SIYI



PRODUCT BROCHURE

SIYI Technology

R&D and Marketing Center
5F, East Building, Skyworth Semiconductor Design Tower,
No. 18, Gaoxin South 4th Road, Nanshan District, Shenzhen,
Guangdong, China

Manufacturing Center
5F, Building 3, Yintian Xifa Yongqi Technology Park,
Xixiang Street, Bao'an District, Shenzhen,
Guangdong, China

Link & Controller · Gimbal Camera · Autopilot · Propulsion System · Software

SIYI Facebook

SIYI YouTube

Phone
(+86) 400-838-2918

Website
siyi.biz/en/

Marketing Cooperation
marketing@siyi.biz

Technical Support
support@siyi.biz

2026/09

Empower and Build an Intelligent Robotic Ecosystem

Brand Introduction

Company Introduction

SIYI Technology was founded in 2017, focusing on the research and development and innovation of core components for intelligent robots. As a technology source factory, SIYI coveres five major product lines: Link& Controller, Gimbal Camera, Autopilot, Propulsion System and Software, building a unique intelligent robotic ecosystem. Providing innovative products and professional solutions for global UAV, UGV,USV robot and robotic doas industries.

Mission

Empower and Build an Intelligent Robotic Ecosystem

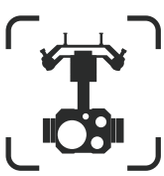
Value

Self-Driven, Pursuing Essence, Innovation without Boundaries, Open and Inclusive

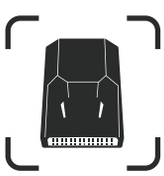
Product Line



Link & Controller



Gimbal Camera



Autopilot



Propulsion System



Software

Mix-source Open Ecosystem

ARDUPILOT

PX4 autopilot

MAVLINK

MICRO AIR VEHICLE COMMUNICATION PROTOCOL



1000+	300+	100+	19+	30+
Successful Cases	R&D Staff	Patents	Invention Patents	Countries & Regions

Corporate Honors

- **2025:** Recognized as a Top 10 Enterprise in the Low-Altitude Economy - Award for Top 10 Upstream/Downstream Companies in the Low-Altitude Economy Chain.
- **2023:** Certified as a Specialized, Refined, Unique, and Innovative (SRUI) SME.
- **2023:** Certified as a National-Level Innovative Enterprise.
- **2022:** Certified as an Innovative SME.
- **2022:** Certified as a High-Growth Technology Enterprise.
- **2021:** Honored as China UAV Industry: 2021 Specialized, Refined, Unique, and Innovative Enterprise.
- **2019:** Certified as a National High-Tech Enterprise.
- **2017:** SIYI was founded.

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UniRC 10 Pro

Triple-Frequency, Stable Mastery!

UniRC 10 Pro, specially designed for professional operations of UAVs, UGVs, USVs and robotics. **10.1 inch 2000 nits** large screen, **triple-frequency redundancy**, provides you stronger anti-interference capabilities. 4K 30fps decoding capability, transmission bitrates up to 65Mbps[1], AES encryption. **27CH customizable**, employs **four Hall-sensor joysticks**. **IP54 protection**, all-weather operation. Excellent control, stable mastery!



10.1 inch Big Screen
2000nit No detail missed

Triple-Frequency[2]
45KM[3] transmission

27CH Customizable
Hall-Sensor joysticks

IP54 Protection
Battery hot-swapping,
End endurance anxiety

Specifications

Processor & Chipset				Control & Interfaces			
System	Android 13			Joystick Type	Hall-Sensor Joystick	HDMI	●
Size	10.1 inch			Main Joystick	2	SIM Port	●
Resolution	1920*1200			Mini Joystick	2	USB-A	●
Brightness	2000 nit, Adaptive Brightness			3-Position Switch	6	TYPE-C	●
Frequency	Triple-Frequency Redundancy [2]			Dial	2	RJ45 Ethernet	●
	Max 45 km [3]			Knob Switch	2	TF Port	●
Transmission	20-25 km	Altitude (120 m), Few Obstruction & Medium Interference:		Button	13	3.5 mm Audio Port	●
	35-45 km	Above Sea Flight Altitude (150 m), No Obstruction & Low Interference:		Total			
Bandwidth	10M/20M			Product Weight	2.6 kg	Air Unit Weight	200 g ± 5 g
Special Features	Adaptive Frequency Hopping, Dual-Control, etc			IP Level	IP54	Temperature	-20~55℃
Endurance	About 5 hrs, Dual Batteries (Internal + External)			Product Dimensions		328.2*222.5*101.5 mm	
	Battery Hot-Swapping, Charging While Operating			Air Unit Dimensions		85*42.4*26.9 mm	

[1] Measured under near-field interference-free conditions with a 20MHz bandwidth at the air unit and ground control station ends.
[2] Operation on other frequency bands requires certification of the full system—including but not limited to drones, UGVs, and USVs—in compliance with local legal and regulatory requirements.
[3] Above sea flight altitude, no obstruction & low Interference. Please refer to actual flight for confirmation.

Applications



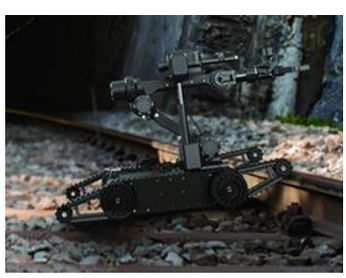
UAV
Professional Lift Drones,
Security Drones



UGV
Emergency Response UGV,
Pipeline Dredging Robot



USV
Hydrological Survey, Marine Mapping,
Oil & Gas Maintenance USVs



Robot
Firefighting & Security Robots,
Embodied AI Robots

UniRC 7 / 7 Pro

Crossing Clouds, Sailing Immediately!

UniRC 7 Series **40KM Dual-Frequency** Handheld Ground Station, delivers you industrial-grade stable transmission. Ultimate hand feel, supports **16 physical channels** and unique innovative sub joystick, help you rapidly and easily control professional payloads such as gimbals. With **7-inch 1080P HD large screen, 1600nit high brightness**, it remains clear even against backlight. Long endurance, support UAV/USV/UGV/Robot/Robotic Dog application.



Intelligent Dual-Band 40KM Video Transmission
2.4G/5G Dual-Band Redundancy
AES Encryption

Qualcomm Snapdragon Octa-Core & Android 13

High-Definition High-Brightness Display
1600nit Brightness;
1080P Resolution

Innovative Human-Machine Interaction Design
Compact Joystick;
Tap to toggle between 6 flight modes

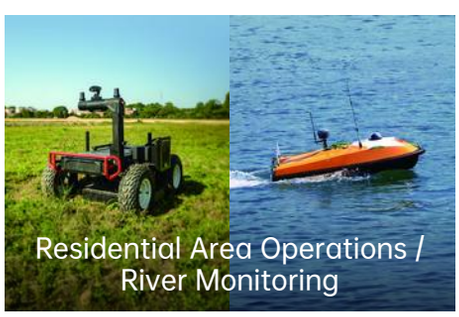
Specifications

	UniRC 7	UniRC 7 Pro
Transmission Range	40 KM	40 KM
Video TX	2.4 GHz	2.4 / 5.8 GHz
Interfaces	USB-A, Type-C, TF (microSD), SIM	USB-A, Ethernet, HDMI, Type-C, TF (microSD), SIM
Endurance	About 11 hrs	About 8 hrs
Size	274 × 190 × 100 mm	274 × 190 × 100 mm
Weight	1440 g	1460g
Display	7" • 1280×800	7" • 1920×1200
Video Bitrate	65 Mbps	65 Mbps
Communication Channels	16	16
Battery Capacity	13,400 mAh	13,400 mAh
Fast Charging	30W PD	30W PD

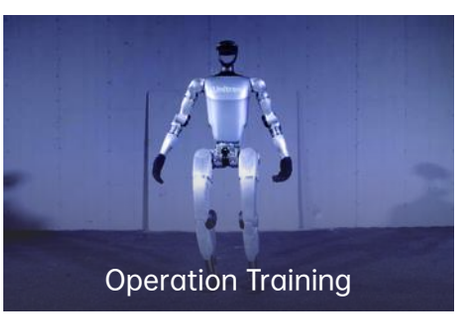
Applications



Drone Operations



UGV / USV Control



Robot System Training

MK32 Industrial-Grade Handheld GCS

Powerful Performance, Precise Coordination

MK32 is an industrial-grade handheld ground control station that integrates communication control, data transmission, and wireless HD video transmission. It features a **7-inch high-brightness touchscreen** with clear visibility in outdoor strong light conditions. Equipped with a **Qualcomm octa-core CPU**, it supports 1080P@60fps video stream decoding. It achieves a **15 km transmission range**, supports dual-operator control, control handover, and OSD telemetry display, meeting the multi-scenario operational needs of drones and other intelligent mobil mobile devices.



