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HY-5

H<sub>2</sub>



### Technical Specifications – HY-5 Drone

Specification	Parameter
Motor	HY-5
Propellers	24x6.5 inches
ESC (Speed Controller)	60A
Operating Voltage	12S-14S
Dimensions	600×600×350 mm
Frame Weight	3.2 kg
Total Weight (with motors)	Approx. 6.2 kg
Maximum Takeoff Weight	16 kg
Payload Capacity	Up to 5 kg
Flight Time	Up to 30 minutes (depending on payload and battery)
Frame Materials	Carbon fiber, aerospace-grade aluminum
Ingress Protection	IP55 – Dust and water spray resistant
Flight time without payload	25 min
Flight time including payload	55 min

# HY-5



# THE ULTIMATE

## HEAVY-DUTY DRONE

#### Product Specifications:

Motor: Hy-5  
Propeller: 24x8.5 mm  
ESC 80A  
Supply voltage: 12S-14S  
Wheelbase: 1000mm  
Size: 800\*800\*500  
Frame weight: 3.5 kg  
Frame weight (with motors): 6.5 kg  
Maximum take off weight: 20kg  
Payload: 5 kg

Streamlined design:  
Simple and beautiful appearance.  
Surface is UV-treated, scratch-resistant,  
corrosion-resistant, overall dust-proof and  
waterproof, and can be washed directly  
with water.

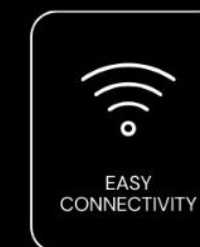
#### FEATURES:



HIGH-RESOLUTION  
CAMERA



LONG-LASTING  
BATTERY



EASY  
CONNECTIVITY



AERODYNAMICS  
DESIGN

CONTACT US FOR MORE INFORMATION:

Osafia, Carmel 1 st, Israel

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# HY-90M



## Technical Specifications – HY-90M

Specification	Parameter
Model	KEEL Mini
Max. Symmetric Wheelbase	906 mm
Material	Carbon fiber composite and Aircraft Aluminum
Size (Props folded, landing gears removed)	777x647x131 mm
Size (Props unfolded, landing gears unfolded)	966x1053x443 mm
Weight (excl. battery)	≈ 3.7 kg
Weight (incl. battery x2 pcs)	≈ 7.7 kg
Max. Loading Capacity	≤ 8 kg
Max. Takeoff Weight	≤ 16 kg
Endurance @ no payload	≤ 70 min
Endurance @ 3 kg payload	≤ 40 min
Endurance @ 5 kg payload	≤ 31 min
Endurance @ 6 kg payload	≤ 25 min
Hovering Accuracy (moderate/no wind)	Vertical ±0.2m; Horizontal ±0.1m
Max. Angular Velocity	150°/s
Max. Pitch Angle	25°
Max. Ascent Speed	3 m/s
Max. Descent Speed	2.5 m/s
Max. Horizontal Speed	27 m/s
Max. Flight Altitude	5500 m
Max. Wind Speed Resistance	16 m/s
Ingress Protection Rating	IP55
Operating Temperature	-20°C ~ +55°C
Battery Capacity	14S, 19200mAh
Battery Weight	2 kg
Battery Size	150x70x75 mm
Notes	Size and weight may vary depending on customization

# HY-90M



## MINI QUADCOPTER MODULAR DRONE

### Modular design

Endurance: 70 MIN

ESC 80A

Supply voltage: 14S 1920 mAh

Wheelbase: 906 mm

Size: 777\*647\*131 mm

Size unfolded: 966\*1053\*443

Frame weight: 3.7 kg

Frame weight (with battery): 7.7 kg

Maximum take off weight: 16 kg

Payload: 8 kg

### Streamlined design:

Simple and beautiful appearance.

Surface is UV-treated, scratch-resistant, corrosion-resistant, overall dust-proof and waterproof, and can be washed directly with water.



