

Compact Camera & Multispectral Imager

ATH2603

Features

- Bracket optional, used with any model of drone.
- The collected data all have geographical information.
- Accurate GPS receiver.
- Large-capacity lithium battery, suitable for field work
- Autofocus system optional
- Trigger options: interval/timer and external PWM shooting modes.
- Wide range of applications. SWM signals can be used, easily extract images via USB.
- No-mechanical scanning, high reliability.

Application

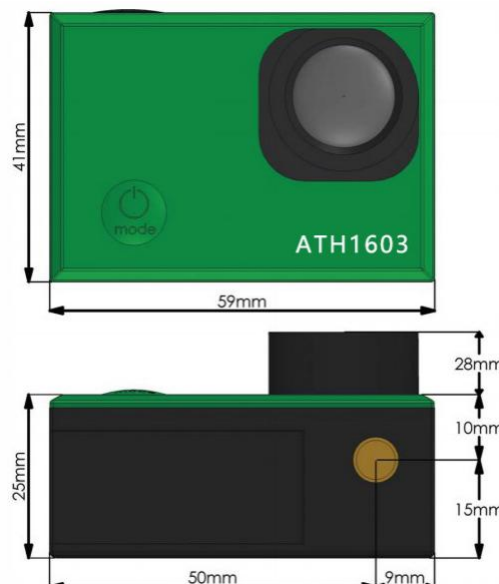
- Phenotypic analysis
- Crop health mapping
- Water stress analysis
- Leak detection
- Fertilizer management
- Regional mapping
- High altitude flight
- Meteorological research
- Disease identification

Description

NATH2603 is a handheld 3-channel multispectral imager independently developed by Optosky. Users can select lenses and filters according to application scenarios to meet different usage needs.

ATH2603 is a compact, cost-effective handheld multispectral camera that can be used for ground and aerial drone surveying and mapping. ATH2603 has the characteristics of real-time imaging, high resolution and low noise, so the equipment can be widely used in industries such as surveying and mapping, plant disease detection and meteorological research.

The ATH2603 Multispectral Camera is a new easy-to-use multispectral imager equipped with a high-precision GPS receiver that automatically geotags each image. It has a 12-megapixel sensor that can acquire high-resolution, high-quality data, and has the function of outputting inversion results in real time.



1. Spectrum Channel Selection

Serial Number	Aisle	Parameter
1	RGB	Red+Green+Blue
2	OCN	Orange (615nm) + Cyan (490nm) + Near Infrared (808nm)
3	RGN	Red (660nm) + Green (550nm) + Near Infrared (850nm)
4	NGB	Near Infrared (850nm) + Green (550nm) + Blue (490nm)

2. Parameter

Serial Number	Index	ATH2603
Spectral Performance	Number of Channels	3
	Center Wavelength of Each Channel(RGB)	Blue: 450nm (Bandwidth: 35nm)
		Green: 555nm (Bandwidth : 27μm) 15 nm
		Red: 660nm (Bandwidth: 22nm)
	Resolution	4000*3000
	Bit Depth	12bit
Imaging Lens *1	Lens Focal Length	8mm
	Field of View	48°×36.8°
	Shutter Speed	4.98 mm1/2000 to 1min (automatic)
	ISO	50 , 100 , 200 , 400 , 800 , 1600 , Auto
Electrical properties	Data Output Interface	USB3.0
	Power	USB ,Power 1.5v
	Volume	8.2 x 6.7 x 6.45cm
	Weight	<150 g
	Operating Temperature	-20 ~ 50°C
	Storage Temperature	-20 ~ 50°C
Note: *1 : Imaging lens is standard, other focal length lenses are optional; *2 : This product is independently developed by Optosky. The parameters in the table are for reference only. Other parameters can be customized.		

3. Field of View