- 15 km Long-Range Transmission & Control Handover
- 1080P Dual-Channel Video Transmission with Low Latency
- Integration of Qualcomm Octa-Core Processor with Android Platform
- 7-inch High-Resolution, High-Brightness Display

Specifications

Max Communication Range: 15 km	15 KM
Processor	Qualcomm Octa-Core CPU
Communication Channels	16
Communacation Freq	5.8 GHz
Dimensions	308 x 148 x 72 mm
Weight	1440 g
Display	7-inch 1080p; 1000 nits
Battery Life	10 hrs
Battery Capacity	10200 mAh
Fast Charging	PD 30W
Version	Standard，HDMI Output，Dual-RC Relay
Interfaces	HDMI, USB, Type-C, SIM, LAN

Applications



Drone Operations



UGV / USV



Robot / Robot Dog Control

MK15 Enterprise

Mini Handheld Ground Control Station

Compact size, ultimate transmission. MK15 employs a full self-developed low-latency tri-band wireless transmission of video, data and remote control signal, enabling stable control and communication at distances **up to 15 km**. With **5.5-inch small screen**, its total weight is just **850g**, which is suitable for users who prefer small-sized controllers. It deeply integrates a **Qualcomm 8-core processor and Android OS**, supporting dual-channel **1080P HD video transmission** for smooth operation in complex scenarios. Its innovative dual-control mode simultaneously displays FPV feeds and enables remote controller relay, meeting operational requirements for UAVs, UGVs, USVs, and robots.

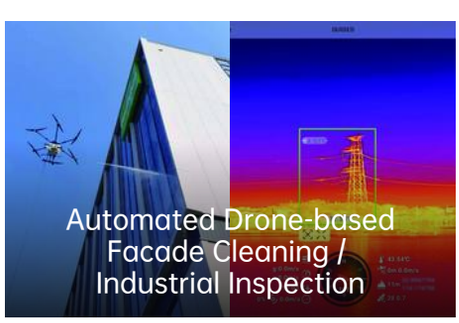


- 1080p High-Brightness Display
- Dual-control System Yet Compact and Lightweight
- Tri-band Wireless Video, Data and Remote Control Signal Transmission

Specifications

Max Communication Distance	15 KM
Processor	Qualcomm 8-core processor
Communication Channels	16
Video Transmission Frequency	5.8 GHz
Dimensions	189 x 138 x 41 mm
Weight	850 g
Display	5.5-inch, 1080p, 1000 nits
Endurance	13 hrs
Battery Capacity	10200 mAh
Fast Charging	PD 20W

Applications



Drone Operations



UGV / USV Control



Robot Dog Remote Control

MK15 Agriculture

Mini HD Display Remote Controller

MK15 Agriculture deeply integrates a **Qualcomm 8-core processor and Android OS**, delivering smooth operation. Its compact body features a **high-brightness display** for single-handed operation under direct sunlight.Tri-band wireless transmission of **video, data and remote control signal** provides adaptive anti-interference capability. With open-source flight control architecture, it offers deep compatibility with agricultural UAVs. **Paired with the SIYI's agricultural drone solutions**, it enables efficient and stable flight operations through **ultra-wide-angle blind-zone detection**. MK15 is engineered as a dedicated application terminal for agriculture. drone operations.



- Tri-band Wireless Transmission of Video, Data and Remote Control Signal
- Open-Source UAV Ecosystem
- Optimized for Agricultural UAVs
- HD High-Brightness Display (1080P)

Specifications

Max Communication Distance	15 KM	Battery Capacity	10200 mAh
Agricultural Operation Range	3.5 KM (3m flight altitude)	Fast Charging	PD 20W
Processor	Qualcomm 8-core Processor	Video Transmission Frequency	5.8 GHz
IP Rate	IP53	Dimensions	189 x 138 x 41 mm
Communication Channels	16	Weight	850 g
Endurance	13 hrs	Display	5.5-inch, 1080p, 1000 nits
Interfaces	USB-A, Type-C, SIM Slot, TF Slot, Update Port		

Applications



Pest/Weed Control



Crop Inspection



Precision Fertilization



Seeding Operations

FT24 RC Transmitter

Forza Control, Limitation Beyond

FT24 features with reliable **BVLOS control up to 15 km** with industrial anti-jamming **RF and adaptive FHSS**. It supports **MAVLink telemetry, multi-model control switching**. It is equippped with the key innovations of a **wireless trainer mode, wireless OTA updates, one-to-multiple aircraft control**, relay handover, and **batch PC parameter tuning**. It is a very highly expandable professional platform for aeromodelling.



- 15 km BVLOS Control
- Multi-device Control & Relay Operation
- Wireless Trainer Mode
- Multi-platform Smart Adaptation

Specifications

Max Communication Range	15 km	**FR Receiver**	
Operating Frequency	2.4 GHz	Signal Output	16-Channel S.Bus, 8-Channel PPM, 8-Channel PWM
RF channels	16	Interface	UART
Antenna gain	2 dbi	Operating Voltage Range	5 V-8.4 V
Rated operating current	210 mA	**FR Mini Receiver**	
Dimensions	191 x 175 x 64mm	Signal Output	16-Channel S.Bus, 8-Channel PPM
Weight	586 g	Interface	UART
Battery	18650 *2 cells or 2S Lipo Battery	Operating Voltage Range	5 V
Compatible Platforms	Fixed-Wing Drone, Helicopter, Glider, Multirotor, UGV, USV		

Applications



Drone Operation Control



Education & Training



Innovation Expansion



Aeromodelling Flight Control

DK32S Industrial-Grade Data Transmission RC

Go the Distance. Connect the Future.

DK32S utilizes proprietary bidirectional **2.4G SHTT** and frequency hopping, enabling stable BVLOS control **up to 20 km**. Features **16 channels with 5ms ultra-low latency response**, compatible with mainstream commercial and open-source flight controllers, and adaptable to various models including UAVs, UGVs, and USVs. Enables seamless one-transmitter-multi-device control and remote relay switching, significantly enhancing operational experience.



- 20km Communication Range with FHSS Anti-Interference
- Programmable Mixing & Fail-Safe Protection
- Multi-Model Flight Controller Compatibility
- One-to-Multiple Drones Control / Trainer Mode

Specifications

Max Communication Range	20 KM	Battery Capacity	3.7V 5000mAh 1S LiPo Battery
Communication Frequency	2.4 GHz	Charging Interface	Micro-USB
Communication Channels	16	Display Size & Resolution	2.8 inches, 240x320
Joystick Resolution	4096 Levels	Dimensions	194.5 X 172.5 X 114 mm
Endurance	12 hrs	Weight	610 g
Platforms Application	Drones, Gliders, Helicopters, UGV, USV Robots		

Applications



Power Line Inspection



Agricultural Sprayin Operations



Drone Pilot Training



Logistics and Dispatching

HM30

Full HD Wireless Digital Transmission System



HM30 is a high-performance wireless video transmission system offering **20 km long-range communication with FHD 1080p60 video streaming**. Compact and lightweight, with a total weight of only **132g**, making it effortlessly protable. It enables dual-operator cooperative control, features OSD telemetry overlay, and includes an **OLED status display**. With quick-swap battery compatibility and **PD fast charging**, it meets industrial demands for long-range, low-latency, and highly reliable communication and control.