### FEATURES:



HIGH-RESOLUTION CAMERA



LONG-LASTING BATTERY



EASY CONNECTIVITY



AERODYNAMICS DESIGN

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HY-20



### Technical Specifications – HY-20 Drone

Specification	Parameter
Motor	Hy-20
Propeller	36 inch
ESC	80A FOC
Supply Voltage	14S
Wheelbase	1462 mm
Opening Size	1954 × 1954 × 663 mm
Folding Size	713 × 713 × 663 mm
Cargo Lifting Capacity	20 kg
Frame Weight	5.14 kg
Maximum Flight Speed	70 km/h
Wind Resistance	Flies in 60 km/h wind
Ingress Protection	IP67 – Fully Waterproof Body
Design	Bright red coating, UV-treated, scratch/corrosion/dust/water-resistant, washable
Folding Mechanism	Cross-folding structure for minimal folded size and easy transport
Features	High-resolution camera, long-lasting battery, easy connectivity, aerodynamic design

# HY-20

# THE ULTIMATE

## HEAVY-DUTY DRONE

### Product Specifications:

Motor: Hy-20  
 Propeller: 36inch  
 ESC 80A FOC  
 Supply voltage: 14S  
 Wheelbase: 1462mm  
 Opening size: 1954\*1954\*663mm  
 Folding size: 713\*713\*663mm  
 cargo lifting: 20kg  
 Frame weight: 5.14kg  
 Maximum flight speed: 70 km/h  
 Flying in a 60 km/h wind  
 Ip-67 (Fully Waterproof Body)

Streamlined design:  
 Bright red coating, simple and beautiful appearance.  
 Surface is UV-treated, scratch-resistant, corrosion-resistant, overall dust-proof and waterproof, and can be washed directly with water.

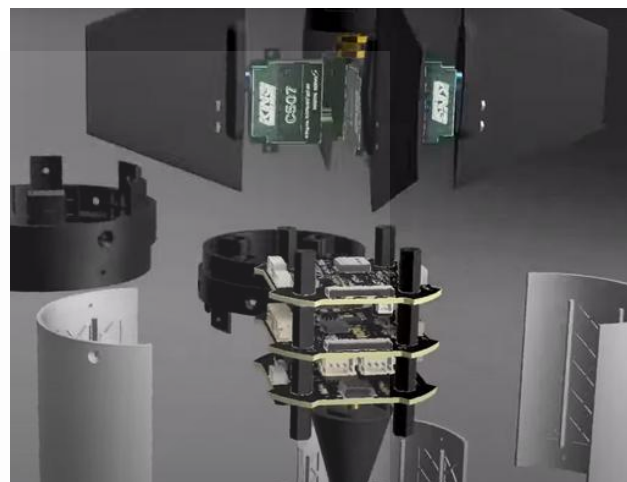
Cross-Folding Structure:  
 The arm adopts cross-folding and staggered folding method, which minimizes the folded size and facilitates transfer and transportation.

### FEATURES:



CONTACT US FOR MORE INFORMATION:

HY-380



### Technical Specifications – HY-380 Drone

Specification	Parameter
Motor	Hy-anti-380
Propeller	7.5/4.61 inch
ESC	35A FOC
Supply Voltage	6S
Wheelbase	330 mm
Opening Size	550×105×330 mm
Cargo Lifting Capacity	500 g
Frame Weight	2400 g
Maximum Flight Speed	380 km/h
Wind Resistance	Flies in 320 km/h wind
Ingress Protection	IP-67 (Fully Waterproof Body)
Recognition Algorithm	YOLO or SSD
Tracking	AI tracking and motor control to center object
Special Features	Repair/stability mechanisms, parameter updates for algorithm
Design	High-resolution camera, long-lasting battery, easy connectivity, aerodynamic

# HY-380



# THE ULTIMATE

## ULTRA-FAST INTERCEPTOR DRONE

Product Specifications:

In the first stage, the drone identifies the

intended object using image recognition Motor: Hy-anti-380 algorithms, such as YOLO (You Only Look Once) Propeller: 7.5/4.61 inch or SSD (Single Shot MultiBox Detector).

