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Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
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Калуга (4842)92-23-67
Кемерово (3842)65-04-62
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Краснодар (861)203-40-90
Красноярск (391)204-63-61
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Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
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Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
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Новосибирск (383)227-86-73
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Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

Сургут (3462)77-98-35
Тверь (4822)63-31-35
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Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

<https://optosky.nt-rt.ru/> || otp@nt-rt.ru

Гиперспектральная визуализация AirboneAirbone

Hyperspectral Imaging



ATH9010 series is the 3rd generation hyperspectral imager . This new series feature compact and light.

It consists of eight main parts of six-rotor UAV, high-stable cloud platform, hyperspectral imager,, big memory storage, GPS navigation system, ground receiver station, and ground control system.

ATH9010 (Standard resolution), ATH9010P (High SNR), ATH9010W (Wider FOV) with 1920×1200 pixels, 1920×1080 pixels, or 2048×2048 pixels high-performance detection imaging devices, imaging clear, less noise. The ATH9010 series also comes with high-performance data acquisition and processing software.

From real-time measure spetral data collection to spectral images analysis, and final physicochemical properties calculation. They've widely applied to plants classification and growth assessment.

DETECTOR

Type	CMOS
Effective Pixels	1920 × 1200
Range	350~1100 nm
Dynamic Range	60 dB
Bit Depth	12 bit
Mode	Software Binning or hardware binning （software setup）

DETECTOR

PC	I7, 16G , 512GB, Max 2TB
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OPTOSKY OPTICAL PARAMETERS

Spectral Range	400~1000 nm (customization option)
Spectral Resolution	<1.5 nm
FOV	15.2°
Smile	<1/3 pixel
Keystone	<1/3 pixel
Lens FL	35mm
Slit Size	30μm
NA	0.19(F/2.6)
Optical Bench	PG imaging spectrometer
Frame Rate	270 Hz
Image Resolution	1920 × 1200
Imaging Mode	Push broom
Resolution Before Binning	1920 （spatial-axis） × 1200 （spectral-axis）
Resolution After Binning	480 （spatial-axis） ×300 （spectral-axis）

OPTOSKY ELECTRICAL PARAMETERS

Power Supply	12V, 3W
Storage Temp.	-20 ~ 65℃
Operating Temp.	-10 ~ 45℃
Working Humidity	≤85% RH
Interface	USB3.0
Load PC	Intel I7 CPU 16G
PC Hard Drive	512 GB SSD, Max 2T

UAV SYSTEM

DETECTOR

Drone	Luxury Six Rotor Drone customized with load hour > 45 minutes
Cloud Platform	High stable Cloud platform driven by 3-Phase BLDC Motor
Rotor No.	Six Rotors
Lift	Take off and land vertically
Wheelbase	1500 mm
Max Base	6 Kg
Max Altitude	5000 m
Drone Size	1650 X 1410 X 500 mm
GPS Accuracy	1.5 m
Flight Duration	>45 minutes
Ground Control Distance	5 Km
Remote Change Imaging Specs (Y/N)	No

SOFTWARE

Basic Functions	Flexible to set exposure time, gain, speed, dynamic real-time images and curves
Focus Adjust	Dynamic real-time image obtained through precision focus adjustment can avoid human visual focusing error

Software Functions	Data acquire software can real-time shows images and curves Transmission and reflectance measure mode set exposure time, speed in flexible Standard in-built Library and self-built library Others like images cut and identify spectrum
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