- 1080P Dual-Channel Video Transmission
- Dual-Operator Control & Lightweight
- 20 km Communacation Range with Low Latency
- Extended Endurance of Quick-Swap Batteries

Specifications

Max Communication Range	20 KM	Supported Ground Control Station	UniGCS/QGC/MP(only H264)
Communication Channels	16	Battery	Quick-release NP-F550/F750/F950 series batteries
Communication Frequency Band	5.8 GHz	Fast Charging	PD 30W
Weight	109 x 61 x 28 mm	Waterproof Rating	IP53
Dimensions	132 g	Interfaces	Type-C, LAN, VCC, PWR, UART
Display	0.96-inch OLED screen		

2.4G Datalink

Engineered for Professional Drone Communication

2.4G Datalink uses advanced **SHTT Digital Frequency Hopping Technology**, enabling long-range communication and **exceptional anti-interference performance even at low transmission power**. Designed for professional scenarios, it supports future firmware upgrades for enhanced functionality.

- 15 km Long-Range Communication
- Exceptional Anti-Jamming Capability
- PC-Based Parameter Tuning & Firmware Updates
- Advanced RF Modulation Scheme



Specifications

Max Communication Range	15 KM	Air Data Rate	325 kbps
Communication Frequency	2.4 GHz	UART Baud Rate	Default 115200
Transmit Power	200 mW	Dimensions (without antenna)	50 x 35 x 16 mm
Data Olutput Interfaces	UART, USB (compatible with Android devices and PC)	Weight (without antenna)	35g

FM30

30KM Bluetooth Data/Telemetry Transceiver



FM30 integrates **RC & data communication module** engineered for **30 km links**. **Adaptive bandwidth, FHSS and bidirectional telemetry** for robust long-range links. Built-in Bluetooth enables **on-site flight-controller parameter tuning and real-time preview**. OTA updates and USB simulator features engage convenient operation and maintenance. The FM30 is an ideal solution for long-range operations and remote control communication.

- Ultra-Long Range 30km Transmission
- Auto Frequency Hopping &Two-Way Telemetry
- Bluetooth Parameter Adjustment & Real-Time Status Preview
- 2.4 GHz Open ISM Band

Specifications

Communication Range	30 km	Power consumption	0.7 w
Latency (protocol mode)	UART、S.Bus、PPM	Operating temperature	-10℃~55℃
Signal Input	16	Weight	36 g
Transmission Channels	5-8.4 V	Dimensions	70 x 20 x 33 mm
Input voltage	0.7 W	Antenna Gain	3 dbi

UniPod MT11

New-Era Mini Four-Sensor Optical AI Pod

Reebot Strategic Collaboration Product

UniPod MT11 new-era mini four-sensor optical AI pod integrates **a wide-angle camera, a zoom camera, an infrared camera and a laser rangefinder**, supports up to **8K & 48MP photography. Built-in 10T computing power AI algorithm**, it achieves AI recognition without any other external AI module. **With spherical structure, it adapts to an extreme airspeed of 140 km/h**, and suitable for various applications of multi-rotor UAVs & VTOLs, such as inspection, emergency rescue, security, surveying & mapping, etc.



- 10T Computing Power
- 8x HD Thermal Imaging Support AI Super-Resolution
- AI-Powered Recognition & Tracking
- IP54+Full-Color Night Vision All-Weather Operation

Specifications

Zoom Camera		Wide-angel Camera	
Focal Length	15-50 mm (Equivalent Focal Length: 81-270 mm)	sensor	1/2" CMOS
Sensor	1/2" CMOS	Focal Length	Focal distance: 4.5 mm (Effective focal distance: 24 mm)
Lense	11x Optical Zoom, 165x Hybrid Zoom	Photo Resolution	3840*2160, 8000*6000
Photo Resolution	3840*2160, 8000*6000	FOV	84°
Thermal Camera		**Laser Rangefinder**	
Sensor	VOx Sensor, Pixel Pitch: 12 μm	Measuring Range	5 - 1200 m
Spectral band	8 - 14 um	Measurement Accuracy	±1 m
Resolution	640*512, 1280*1024@AI	Resolution	0.1 m
Digital Zoom	8x		
Total			
IP Level	IP54	Imaging Capability	11x Optical Zoom, 165x Hybrid Zoom, 48MP Effective Pixels
Product Dimension	141.5*141.5*169 mm (With the Quick Release Anti-Vibration Board)	Product Weight	533.5±5 g (With the Quick Release Anti-Vibration Board)

Applications



Traffic Inspection



Power Line Inspection



Terrain Mapping



Emergency Rescue

ZT30 Multi-Sensor Optical Pod

Four-Sensor Fusion, Ultimate Vision.

ZT30 Multi-sensor Optical Pod integrates **a hybrid zoom camera, high-resolution thermal imager, 1200-meter laser rangefinder,** and **wide-angle camera**, delivering comprehensive situational awareness through four-sensor fusion. It supports **EO/IR link zoom,** arbitrary splicing of **three video streams,** and **full image, box, and point temperature measurement.** With high-precision 3-axis stabilization and an unlimited yaw-rotation mechanism, ZT30 provides continuous, stable, and blind-spot-free imaging for UAVs, UGVs, and other unmanned platforms.

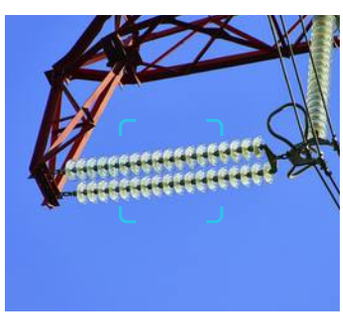


- Quad-Sensor Synergy Triple Feed On-Screen
- 4K Visible Light & HD Thermal Imaging Link Zoom
- AI Recognition & Tracking
- 1200-meter Ranging with Precision Spot Thermometry

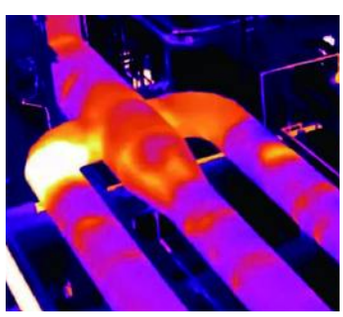
Specifications

Zoom Camera		Wide-angel Camera	
Focal Length	4.8~149 mm （±5%）	sensor	1/2.8-inch CMOS; 4 MP
Sensor	1/2.7-inch CMOS; 8 MP	Focal Length	Equivalent 21mm
Lense	30x Optical Zoom; 180x Hybrid Zoom	Resolution	2560×1440
Resolution	4K(3840 x 2160)@ 30 fps	FOV	Horizontal 88°
Thermal Camera		**Laser Rangefinder**	
Sensor	Uncooled VOx microbolometer	Laser Measurement range	5 ~ 1200 m
Spectral band	8 ~ 14 um	Resolution	0.1 m
Resolution	640 × 512	Wavelength	900 ~ 908 nm
Lense	19mm Focal Length / 2x Digital Zoom	Laser Pulse Frequency	3 Hz
Total			
Interface	Ethernet, S.Bus, UART, UDP	Gimbal Angular Jitter	±0.01°
Product Dimension	134.5 × 140 × 201 mm	Product Weight	854 g

Applications



Powerline Inspection



Oil & Gas Pipeline Monitoring



Firefighting & Emergency Response



Smart Inspection Robot Integration

ZT6 Mini Multi-sensor Optical Gimbal

Dual Sensors, Miniature & Lightweight

ZT6 integrates two sensors, a **640×512 high-resolution thermal imager and a 4K visible-light camera.** Equipped with **link zoom, full-frame temperature** measurement, and powered by optional AI modules, it can achieve precise heat-source localization and intelligent target tracking. With a **540-degree rotation** range and upgraded **high-precision stabilization algorithm** ensure steady footage during flight. Compatible with mainstream flight controllers via multi-protocol gimbal interfaces, it is a lightweight product designed for multi-rotor, VTOL, fixed-wing drones, and for smart robotics.



