

6-band multispectral spectrometer

ATH1606

Features

- Number of channels: 6 multispectral channels
- Field of view: $48^{\circ} \times 36.8^{\circ}$
- Resolution: 4096 x 3000
- Structure: Strip filter
- Light weight: <700g
- Wide range of applications
- No mechanical scanning, high reliability

Application

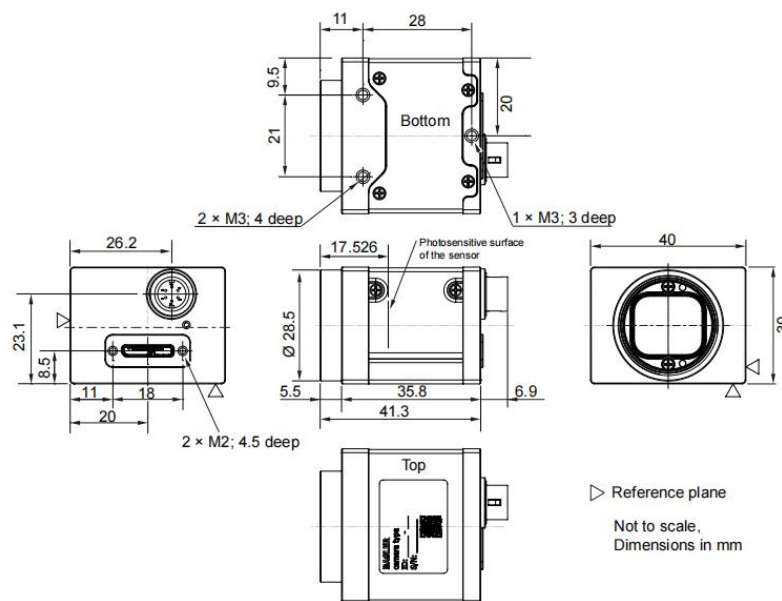
- Phenotypic analysis
- Crop health mapping
- Water stress analysis
- Leak detection
- Fertilization management
- Area mapping
- High altitude flight
- Meteorological research
- Disease identification, etc

Description

ATH1606 is a 6-band multispectral spectrometer independently developed by OPTOSKY, with six channels of blue, green, two red, red edges and near-infrared, which can be applied to agriculture, forestry, environmental protection, surveying and mapping and other related industries. ATH1606 enables real-time imaging with high resolution, high quality, and low noise.

ATH1606 can be used to measure the spectral information of plants, water, soil and other features in real time, and obtain spectral images, and through the analysis of spectral images, it can establish a relationship with the physical and chemical properties of plants, etc., and is used for plant classification, plant growth and other research.

ATH1606 light and flexible, excellent battery life, intelligent, complete data analysis and processing functions, real-time monitoring, real-time calibration, real-time output of inversion results and other functions. Suitable for a wide range of outdoor and laboratory applications. The data collected by the ATH1606 equipment has the characteristics of high resolution and high spatial resolution, which can fully explore the unique spectral characteristics of the substance itself.



1. Performance

Serial number	Index	Parameter
1	Number of channels	6
2	Center wavelength of each channel	Blue: 450nm (Bandwidth: 35nm)
		Green: 5 55 nm (bandwidth : 27 μ m)
		Red: 6 60 nm (Bandwidth: 22nm)
		Red: 720nm (Bandwidth: 10nm)
		Red edge: 750nm (Bandwidth: 10nm)
		Near infrared: 840nm (bandwidth: 30nm)
3	Sensor	4096 x 3000
4	Pixel size	3.45 μ m x 3.45 μ m
5	Field of view	48 ° x 36.8 °
6	Bit depth	1 2 bit
7	Frame Rate	31fps
8	Data interface	USB 3.0,
9	Power Consumption	USB powered 3.6 W
1 0	Volume Size _	8.2 x 6.7 x 6.45cm
1 1	Weight _	<580g
1 2	Operating temperature	-20~50°C
1 3	Storage temperature	-20~50°C

2. Application scenarios

Trace detection



Black ballpoint pen

AoI ADA01 AIDAIDAI

blue ballpoint pen

B18 B18 B16 B40 B40 B57

Black roller pen

C27027 C25 C35 C35 C31