

Handheld multispectral imager

ATH2610

Features

- Built-in solid-state push-broom;
- 10 bands: 710, 745, 780, 820, 850, 890, 920, 940 nm;
- Spectral resolution: 15 nm;
- Built-in high-capacity lithium battery;
- Autofocus system optional;
- Built-in high-resolution visible light camera;
- Controlled by mobile phones, iPads, laptops and other devices;
- Using space-time radiation intensity correction technology;

Application

plant growth state
 Cultural relic scanning and restoration, mural restoration
 Digitization of Calligraphy and Painting
 Textiles: copying of patterns, reproduction of drawings
 Forensic Appraisal: Document Inspection Appraisal
 Scientific research institutions, colleges and universities
 Industrial sorting
 Garbage classification

Description

ATH2610 is a handheld hyperspectral imager independently developed and designed by Optosky. The system covers 10 band spectral images from visible light to near infrared. ATH2610 has a built-in solid-state band scanning mechanism, which can complete scanning of each band without the need for mechanism operation. In addition, ATH2610 also has built-in lithium batteries, central processing units, etc., and an optional autofocus system. It also has high resolution, High definition, high quality and other features.

ATH2610 uses a high-resolution CCD imaging device with clear images and less noise. It is especially suitable for scanning and imaging of large-sized flat samples, such as murals, calligraphy and paintings, and textiles.

ATH2610 is light and flexible, has excellent battery life, is intelligent, has complete data analysis and processing functions, and can perform real-time monitoring, real-time calibration, and real-time output of inversion results. Widely applicable to outdoor and laboratory application requirements. ATH2610 combines hyperspectral imaging technology with high-definition photography technology. The collected data has both high spectral resolution and high spatial resolution, and can fully explore the unique spectral and spatial characteristics of the substance itself.



1. parameter

No.	index	ATH2610-VIS	ATH2610-NIR
Spectral performance	Spectral range	450~750 nm	710~950 nm
	Band distribution		710、745、780、820、850、890、920、940 nm
	spectral resolution	better than 15 nm	better than 15 nm
	Maximum number of spatial channels	1280 x 1024	1280 x 1024
	Number of spectral channels	10	10
	Dynamic Range	12bit	16bit
Imaging lens*1	imaging lens	auto focus	
	F#	4.7	
	focal length	4.98 mm	
	H-FOV	31.5°	
	V-FOV	25.5°	
	D-FOV	39.8°	
Electrical properties	Imaging speed	20 bands/s	20 bands/s
	Lithium battery life	>6 h	>6 h
	data storage	SD card (256GB, 512GB Optional)	
	Data interface	USB3.0	
	Power supply	12VDC, 3A	
	Visible light camera resolution	>8 million pixels	
	operating system	Android OS	
	Screen	5.5 inch capacitive touch screen	
	Screen Resolution	1920X1080	
<p>Note:</p> <p>*1: The imaging lens is standard, and other focal length lenses are optional;</p> <p>*2: This product is independently developed by Optosky. The parameters in the table are for reference only, and other parameters can be customized.</p>			

2. Spectral channel selection

model	feature
ATH2610-VIS	10 bands in the 450-750 nm range
ATH2610-NIR	10 bands in the 710-950 nm range