- High-Resolution Thermal Imaging & 4K Dual-Sensor Collaboration
- AI Recognition and Tracking (with AI Module)
- 540° Full Field of View & 3-Axis Stabilized Imaging
- Intelligent Temperature Measurement & Dual Optical Link Zoom

Specifications

General Parameters			
Dimensions	73.5 x 75 x 131.5 mm	IP Grade	IP53
Weight	197 g (including reducer)	Gimbal Angular Jitter	± 0.01°
Visible Light Camera		**Infrared Camera**	
Lens	Fixed Focal Length with 6x Digital Zoom	Thermal Imaging Sensor	Uncooled Vanadium Oxide (VOx) Microbolometer
Equivalent focal length	20 mm	Lens	13mm F1.0 Fixed Focus Athermalized Lens
Sensor	Sony 1/2.8-inch CMOS; 8MP	Zoom	2x Digital Zoom
Resolution	3840 x 2160	Spectral Band	8~ 14 um
Aperture	F2.8	Temperature Measurement Accuracy	-20 ~ 150℃ (±2℃) 50 ~ 550℃ (±5℃)

Applications



Night Patrol



Emergency Rescue



Indoor Inspection



Urban Security

ZR10 Optical Pod

Steady Frame Control, Clear Moment Insight

ZR10 is the first **cost-effective zoom EO pod** developed by SIYI Technology. Equipped with a **4MP starlight-level sensor**, it supports **10x optical zoom and 30x hybrid zoom**. I**ndustrial-grade 3-axis stabilization algorithm and FOC motor** control ensure stable imaging throughout zooming process. Compatible with third-party interfaces, **Gimbal supports inverted installation and multiple operation modes of Follow, FPV and Lock modes**. It delivers precise observation for multirotor UAVs.



- Intellegent Zoom: Precision target identification
- Open Ecosystem Seamless integration
- AI Recognition & Tracking (with AI module)
- Starlight Sensor Ultra-clear night vision

Specifications

Lens	10x Optical Zoom (30x Hybrid Zoom)
Focal Length	5.15±5%~47.38±5% mm
Min. Focus Distance	200 mm
Image Sensor	1/2.7-inch CMOS, Effective Pixels: 4MP
Gimbal Angular Jitter	±0.01°
Video Recording (TF Card)	2K（2560×1440）@30fps
Video Output Interface	Ethernet Port
Control Signal Input	S.Bus、UART、UDP
Dimensions	121 x 101 x 78 mm
Weight	381 g

Applications



Public Security Inspection



Environment Monitoring



Explosion-Proof Inspection for Energy Sector



Wildfire Prevention

ZR30 Optical Pod

Unshakable Stability • Master Day & Night

ZR30 features **a 1/2.7-inch Sony CMOS sensor** supporting **180x hybrid zoom and 30x optical zoom**. Integrated **spot focusing and rapid focus-following,** it delivers exceptional light sensitivity and image quality. With **Starlight Night Vision and HDR tech**, it adapts to all-weather complex environments. Compatible with **multiple control protocols and optional AI tracking module,** it supports multi-platform deployment for UAVs, VTOLs, and intelligent robots.



- Starlight Night Vision: Ultra-clear imaging in low light
- Triple Stabilization
- 30x Optical Zoom 180x Hybrid Zoom
- 360° Rotation: Vibration-damped Quick-release design

Specifications

Lens	30x Optical Zoom (180x Hybrid Zoom)	Gimbal Angular Jitter	±0.01°
Focal Length	4.5±5%~148.4±5% mm	Dimensions (w/QR Plate)	132 x 101 x 180 mm
Image Sensor	1/2.7-inch CMOS, 8MP (Effective Pixel)	Weight (w/QR Plate)	668g
Photo / Video Format	JPG / MP4		
Video Resolution	4K(3840×2160)@ 25 fps, 2K(2560×1440)@ 25 fps, 1080p(1920×1080)@ 25 fps, 720p(1280×720)@ 25 fps		

Ethernet-to-HDMI Converter Module

Instant Connection, Instant Visualization

Based on advanced video codec technology, this module converts Ethernet RTSP streams into real-time HDMI signals compatible with most displays. It supports **OSD overlay in Mavlink protocol** that synchronizes flight data and image display. It enables **local MP4 recording with TF card configuration for IP, stream address, OSD control**. It delivers **plug-and-play visualization** for UAVs, robotics and other intergrated engineering.



- RTSP-to-HDMI Conversion Real-Time Video Transcoding
- Mavlink OSD Overlay Flight Data Visualization
- Compact Design Simplified Integration
- Real-time Recording Local Storage

Specifications

Input Interface	Ethernet Port	Compatible Models	ZT30 / ZT6 / ZR30 / ZR10
Output Interface	Micro-HDMI	Dimensions	43.4 x 45.1 x 26.5 mm
Recording Bitrate	12 Mbps	Weight	60 g
Recording Resolution	1080p @ 30 fps, 720p @ 30 fps		

A8 Mini Gimbal Camera

Precise Focus, Stunning Visual Performance

Featured with a **1/1.7-inch Sony CMOS sensor**, the **A8 mini supports 4K video recording and 6x digital zoom**. With **Starlight Night Vision** and **HDR imaging**, it delivers clear footage in low-light and high-dynamic scenes. Compatible with SIYI AI Tracking Module II, A8 mini archives **multi-target recognition and continuous tracking function**. It supports **mainstream flight controllers** and pioneers gimbal **adaptive modes** suitable for Nose/Inverted/FPV, providing precise focus-tracking for drones and UVS.



- 1.7-inch Large Sensor 4K Imaging with Sony CMOS
- AI Recognition & Tracking (with AI module)
- Starlight Night Vision 3-axis Stabilized Output
- Multi-Mount & Operation Gimbal Modes

Specifications

Lens	Fixed Focus, 6x Digital Zoom
Equivalent Focal Length	21 mm (EFL)
Sensor	Sony 1/1.7-inch CMOS • 8MP Effective Pixels
Video Resolution	4K(3840×2160)@25fps, 2K(2560×1440)@25fps, 1080p(1920×1080)@25fps, 720p(1280×720)@25fps
Photo/Video Format	JPG / MP4
White Balance	Auto
Gimbal Angular Jitter	±0.01°
Dimensions	55 x 55 x 70 mm
Weight	95 g

Specifications



Emergency Search & Rescue



Traffic Violation Patrol



Race Tracking Video



USV Inspection

A2 Mini Gimbal Camera

Industrial IP-Rated Protection, Ultra-Wide Vision

Featured with a **160° horizontal view angle** with **distortion-correction algorithms**, this ultra-wide FPV gimbal achieves **IP65 industrial protection** in a compact form. Equipped with a **Starlight CMOS delivering 1080p clarity**, its single-axis pitch design is dedicated to **agricultural drones for spraying operation and checking**. It supports inverted **mounting and Ethernet video** output, compatible with third-party video links and ground stations, ideal for compact UAVs, USVs, robotics, and fixed-wing models.