ESC 35A FOC Once the object is identified, the system tracks Supply voltage: 6S its location in the frame and activates the drone's

Wheelbase: 330 mm engines to keep it at the center of the image. Opening size: 550\*105\*330mm cargo lifting: 500g In addition, the drone is equipped with repair and Frame weight: 2400g stability mechanisms that ensure smooth and

Maximum flight speed: 380 km/h accurate tracking, even in changing conditions

Flying in a 320 km/h wind and complex environments. The system allows Ip-67 (Fully Waterproof Body) you to update the parameters of the algorithm

according to the specific needs of the task, such as the size, shape, and color of the object.

FEATURES:



HIGH-RESOLUTION  
CAMERA



LONG-LASTING  
BATTERY



EASY  
CONNECTIVITY



AERODYNAMICS  
DESIGN

## HY-V-5



### Technical Specifications – HY-V-5 Drone

Specification	Parameter
Main Material	Carbon fiber
Wingspan	3200 mm
Length	2500 mm
Maximum Body Width	375 mm
Wing Area	26.15 square meters
Empty Weight	25 kg
Maximum Takeoff Weight	72 kg
Maximum Speed	137 km/h (38 m/s)
Cruise Speed	126 km/h (35 m/s)
Stopping Speed	86 km/h (24 m/s)
Maximum Load	5 kg
Fuel Tank Volume	22 liters
Maximum Flight Time	4 to 8 hours
Equipment Compartment Size	920 mm × 340 mm × 350 mm

### Recommended Settings:

- DLE 222 x 1 engine
- T-motor V13 60kv vertical takeoff and landing engine x 8
- T 24S 120A ESC x 8 motor
- Pilot PV-48AH servo x 4
- Pilot PW-28AH servo x 3
- Savox 1250 servo x 1
- 30" x 12" lift aircraft propeller
- Engine T 40 inch carbon fiber VTOL propeller x 4 pairs
- Long glider pilot duct tube x 1
- LED light for navigation x 1



# HY-V-5

## THE ULTIMATE FIXED WING VTOL DRONE

**Product Specifications:**

Main material: carbon fiber  
Wingspan: 3200 mm  
Length: 2500 mm  
Maximum body width: 375 mm  
Wing area: 261.5 square meters  
Empty weight: 25 kg  
Maximum take-off weight: 72 kg  
Maximum speed: 137 km/h (38 m/s)  
Cruise speed: 126 km/h (35 m/s)  
Stopping speed: 86 km/h (24 m/s)  
Maximum load: 5 kg  
Fuel tank volume: 22 liters  
Maximum flight time: 4 to 8 hours  
Equipment compartment size:  
920 mm x 340 mm x 350 mm

**Recommended settings:**

- \* DLE 222 x 1 engine
- \* T-motor V13 60kv vertical takeoff and landing engine x 8
- \* T 24S 120A ESC x 8 motor
- \* Pilot PV-48AH servo x 4
- \* Pilot PW-28AH servo x 3
- \* Savox 1250 servo x 1
- \* 30" x 14" x 1 front propeller
- \* Engine T 40 inch carbon fiber VTOL propeller x 4 pairs
- \* Long glider pitot tube x 1
- \* LED light for navigation x 1

**FEATURES:**

  
HIGH RESOLUTION CAMERA

  
LONG-LASTING BATTERY

  
EASY CONNECTIVITY

  
AERODYNAMIC DESIGN

**CONTACT US FOR MORE INFORMATION:**

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SkyHopper PRO offers a cybersecure bi-directional data link that employs leading wireless technologies. The SkyHopper PRO delivers Non-Line of Sight (N-LOS) communication that supports Point-to-Point, Point-to-Multipoint and Mesh.

SkyHopper PRO offers the Immunity, Cybersecurity and Encryption (ICE) suite. A multi-faceted and multi-layered software that protects the platform, safeguards communication channels, and encrypts the data that is transmitted and collected. The software can detect, prevent, and respond to multiple cyber-attacks in real-time without requiring intervention by an operator.

