

Handheld Multispectral Imager

ATH2610

Features

Built-in solid-state push-broom device, high reliability

10 bands: 710, 745, 780, 820, 850, 890, 920, 940 nm

Spectral resolution: 15 nm

Built-in large-capacity lithium battery, can work in the field

Auto focus system optional

Built-in high-resolution visible light camera

Can be controlled by mobile phones, iPads, laptops and other devices

Spatio-temporal radiation intensity correction technology significantly improves radiation calibration accuracy

Application

Plant growth state

Scanning and restoration of cultural relics, restoration of murals

Digitization of Calligraphy and Painting

Textiles: copying of patterns, reproduction of pictures

Research institutions, colleges and universities

Industrial sorting, waste sorting

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 the scanning of various bands without mechanism operation; in addition, ATH2610 also has a built-in lithium battery, a central processing unit, etc., and an optional auto-focus system, and has high resolution, High-definition, high-quality and other characteristics.

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

ATH2610 is light and flexible, with excellent battery life, intelligence, complete data analysis and processing functions, real-time monitoring, real-time calibration, real-time output of inversion results and other functions. Widely applicable to outdoor and laboratory application requirements.



1. Product Image



2. Selection Guide

Model	Feature	
ATH2610-VIS	10 bands in the 450-750 nm range	
ATH2610-NIR	10 bands in the 710-950 nm range	

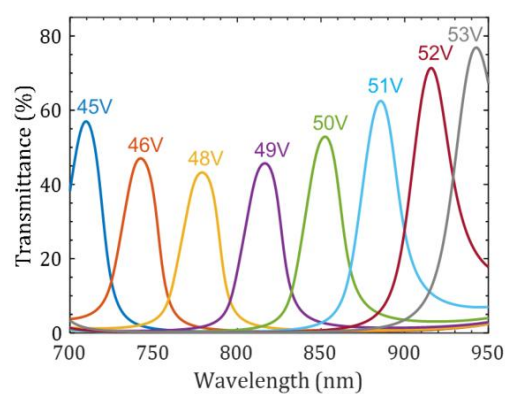


Figure 1 Band distribution of ATH2610-NIR

3. Technical parameters

Number	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	Superior to15 nm	Superior to15 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	>800 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.			

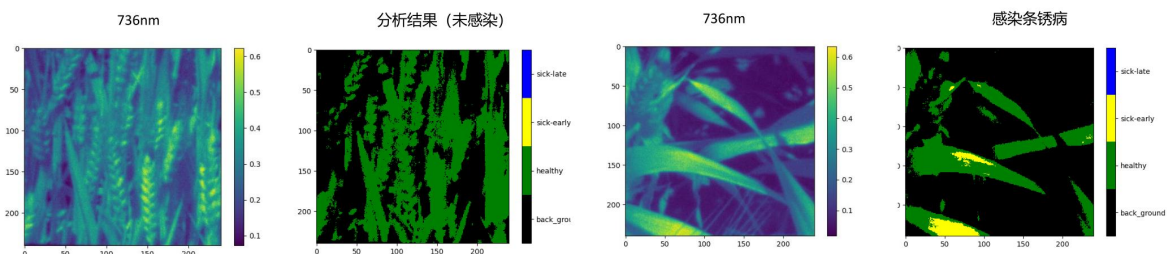


Figure 2 The application of ATH2610 in wheat stripe rust, the spectrum of healthy plants is on the left, and the spectrum of plants infected with stripe rust virus is on the right.