- IP65 Industrial Protection Dustproof & Water-jet Resistant
- Starlight CMOS 1080p Low-light Clarity
- Ethernet Output Third-party System Compatible
- 160° FOV Ultra-wide View

Specifications

Video Output	Ethernet Port
Control Input	S.Bus / PWM / UDP over Ethernet
Sensor	1/2.7-inch CMOS • 2MP Effective Pixels
Lens FOV	160° Horizontal
Pitch Range	-90°~+25°
Ingress Protection	IP65
Dimensions (L×W×H)	65 x 43 x 50 mm
Weight	85 g

Specifications



Agricultural Drone Spraying



USV Inspection



Crop-Spraying Robots

SIYI AI Tracking Module II

Intellegent Recognition, Precise Targeting

Powered by 10 TOPS computing performance, the AI Tracking Module II deeply integrates with optical pods and flight control systems to enable **intelligent recognition, dynamic tracking of arbitrary targets, and real-time follow-fly**. It enhances target locking through **real-time zoom/focus adjustment** and supports **continuous tracking of vehicles, vessels, person, aircraft, insulators**, etc., in complex environments via aircraft-guided modes. Delivering quick and thorough **solutions for inspection, rescue, and traffic monitoring**, it redefines intelligent tracking standards for industrial drones.

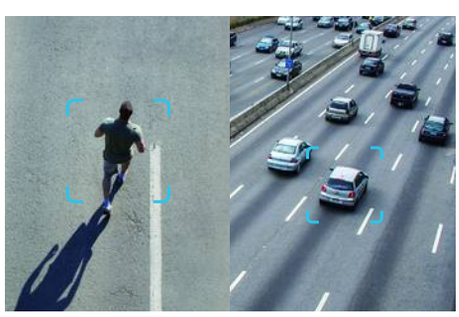


- 10 TOPS Computing Platform
  High-efficiency AI Processing
- Multi-Target Multimodal Recognition
  Simultaneous Identification of Diverse Objects
- One-Click Intelligent Targeting
  Automated Trajectory Synchronization
- Custom Target Framing
  Manual Selection for Specific Tracking

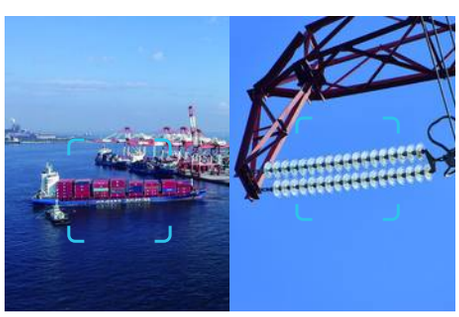
Specifications

Computing Power	10Tops @ INT8
Recognition / Lock Accuracy	95%
Video Encoding	H.264/H.265
Compatible Pods	ZT30/ZT6/ZR30/ZR10/A8 mini
Dimensions (L×W×H)	52 x 52 x 29 mm
Weight	88 g
Pod Collaboration	Target Locking / Auto Zoom / On-Screen Centering / Intelligent Follow-Fly
Objects for Dynamic Intelligent Recognition and Tracking (No Box Required)	Transmission Tower Insulators, Pedestrians, Cars， Vessels, Smoke, Aircraft

Specifications



Person Detection /
Vehicle Detection



Vessel Detection /
Insulator Detection



Flame Detection /
Animal Detection

UniFC 6 PICO

Pico In Size, Universe The Flight

UniFC 6 PICO is a mini industrial-grade autopilot system built by SIYI Technology, which only weight 40g and compatible with Ardupilot/PX4 protocol. With STM32H7 processor, dual IMU & barometer redundancy, support IMU heating, and integrates a 100Mbps Ethernet port. One Core, Everything you need. Delivering you a seamless unmanned system integration experience.



- **Highly Integrated**
  Smaller & lighter
- **STM32H7 Processor**
  480MHz + 2M Flash
- **Dual IMU +**
  Dual Barometer
  IMU Heating
- **100Mbps Ethernet**
  Stronger expansion capability

Specifications

Hardware			
Processor Frequency / Flash / RAM	STM32H743IIK6 480MHz / 2M / 1M	IMU	ICM45686+BMI088
		Barometer	ICP20100 *2
		IMU Heating	Support
PWM Switching	3.3V / 5V	Compass	IST8310
Interfaces	5*UART Serial Port；3*I2C；2*CAN Port；14*PWM Output；1*RC IN (SBUS、PPM)； 1*PM Power Module Input；1*USB Port (Type-C)；1*TF Card Slot；1*Ethernet Port		

Overall			
Power Port Operating Voltage	4.5 ~ 5.5 V	Operating Temperature	-30 ~ 60 ℃
USB Input Voltage	5 V (±0.25 V)	Dimensions	49 x 42.6 x 16.2 mm
Servo Input Monitoring Voltage	0 ~ 9.5 V	Weight	40 g
Support Model	PX4 / ArduPilot Firmware (Fixed-Wing, 3-8 Axis Multirotor, Helicopter, VTOL, UGV, USV, etc.)		

Applications


Multi-Rotor UAV


Fixed-Wing / VTOL


FPV / Helicopter


UGV


USV

UniGNSS M10

DroneCAN Communication, Global Navigation Satellite System Module

SIYI UniGNSS M10 module adopts DroneCAN communication, offering enhanced expandability and flexibility. Equipped with u-blox M10 system, IST8310 compass, dual LNA+SAW filtering design, support Ardupilot / PX4 protocol. Multi-model compatibility, enable seamless connectivity and endless possibilities.



10th-Generation Satellite Receiver System

Four GNSS Concurrent Reception
GPS/QZSS/GLONASS/ BeiDou/Galileo

DroneCAN Communicationt

LNA+SAW Dual Filtering

Specifications

Specifications			
Satellite Receiver	UBX-M10050	Satellite Bands	GPS L1 C/A QZSS L1 C/A, L1S GLONASS L1OF BeiDou B1I/B1C Galileo E1B/C SBAS L1 C/A
Processor	STM32L431		
Electronic Compass	IST8310		
Positioning Accuracy	Horizontal: 1.5m CEP		
Filtering	LNA+SAW	Sensitivity	Tracking & Navigation: –167 dBm Reacquisition: –160 dBm Cold Start: –148 dBm Hot Start: –159 dBm
Communication protocol	Drone CAN		
Acquisition Time	Cold start: 28s, Assisted start: 1s, Hot start: 1s		
Data Refresh Rate	Up to 25 Hz (Single GNSS) Up to 10 Hz (⩾3 concurrent GNSS)		
Overall			
Product Dimension	50.3 mm x 50.3 mm x 13.6 mm	Working Voltage	4.5 ~ 5.5v
Product Weight	31 g	Working Temperature	-30°~60°

Applications


Multi-Rotor UAV


Fixed-Wing / VTOL


FPV / Helicopter


UGV


USV

N7 Flight Controller

High-Efficiency Operation, Precise Control

Equipped with a high-performance H7 processor and dual-precision FPU, the N7 delivers exceptional computational power and rapid data processing. Featured with **dual IMU redundancy , dual magnetometer redundancy**, internal damping, and a **thermostatic control system**, it ensures reliability in extreme environment. **Supporting PX4/ArduPilot ecosystems and RTK/PPK compatibility**, it reaches **cm-level positioning** and paves a way for further development in the fields of UAVs, UGVs, and USVs.



- 480MHZ High-Efficiency Operation
- RTK/PPK Compatibility Centimeter-accurate Positioning
- Multi-Platform Solution Unified Control for Drones/Rovers/Vessels
- Dual IMU & Magnetometer Hardware Redundancy Design

Specifications

Main Processor	STM32H743IIK6	USB Voltage	5 V (±0.25V)
Co-Processor	STM32F103	Operating Voltage	4.5 ~ 5.5 V
Accelerometer / Gyro	BMI088/ICM20689	Servo Input Voltage	0 ~ 10 V
Barometer	MS5611	Operating Temperature	-20° ~ 65°C
Magnetometer	IST8310	Dimensions	47 × 68 × 19 mm
PWM Output	8 Standard PWM + 5 Programmable I/O	Weight	57 g
Supported Platforms	Fixed-wing & 3-8 Rotor UAV / Helicopter / VTOL / UGV / USV		
Interfaces	4× UART / 3× I²C / PM Power Input / CAN Bus / GPS Safety Switch / RC IN / TF Slot		

Applications



Base Flight Control



Precision Positioning



Communication Link



Gimbal Pod Integration

RTK Positioning & Orientation Module

Dual-Antenna against Interference, cm-Level Accuracy

The module employs **multi-constellation, multi-frequency positioning** technology, supporting BeiDou, GPS, GLONASS, Galileo, and QZSS systems to achieve high-precision positioning and exceptional reliability. Featuring **an RM3100 industrial magnetometer and single-module dual-antenna design**, it ensures stable operation in complex electromagnetic environments. The module is compact, lightweight, and ultra-low-power, delivering industry-leading precision to enable **efficient positioning, precise navigation, and rapid control response** for unmanned systems. It provides a high-accuracy and anti-jamming positioning solution for drones and robotics.