### Key Features:

- Cybersecure bi-directional, configurable software defined radio (SDR) Data Link
- Up to 5km Line-of-Sight (LOS) range
- Robust N-LOS & Urban operation
- Broadcast, Multicast and Unicast transmission modes
- Control & Telemetry
- Relay operation (Repeater)
- Compact and lightweight solution available as standalone, embedded and OEM versions



### Product Highlights:

- ✓ ICE Cybersecurity Suite
- ✓ Blue UAS and NDAA Compliant
- ✓ Relay system for extended LOS range and overcoming dead spots in urban and industrial areas
- ✓ Operation in multi-platform environments without degradation in throughput or performance
- ✓ MIMO
- ✓ Built-in spectrum analyzer
- ✓ No integration needed for all IP payloads
- ✓ Compatible with a broad range of controllers, mission software, and payloads

Radio & Modem Specifications	
Range	Up to 5km / 3.1 miles per hop (LOS, uninterrupted conditions)
Throughput	Configurable from 0.95-6.4 Mbps For extended throughput, other solutions available
Network Topologies	Point-to-Point, Point-to-Multipoint, Mesh, Relay (Repeater), unlimited viewers Multiple Synchronized Point-to-Point Links
Modes of Operation	Broadcast, Multicast, Unicast
Sensitivity	Max -101dBm
Diversity Support	MIMO 2x2, Tx & Rx Diversity
Transmission Technology	OFDM, TDD
Encryption	128 AES – Standard Package 256 AES - Optional
Frequencies	PRO & PRO Lite: 2.3 GHz-2.7 GHz and 4.9-5.9 GHz PRO Micro: 2.3-2.7 GHz Other frequencies available upon request

Temperature	Celsius	Fahrenheit
Environmental Temperature	-20 – 45° C	-4 – 113° F

Dimensions	mm (H x W x D)	in (H x W x D)
PRO	26 x 54 x 74	1.0 x 2.1 x 2.9
PRO Lite	19 x 54 x 74	0.8 x 2.2 x 2.9
PRO Micro	13.6 x 43 x 60	0.53 x 1.7 x 2.36

Weight	Grams	Ounces
PRO	119	4.2
PRO Lite	99	3.49
PRO Micro	62	2.16

Power	
DC Voltage	PRO & PRO Lite: 7.4-24 V DC PRO Micro: 6-20 V DC
Power Consumption	Up to 13 Watt (peak on start) 12 W Average
Output Power	Up to 1 Watt (Peak Per Antenna) 0.2 Watt Average, 23dBm per Antenna

ICE Cybersecurity Suite	
Cyber Level	<ul style="list-style-type: none"> <li>• Primary (Standard)</li> <li>• Professional (Optional License)</li> </ul>
Multi Facet / Multi-Tier	<ul style="list-style-type: none"> <li>• Prevention of cyber-attacks against CPU's Operating System Integrity and embedded software protection</li> <li>• Interference Avoidance System (IAS) - real-time interference detection, cognitive radio sensing and avoidance</li> <li>• Prevent man in the middle attack</li> <li>• Prevent eavesdropping</li> <li>• Real-time protection against RF link jamming, enables adjacent network operation</li> <li>• Transmission Security (TranSec) - interception resistance</li> <li>• Unique key link identification</li> <li>• Multi-layer data protection, performs cryptographic operations for collected and transmitted data</li> <li>• Safeguard against cloud server attacks</li> </ul>

Interfaces	
Telemetry & Control	Serial RS232
Additional Interfaces	Optional RS485/422, 1pps input/output, GPIO
Ethernet	Ethernet 10/100Mbps Full Ethernet Protocol Transparency (IP, TCP, UDP, RTP, HTTP, VLAN, VPN)
Antenna interface	MMCX (x2)

