

## Handheld Hyperspectral Imager

## ATH2500

### Features:

- Range: 400 ~ 1000 nm, 400 ~ 1700 nm
- Snapshot Imaging
- Max. Spatial Res.: 2048×1088, 1280×1084
- Android System
- 5.0 Inch HD touch screen
- Super Imaging Quality
- Data format compatible ENVI
- Size: 132mm ×99mm × 65mm
- Weight: 920g, 1760g

### Application

- Prospecting for geology and minerals
- Agriculture Monitoring: Crop condition and yield assessment
- Forest pest and fire prevention monitoring
- Coastline and ocean monitoring
- Pasture monitoring
- Lake and watershed monitoring
- Remote sensing teaching and research
- Industrial sorting
- Ecological environment protection and mine monitoring
- Water quality and soil monitoring

### Description:

ATH2500 features handheld imaging imager with optimized new design. It's compact size and light weight, one hand to held to operate Android system, hand touch screen, built-in big memory fit for high quality images combined high spatial resolution, spectral resolution, and wide range.

ATH2500 consists of two parts of hyperspectral camera and lens.

ATH-4-10 uses 1920\*1200 pixels excellent CCD imager with clear images, low noise, good linearity.

ATH2500-4-17 uses SWIR cooled down to -15°C with super SNR.

ATH 2500 designed stable temperature optical bench can ensure stability and sensitivity. They are widely applied to lab, field, industries in the agriculture, forestry, satallite, and remote sensing etc.

Models	Description
ATH2500-4-10	400~1000 nm, standard version
ATH2500-4-17	400~1700 nm, standard version



## 1. ATH2500 Hyperspectral Camera Series

ATH2500系列	特征	主要应用领域
ATH2500	400~1000nm VIS-NIR Hyperspectral Camera	Precision agriculture, agroforestry diseases and insect pests, vegetation analysis, planting area assessment, crop yield assessment, water quality analysis, art scanning, cultural relic identification, pattern scanning, industrial sorting, oil pollution detection, etc
ATH2500-4-17	0.4~1.7μm SWIR Hyperspectral Camera	Semiconductor, industrial sorting, food sorting, construction waste sorting, meat sorting, plastic sorting, geological exploration, mineral exploration, cultural relics identification, judicial identification, document inspection

## 2. Performance Parameter

	ITEM	PARAMETER	PARAMETER
	Model	ATH2500	ATH2500-4-17
1	Spectral Range	400 ~ 1000 nm	0.4~1.7μm
2	Spectral Channels	500	500
3	Spatial Channels	1920*1200	1280*1084
4	Sensor Type	High Sensitivity VNIR detector	Te-cooled InGaAs SWIR Detector
5	Image Resolution	1920*1200	1280 × 1084
6	Raw Pixels Size	5.86 μm × 5.86 μm	5 μm × 5 μm
7	Bit Depth	14 bits	14 bits
8	Frame Rate	162 fps	1150 fps
9	Scanning Type	Full-frame imaging	Full-frame imaging
10	OS	Android 8.0	
11	Touch Panel	5 -inch , capacitive touch screen (1280×720)	
12	Storage System	32GB (Standard) 、 64GB、 128GB、 256GB Optional	
13	Interface	USB2.0、 WIFI、 Bluetooth	
14	Physical interfaces	USB, Memory Cards, Tripods, Lanyards	
15	Buttons	Power button, Detection of key	
16	IP grade	IP54	
17	Battery span	>4H, Battery replaceable	
18	FOV	15.2°@f=35mm, Depending on the lens	
19	IFOV	0.7mrad@f=35mm, Depending on the lens	
20	Size	132mm × 99mm × 65mm	192mm × 168mm × 153mm
21	Weight	920g	1760g
22	Working Temp.	-20 ~ 50°C	
23	Storage Temp.	-30 ~ 70°C	