- Full-band, Multi-system Support
- PNI RM3100 Magnetometer Industrial-grade Interference Immunity
- Integrated Dual-Antenna Heading with a Single Module
- Compact Yet Low Power

Specifications

Magnetometer	PNI RM3100	TTFF	Cold Start: <30s • Hot Start: <5s
GNSS Systems	GPS, GLONASS, BeiDou, Galileo, QZSS	Power Consumption	1 W
Positioning Accuracy	Horizontal: 0.8cm + 1ppm, Vertical: 1.5cm + 1ppm	Operating Temp.	–30 ~ 75 °C
Heading Accuracy	0.2° (1m baseline)	Dimensions	40 x 30.5 x 15 mm
Max. Satellites	28+ (Single), 50+ (RTK)	Weight	22.8 g

F9P RTK

Precise. Efficient.

Equipped with **four-satellites and multi-frequency Navigation and Positioning System**, it delivers **cm-level accuracy in positioning/altitude checking with dual-module heading**. It maintains a strong **anti-interference power** in magnetic fields. The module supports **rover/base station switching and integrates with PX4/ArduPilot**.

- Quad-Constellation cm-Accuracy
- Rover/Base Switching Flexible Deployment
- Dual-Module Anti-InterferenceHeading
- IST8310 Onboard High-precision Compass



Applications

Receiver	184-channel u-blox ZED-F9P	TTFF	Cold Start: <23s • Hot Start: <1s
Magnetometer	IST8310	Power Consumption	0.6 W
GNSS Systems	GPS, GLONASS, BeiDou, Galileo	Operating Temp.	–30 ~ 75 °C
Positioning Accuracy	1cm + 1ppm	Dimensions	47 x 33 x 13 mm
Heading Accuracy	(0.25 / R)°, R = Baseline (meters)	Weight	31 g

M9N GPS

GNSS Module

M9N GPS module integrates **LNA and SAW dual-stage filtering** with a high-gain antenna, ensuring robust positioning performance in complex environments. Supporting update rates up to 25 Hz, it provides **low-latency, high-reliability data for waypoint navigation, precision hovering, and mission-critical flight operations**. Featuring a **UART interface and industrial-grade housing**, the M9N is a compact, high-accuracy GNSS receiver optimized for seamless integration with flight control and autonomous navigation systems.



- Dual Anti-jamming and Filtering Design
- Four-Satellite High GainAntenna
- Physical Interaction Indicators & Multi-Interface Definitions

Specifications

Compass	IST8310	Max Satellite Numbers	30+
Satellite Receiver	UBLOX Neo M9N	Filtering	SAW * LNA
GNSS AugmentationSystem	SBAS: WAAS,EGNOS, MSASQZSS: L1s (SAIF)	Input Voltage	4.8~5.2 V
Positioning Accuracy	3D FIX, 2.0 m (up to 0.8 m)	Operation Temperature	-10-70°C
Speed Accuracy	0.05 m/s	Dimension	50 x 50 x 13.1 mmm
Navigation Update Rate	25 Hz (Max)	Weight	35g
GNSS Bands	GPS -L1 C/A, GLONASS-L10F, Beidou -B1I, Galileo -Elb/c		

N7 Flight Controller Power Module

Stable Power Supply with Intelligent Monitoring

The N7 Power Module is a high-performance product for flight controllers, supporting a wide **input voltage range from 2S to 14S**. Equipped with intelligent battery monitoring, it provides **real-time detection** of battery voltage and current, estimates remaining capacity and flight time, enhancing flight safety. The module **features RVP to improve device safety and redundancy**.



- Wide Voltage Input & Regulated Output
- Intelligent Battery Monitoring
- Reverse Connection Protection

Specifications

Input Voltage	2 ~ 14S	Mainboard Peak Current	100 A (for less than 60 seconds)
Output Voltage	5.2 V	Dimensions	23 × 29 mm (mainboard size)
Voltage Divider	18.18	Weight	32 g (including cables and connectors)
Mainboard Continuous Current	60 A		

Autopilot

Hall Effect Current Sensor Power Module

Contact-Free. Precision-Ensured.

The Hall effect current sensor power module is paired with a Hall current meter, **supporting 7-100V voltage input and detection**. It utilizes non-contact Hall sensors for **high-precision current measurement, eliminating errors caused by contact resistance** and **electrical isolation**, thus **providing stable and reliable power supply along with accurate power data**. Featuring an **all-metal CNC** enclosure with **excellent heat dissipation**, it is compact and easy to install.



Wide Voltage Input and Detection

Non-Contact Current Measurement

Hall Sensor Current Meter

Excellent Thermal Performance

Specifications

Input voltage range	7 ~ 100 V	Current measurement accuracy	±0.1 A
Voltage division ratio	31.303	Maximum measurable current	180 A
Voltage output	5.35 V(±0.03 V)	Wire-through aperture	9 mm
Maximum current output	6 A	Dimensions	Power module: 28.6 g | Hall sensor: 9.4 g
Current measurement accuracy	Power module: 42.5 x 31.5 x 16 mm | Hall sensor: 25 x 25 x 9 mm		

MS4525 Airspeed Module

Precise Airspeed, Stable Flight

The MS4525 Airspeed module is a digital airspeed measurement module designed by SIYI for fixed-wing and VTOL UAVs. It accurately measures **flight airspeed to prevent stalling, ensuring safe takeoff, landing, and flight operations. Compact and lightweight**, it is applicable for various UAV platforms, providing reliable flight safety assurance.



Digital Measurement with High Precision

Stall Prevention

Compact and Lightweight for Easy Integration

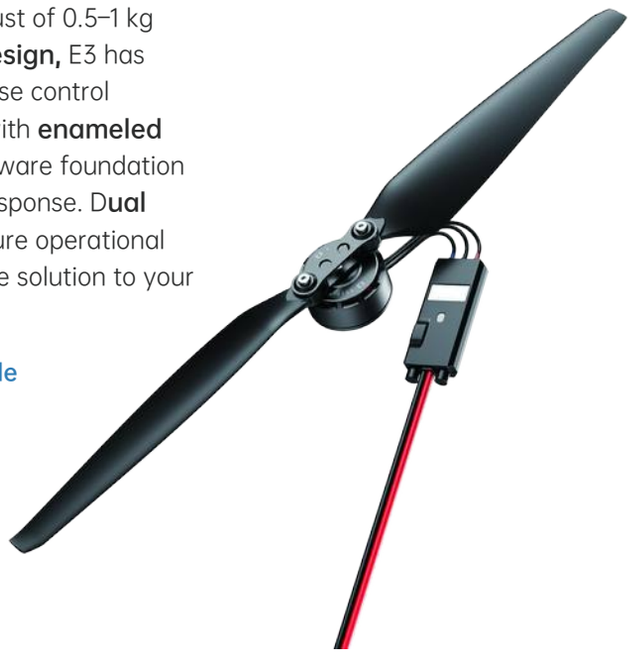
Specifications

Sensor	MS4525	Operating Voltage	4.5 ~ 5.5 V
Measurement Accuracy	±0.25% SPAN	Operating Temperature	-25 ~ 75°C
Operating Pressure	1 psi	Dimensions	25 x 16 x 13 mm
Communication Interface	I2C	Weight	3 g (excluding pitot tube and cables)

E3 Propulsion System

Efficiency redefined. Performance realized.