Configuration & Management	
Unit Monitoring	Web-GUI
Program Interface	API

Product versions available to accommodate FCC, CE & TELEC standards



Tablet Specifications	
Type	10" Toughpad FZ-G2 Panasonic
CPU	Intel Core i7
User Interface	Windows 10 Professional Linux (optional)
Display	10" WXGA 1920 x 1200

Interfaces	
External Interface	USB 2.0 Ethernet Power Input
Human Interface	User Configurable - 2 Joysticks - 6 Buttons (two safe-guards - optional) - 3 Sliders - 2 Toggles (two safe-guards - optional)
GPS Antenna (optional)	SMA
Radio Antennas (optional)	4xSMA (2xSDR, 2xLTE)

Power	
External Power Input	12-19 VDC
Battery	Standard/Extended

Environmental	
Temperature	Operating: -20 to 50°C (-4 to 122°F) Storage: -50 to 85°C (-58 to 185°F)
Humidity	5-95% non-condensing
Sealing	All-weather dust and water resistant
Grade	Ruggedized

Dimensions	Centimeters	Inches
[LxWxH]	24 x 43 x 3.5	9.4 x 16.9 x 1.3

Weight	Kilograms	Pounds
	3.3 kg	6.9 lbs

Radio & Modem	
Network Topologies	Point-to-Point Point-to-Multipoint Relay Mesh (optional)
Modes of Operation	Broadcast Multicast Unicast Multiple users
Waveform	OFDM, TDD
MIMO Configuration	MIMO 2x2, Tx & Rx Diversity
ICE Cybersecurity	According to MCU and Skyhopper product specifications
Cellular	LTE (optional)
Configuration & Management	Web GUI API



