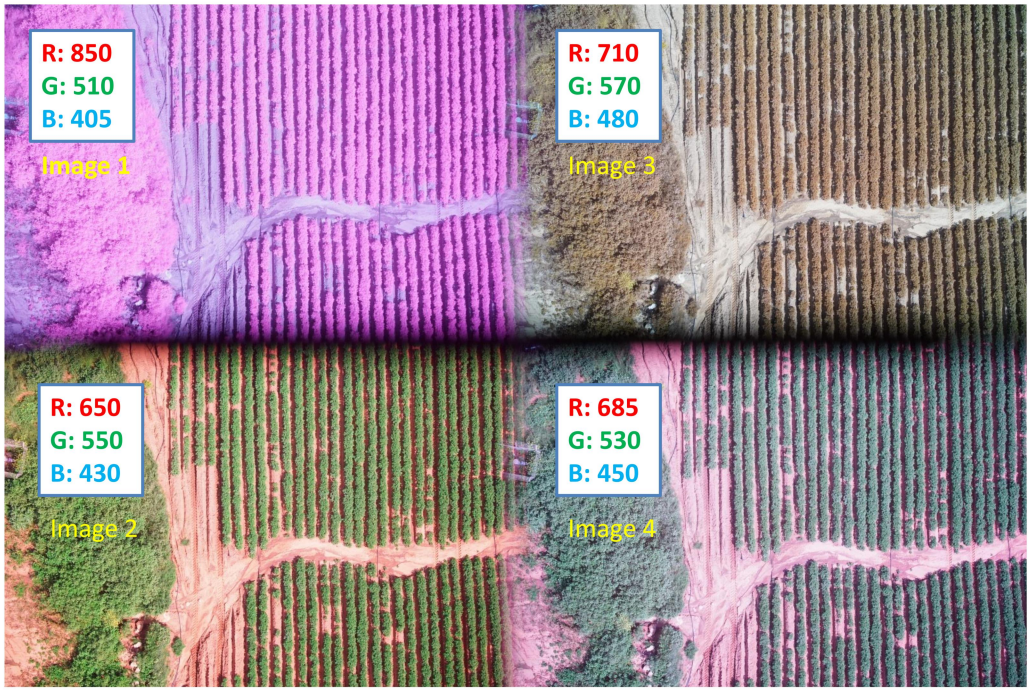

Figure 2 Imaging bands of ATH2600-12

MULTISPECTRAL 14 A7Rii/iii/iv – version 1

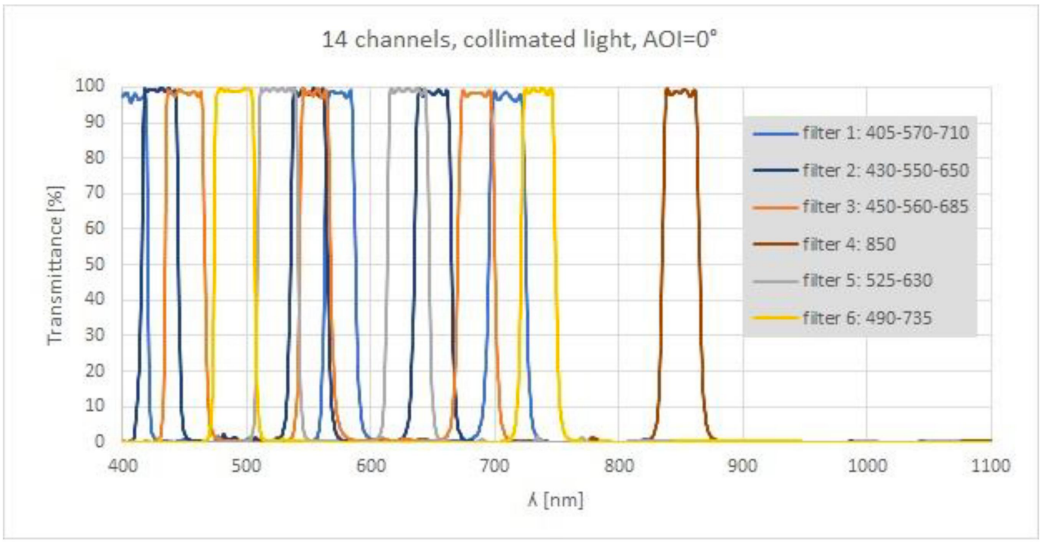

Figure 3 Band distribution of ATH2600-14

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Figure 4 Imaging bands of ATH2600-14

3.Application examples

Multispectral remote sensing is a telemetry technology that uses sensors with multiple spectral channels to obtain images of different spectral bands of the same target. It captures image data of a specific frequency through the electromagnetic spectrum and obtains ground feature information in specified bands. Multi-spectral remote sensing sensors have multi-spectral cameras, multi-spectral scanning imagers, etc., which can not only distinguish ground objects according to the differences in the shape and structure of images, but also distinguish ground objects based on differences in spectral characteristics, and the remote sensing information they provide Richer than single-band photography.

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4. Performance parameter table

Number	Index	ATH2600-12	ATH2600-14
Spectral performance	Spectral range	405~850 nm	405~850 nm
	Band distribution	405、430、450、480、510、530、550、570、650、685、710、850nm	405、430、450、490、525、550、560、570、630、650、685、710、735、850nm
	Spectral resolution	Superior to 15nm	Superior to15nm
	Multispectral Chromaticity Band Resolution (Single Lens Composite)	3600 x 2200	2780 x 2650
	Number of spectral channels	12	14
	Dynamic Range	12bit	16bit
Imaging lens*1	Imaging lens	Auto focus	
	F#	6.0	5.6
	Effective focal length	25mm	21.8mm
	H-FOV	35°	25°
	V-FOV	26.6°	25°
	D-FOV	45.9°	32.4°
Electrical properties	Imaging speed	20 bands/s	20 bands/s
	Lithium battery life	>6 h	>6 h
	Data storage	SD 卡（256GB，512GB 可选）	
	Data interface	USB3.0	
	Power supply	12VDC，3A	
	Visible light camera resolution	>800 CMOS	>750 CMOS
	Operating system	Android OS	
	Screen	5.5 inch capacitive touch screen	
	Screen Resolution	1920X1080	

Note：

*1： Imaging lens is standard, other focal length lenses are optional；

*2： This product is independently developed by Opu Tiancheng, the parameters in the table are for reference only, and other parameters can be customized.

1503 Bld. A04, 3rd Software Park, Jimei, Xiamen, 361005, China

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