The E3 Propulsion System delivers a recommended per-axis thrust of 0.5–1 kg with efficiency reaching 9.5 g/W (1 kg). Featuring **a modular design,** E3 has undergone rigorous tuning and deep integration to ensure precise control response and extraordinary stability. The motor is engineered with **enameled wire and premium NMB bearings,** establishing a robust hardware foundation for long-term reliability. ESC utilizes **FOC** for millisecond-level response. D**ual PWM / CAN bus communication** and real-time telemetry ensure operational safety in harsh environments. E3 provides the intelligent, reliable solution to your drone propulison with precision and stability.

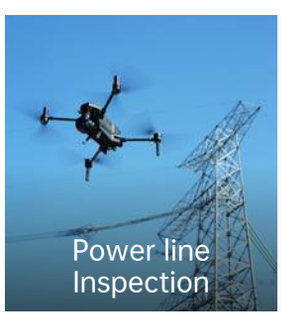


- FOC
- Linear Control-to-Throttle Precision
- Low-Resistance MOSFETs
- Optimized Electromagnetic
- Dual Redundant PWM & CAN Communication
- Unified Trinity, Deeply Integrated

Specifications

General Parameters		ESC Parameters		Motor Specifications	
Maximum Thrust (Signle-aixs)	2.2 kg (16A)	Max. Operation Curret	16 A	Stator Size	35.1 mm*10 mm
Recommended Thrust (Signle-aixs)	0.5~1 kg	Peak (Burst) Current	50 A	KV	350 rpm/v
Single-Axis Thrust Efficiency	9.5 g/w (1 kg)	Rated Operating Voltag	6 S (LiPo)	Slot-Pole Configuration	12N14P
Compatible Drone Wheelbase	600 mm - 700 mm	Throttle Input Range	1050 µs - 1950 µs	Shaft Diameter	ϕ4 mm
Voltage Platform	6 S	Throttle Signal Frequency Range	50 Hz ~ 490 Hz	Bearing Model	604ZZ
Signal Protocol	CAN / PWM (5V / 3.3V Compatible)	Throttle Response Speed	220 ms	Magnet Type	N48SH
Ingress Protection	IPX5	Weight	46.5 g ± 0.1 g	Weight	120 g ± 1 g
Operating Temperature Range	-20~50 ℃	Control Path	FOC	Motor Dimensions	42.4*27 mm
Propeller Parameters		Power Cable	16AWG*500 mm	Idle Current	0.35 A
Diameter	15.5 inch / Propeller / Folding Propellers	Signal Cable	28AWG*550 mm	Phase Resistance	0.26 Ω
Pitchv	5.8 inch / Material / Carbon-Plastic Composite	Motor Phase Connectors	3.5 mm Gold-Plated Bullet		
	Weight / 26 g ± 0.5 g	ESC Dimensions	65.35*26*11.5 mm		

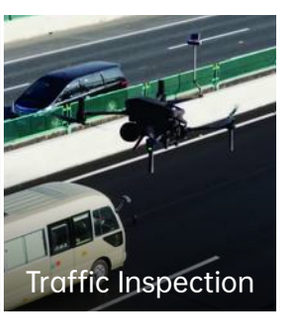
Applications



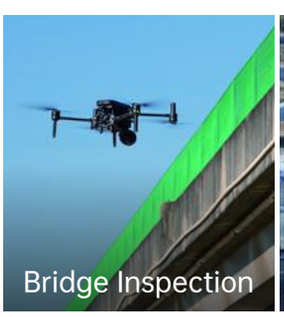
Micro-Industrial Flagship Drone



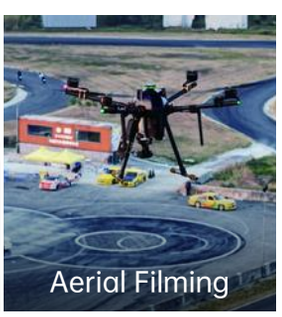
Micro-Industrial Flagship Drone



Micro-Industrial Flagship Drone



Micro-Industrial Flagship Drone



Aerial Imaging Drone

E8 Propulsion System

Unmatched Cooling for Ultimate Thrust

The E8 propulsion system delivers up to **18.5 kg of thrust per rotor**. The ESC features **fully isolated throttle signaling and an optimized FOC algorithm** for precise, responsive control. A high-strength composite housing, premium bearings, and dynamically balanced rotors ensure **smooth, low-noise operation even under heavy loads.**
A centrifugal airflow path and efficient thermal layout sustain continuous power output during demanding missions.
With a 150A instantaneous peak current capacity, the system allows the drone to generate powerful, reliable burst thrust during **heavy-lift rapid climbs or emergency braking hovers,** effortlessly handling every performance challenge. The E8 redefines the industry standard for propulsion with battle-tested reliability.

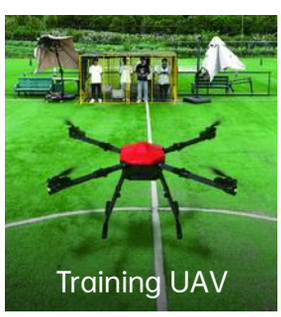


- **Maximum Thrust 18.5kg per Axis**
- **Efficiency @10-8 g/W**
- **Planar Thermal Architecture for Quick Heat Dissipation**
- **Integrated Design, Modular Assembly**

Specifications

General Specifications		ESC Specifications		Motor Specifications	
Maximum Thrus	18.5 kg (Signle-aixs)	Model	80 A FOC	KV	110 rmp/v
Recommended Takeoff Weight	5-8 kg (Signle-aixs)	PWM Input Voltage	3.3/5 V	Stator Size	81*18 mm
Recommended Battery	12-14S LiPo	Throttle Pulse Width	1050-1950 μs	Slot-Pole Configuration	36N40P
Cable Length	Power Cable: 1000 mm Signal Cable: 1100 mm	PWM Frequency	50-500 HZ	Weight	526 g
Signal Protocol	IPX6	Max. Operating Voltage	63 V	Propeller Specifications	
Tube Diameter	ϕ40 mm	Operation Current	80 A (Excellent Heat Dissipation)	Diameter	32*12.0"
Weight (Excluding Propeller)	960 g	Max. Current	150 A (Peak Current 3s)	Pitch	240 g
Efficiency[1]	10.0-8.0 g/w	Communication Protocol	CAN		
RatedInputPower	1042 w	Firmware Upgrade	Support		
Rated Output Power	908 w	Digital Throttle	CAN		

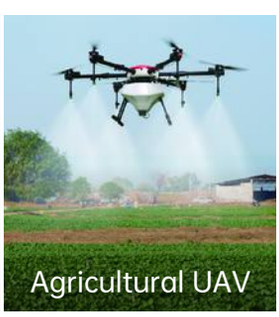
Applications



UAV Training & Education



Aerial Inspection



Crop Spraying



Logistics Transport



Smart City Mapping

E6 Propulsion System

Surging Thrust, Fly with A Bold Heart

Empowered by SIYI innovative integrated tech, E6 propulsion system **incorporates advanced FOC vector control technology, dual-redundant PWM & CAN throttle support, and a potting sealing process to ensure stable performance in extreme environments. It features intelligent data monitoring and fault storage capabilities.** E6 employs the features with an **IPX6 protection rating and a per-axis thrust range of 12.5 kg (Single-axis) .** E6 combines powerful performance, precise control, and high reliability, making it an ideal choice for the crop spraying drone, the training drone, and the industrial drone applications.