**Smart Dual-Frequency  
Image Transmission  
Stable Long-Range  
Vision & Control**

UniRC 7 / 7 Pro  
Communication Range  
**40 KM**

Transmission Bitrate  
**65 Mbps**

Bandwidth  
**20 M**

Latency  
**170 ms**



**Overall**

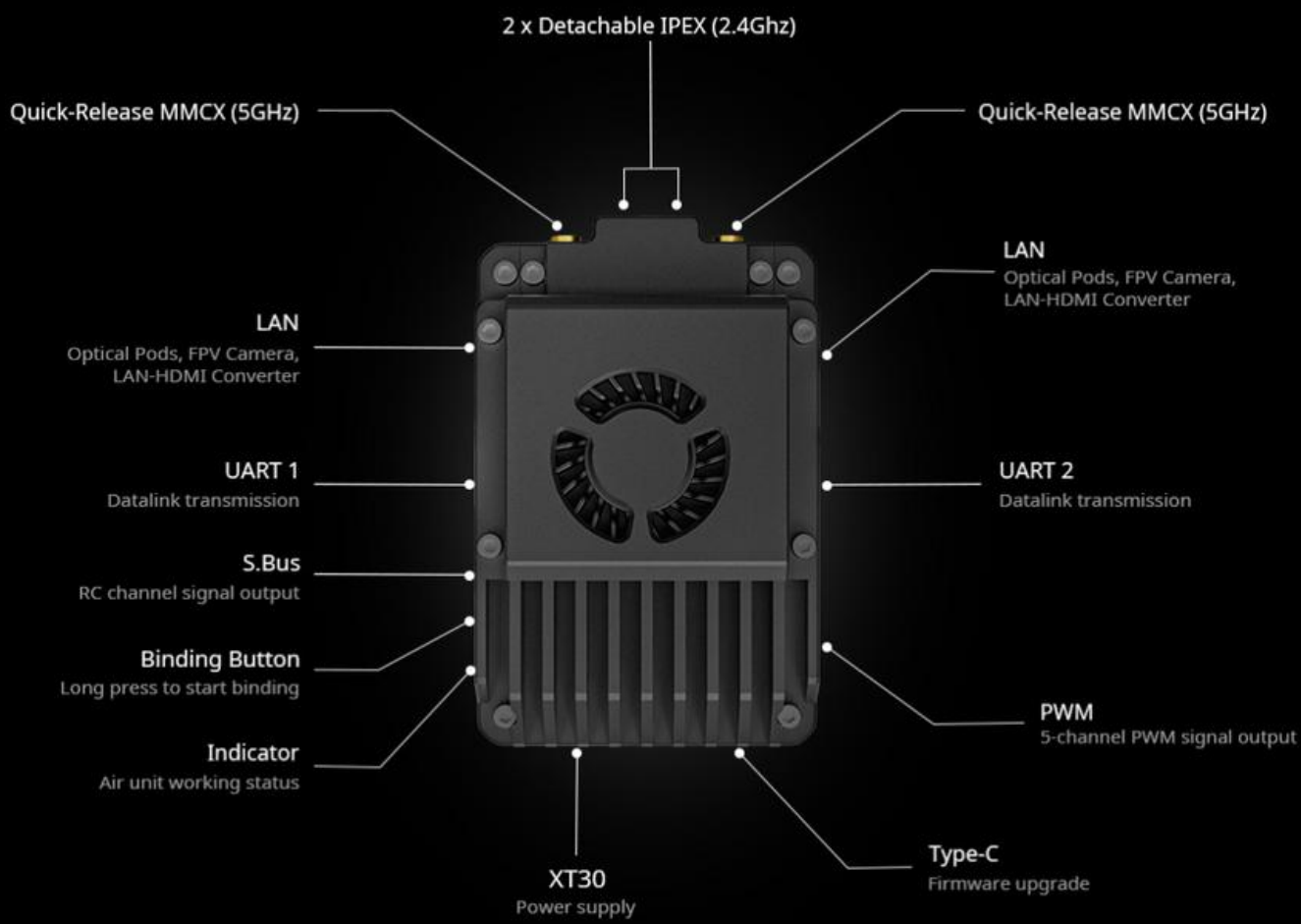
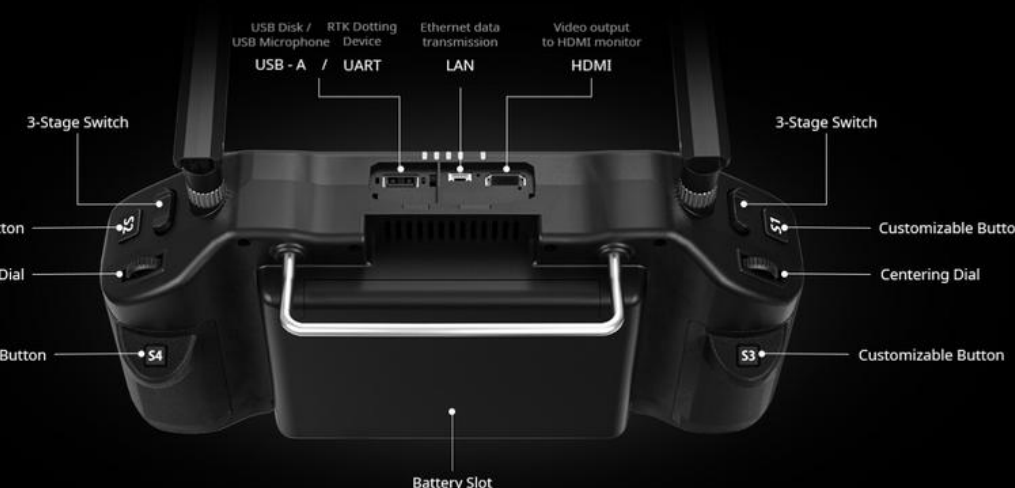
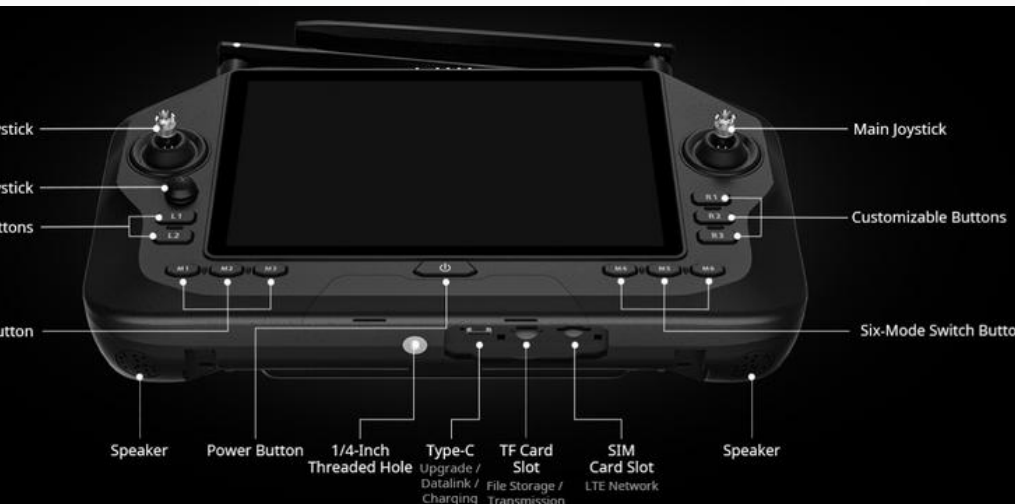
Maximum Effective Signal Range	Agriculture Spraying Altitude (3 to 6 m):3 to 6 km Rural Area Flight Altitude (120 m), Few Obstruction & Medium Interference:10 to 15 km Above Sea Flight Altitude (150 m), No Obstruction & Low Interference:30 to 40 km
Working Frequency	<b>UniRC 7 Pro:</b> 2.400 GHz - 2.476 GHz 5.725 GHz - 5.829 GHz <b>UniRC 7:</b> 2.400 GHz - 2.476 GHz
Physical Channels	10 x Custom Buttons 6 x Flight Mode Buttons 2 x Main Joysticks 1 x Sub Joystick 2 x Dials 2 x 3-Stage Switches

**Air Unit**

RC Signal Output	16-channel S.Bus 5-channel PWM
Interfaces	RC Signal Output: S.Bus (GH1.25 2-Pin) RC Signal Output: PWM 1 to 5 (GH1.25 6-Pin) Datalink: 2 x UART (GH1.25 3-Pin) Video & Data: 2 x LAN (GH1.25 8-Pin) Power Supply: XT30 Firmware Upgrade: Type-C
Antennas	<b>UniRC 7 Pro:</b> 2 x Quick-Release MMCX (5 GHz) 2 x Detachable IPEX (2.4 GHz) <b>UniRC 7:</b> 2 x Detachable IPEX (2.4 GHz)
Working Voltage	7 to 76 V
Dimensions (antenna excluded)	<b>UniRC 7 Pro:</b> L63 * W40 * H27 mm <b>UniRC 7:</b> L57 * W40 * H28 mm
Weight (antenna excluded)	<b>UniRC 7 Pro:</b> 115g <b>UniRC 7:</b> 90g
Average Power Consumption	<b>UniRC 7 Pro:</b> 8W <b>UniRC 7:</b> 6W

Monitor	7-inch 1080p 1600-nit High Definition and High Brightness LCD Touchscreen <b>UniRC 7 Pro:</b> 1920x1200 <b>UniRC 7:</b> 1280x800
Operating System	Android 13
Android Hardware	4GB RAM+ 64GB ROM
Wi-Fi	Wi-Fi 5
Bluetooth	BT 5.0
GNSS	GPS/GLONASS/BeiDou/Galileo/QZSS
Battery Life	<b>UniRC 7 Pro:</b> Approx 8 hours <b>UniRC 7:</b> Approx 11 hours
Battery Capacity	13400mAh
Charging Protocol	PD 30W
Charging Time	Approx 4.5 hours
Datalink/SDK Port	UART/UDP, Bluetooth, Type-C