- Dual-throttle Redundancy for Anti-interference
- Intelligent Protection with High-efficiency ESC
- Highly Integrated All-in-one Design
- High-ruggedness Environmental Sealing

Specifications

Maximum Thrust	12.5 kg (Single-axis)	Communication Protocol	CAN
Recommended Takeoff Weight	3 ~ 6 kg (Single-axis)	KV	155 KV
Diameter	30 mm	Product Weight	715 g (without propellers)
Battery	12-14S LiHV	Propeller Material	Carbon fiber reinforced nylon composite
Protection Rating	IPX6	Propeller Diameter*Pitch	24 * 9.0 inches
Maximum Operating Voltage	63 V	Propeller Weight	109.6 g

Applications



Agricultural drones



Industrial application UAVs



Scientific research and training drones

D6 Propulsion System

Defying Extremes, Ultimate Protection

D6 industrial power system utilizes **carbon fiber composite materials and nano-coating tech, achieving an IPX5 protection rating and reliable operation in extreme environments from -30°C to 50°C**. Its proprietary **FOC ESCs enable precise motor control, delivering faster throttle response , reduced noise, and improved power efficiency**. Equipped with **comprehensive failure protection, real-time data logging, and CAN protocol integration, the system supports open-source ecosystems and onboard data storage for performance analysis**. Designed for industrial drone platforms with **30mm arm tubes and a per-axis lift capacity of 2–2.5 kg**, D6 delivers a high-reliability, maintainable, all-in-one brushless power solution for critical applications.

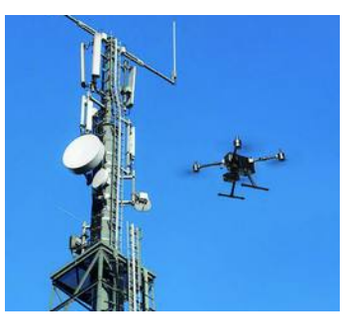


- Innovative FOC for Precision Response
- All-in-one Design for Quick Assembly
- Dual-throttle Featuring Anti-interference
- Power Protection with Superior Heat Dissipation

Specifications

Maximum Thrust	6.5 kg (Single-axis)	Communication Protocol	CAN	
Recommended Takeoff Weight	2 ~ 2.5 kg (Single-axis)	KV	130 KV	
Diameter	30 mm / 25 mm	Product Weight	429 g (without propellers)	
Battery	12S ~ 14S LiPo		Propeller (Straight)	Propeller (Foldable)
Protection Rating	IPX5	Propeller Material	Carbon fiber	Carbon fiber
Power Model	55A FOC	Propeller Diameter*Pitch	22 * 7.8 inches	22 * 9 inches
Maximum Operating Voltage	60 V	Propeller Weight	35.7 g	61.2 g

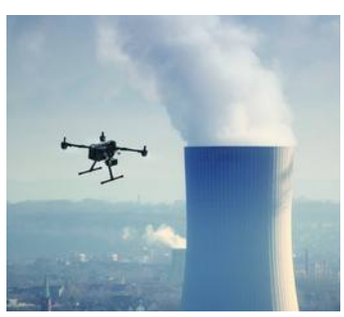
Applications



Infrastructure monitoring



Small payload delivery



Environmental monitoring



Post-disaster assessment

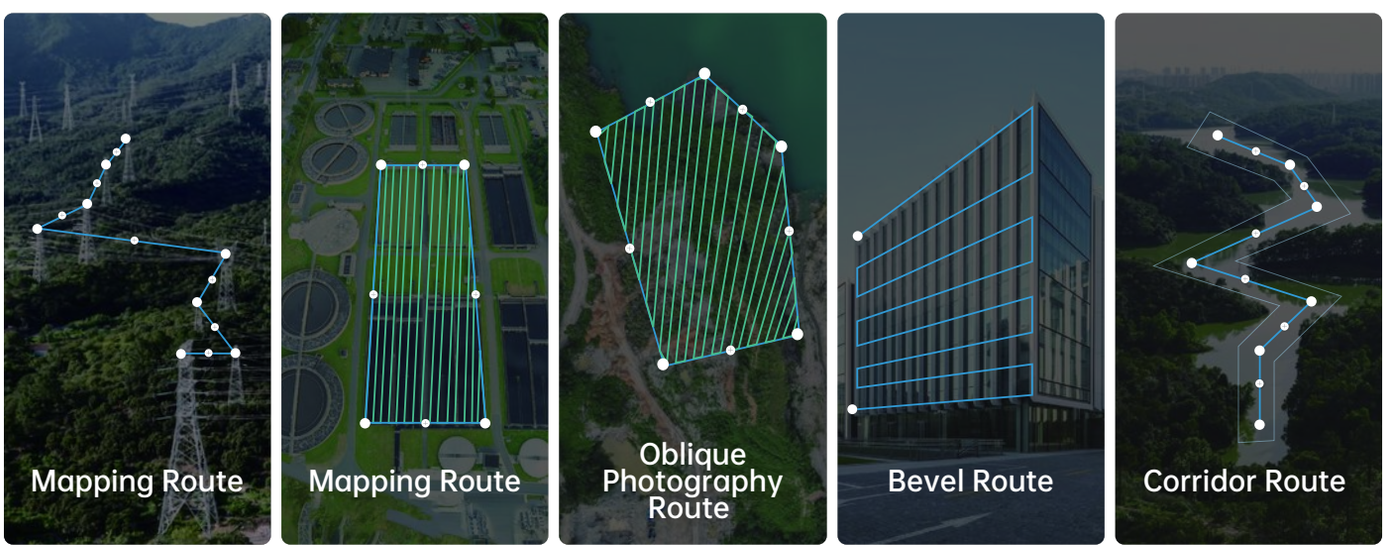
UniGCS Mixed-Source Ground Station Software

Simpler. Smoother. Seamless.

UniCCS is a ground control software compatible with **MAVLink open ecosystem, SIYI, and third-party commercial ecosystems.** It integrates advanced features **including RTK positioning, intelligent route planning, terrain-following flight, AI recognition/tracking, and gimbal control**. Featured a **streamlined UI**, it supports high-precision operations for UAVs, UGVs, and USVs, enhancing operational efficiency and flight safety.

- Dual-mode RTK Integration
- Intelligent Route Planning & Terrain-following
- AI-Powered Target Tracking
- One-Click Flight Control & Resume Mission from Waypoint
- Real-Time Telemetry & Gimbal Control

Flight Route Planning & Navigation



Applications



Multi-Rotor UAV | VTOL | UGV | USV

UniAI Studio AI Training Platform

Code-Free Training, Private Deployment

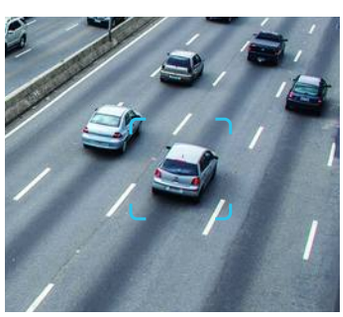
UniAI Studio is a lightweight AI model training platform that supports **on-premises deployment, which only available on request and requires Ubuntu**. The software empowers users to train custom AI models with their own datasets, requiring zero coding expertise. Designed for project-level customization, UniAI Studio enables tailored solutions for applications like **smart inspection and intelligent rescue operations.**

- Private Deployment
- Code-free Training
- Custom Business Model Training
- Enabling Project-concentric Client Growth

Workflow

Raw Material & Data Import → Parameter Configuration → Model Training → Evaluation and Validation → Inference Testing → Model Conversion and Deployment

Typical Scenario Illustration



License Plate Recognition



Pavement Distress Detection



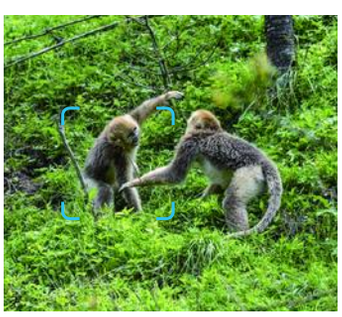
Identification of Structural Defects in Electrical Towers



Water Surface Garbage Recognition



Fire & Smoke Recognition



Wildlife Recognition



Boat Recognition



Crop Pest & Disease Recognition