**UniRC 7 Pro:**  
External Device (Mouse, USB Disk, USB Microphone): USB-A  
Serial Port (for RTK Dotting Module): USB-A  
File Transfer: USB-A  
Video Output: Standard HDMI  
Network Communication: LAN (GH1.25 4-Pin)  
**UniRC 7:**  
Serial Port (for RTK Dotting Module): USB-A  
Charging: Type-C  
Firmware Upgrade: Type-C  
File Transfer: Type-C  
Mobile Network: SIM Card Slot  
External Storage: TF Card Slot / USB-A  
Tripod Mount: 1/4-inch Standard Screw Hole





**Material: Aviation aluminum (with special hardening treatment), stainless steel**

**Excitation method: Continuous rotation and automatic firing**

**Installation method: Quick-release four-point positioning, quick-release installation**

**Transmission method: Electronic signal excitation**

**Linkage mode: Dual linkage of heading and pitch**

**Working voltage: DC 12-28V**

**Observation distance: 300m**

**Ranging distance: 10-500 meters**

**Sitting strength: 5kg**

**Power supply mode: On-board power supply**

**Control mode: Independent remote control PWM signal control for automatic start and stop**

**Control models: Type 95, Type 191, etc**

# HY-100



The whole machine adopts a four-axis eight-rotor layout, pure electric power, with a wheelbase of 2000mm, a maximum load capacity of 30kg, and a maximum battery life of up to 40 minutes. It supports a variety of rich hanging devices. It is simultaneously equipped with industrial-grade flight control systems, RTK differential positioning systems, and millimeter-wave radar obstacle avoidance, endowing it with unparalleled flight performance.

**Product material: Carbon fiber + aviation aluminum**

**Propeller: 43-inch folding propeller**

**Rotor quantity: 4 axes and 8 propellers**

**Unfolded size: 1540\*1540\*760mm**

**Folding size: 870\*830\*760mm**

**The wheelbase of the entire machine is 2000mm**

**Maximum load capacity: 30kg**

**Maximum takeoff weight: 114kg**

**Battery life: 40 minutes (empty load), 16 minutes (full load)**

**Maximum flight speed: 20m/s**

**Fuselage protection grade: ip54**

**Positioning system: RTK**

**Positioning accuracy:  $\pm 0.5$ m**

# HY-35I



## Specification

PERFORMANCE/INDICATORS	INFORMATION
Body length	1.65 m
span	2 m
Maximum take-off weight	35 kg
Maximum payload capacity	10 kg
endurance	5-8 hours (with standard avionics)
Flight range	600-1000 km (depending on fuel load)
Maximum control distance	1 km (manual remote control)
Ground station control range	30 km (with standard data link)
Maximum rate	150 km/h
Cruising speed	100-120 km/h
Ceiling (maximum height)	3000-4000 meters
Wind resistance	12 m/s (force 6 wind)
Operating temperature	-10°C to +45°C
Takeoff/Landing Method	Catapult or runway takeoff
electricity	70CC-125CC gasoline engine



- **Long flight time and high speed** : Aerostrike-10 is capable of long flight times, a maximum speed of 150 km/h, and a range of 600-1000 km depending on fuel load.
- **Fully autonomous flight** : Equipped with advanced flight control and navigation systems, Aerostrike-10 can perform fully autonomous flight missions, including takeoff, flight mode transition, cruise and landing, supporting automatic route planning for up to 1,000 waypoints and providing emergency landing solutions for up to 100 waypoints.
- **Precision Loitering Capability** : As a loitering munition, Aerostrike-10 is well suited for missions that require high-precision targeting and strike capabilities. The platform can hover over the target area, ready to attack at a moment's notice, providing enhanced situational awareness.
- **Cost-effective operations** : The drone requires no bulky launch or recovery equipment, which reduces operating costs. In addition, it does not require additional recovery sensors, making deployment simpler and more efficient.
- **Compact Design** : Foldable wings make the Aerostrike-10 easy to transport and store, enhancing its portability for long distances or bulk transportation.
- **Durable and weather-resistant** : Designed to operate in a variety of environments, the Aerostrike-10 can withstand temperatures from -10°C to +45°C and resist light rain and wind speeds up to 12 m/s (level 6 wind resistance).