

C7 FPV-drone ➤



Accessory



Battery



Remote control



LCD display screen(optional)



Parabolic hook (optional)



FPV glasses (optional)

Performance Indicators of the Device

Rack	7-inch paddle blades
wheelbase	327mm
Take-off load weight	1-3kg
Electric adjustment	50A
image transmission	5.8G(1.2G optional)
power	1.6w
Camera	mini camera
motor	2810 motor
receiver	915MHz/2.4GHz
Maximum takeoff altitude	5000M
endurance	20 ~ 40min
maximum wind resistance	Grade 6
working environment temperature	-10°C- 40°C

Features: FPV heads-up operation, the machine has flexible and stable flight performance.

C10-1 FPV-drone »



Accessory



Battery



Remote control



LCD display screen(optional)



Parabolic hook (optional)



FPV glasses (optional)

Performance Indicators of the Device

Size	362*345mm
wheelbase	450mm
Analog VTX	1.6W
Flight distance	5km
Receiver (can choice)	Etrs915/ 2.4G Receiver; TBS Receiver (Single/double)
Caddx Ratel2 Camera	2.1mm Camera (2 generation)
Camera size	19*19*20mm
MotorKV	800 6S
Three choice one	RunCam Link AIR UNIT polar vista/runcam link DJI O3 AIR UNIT
Battery life	15 min (21700 6S8000mah battery) (No load) 10 min (21700 6S8000mah battery) (Load 2.1kg) 4~5min ((soft pack battery of 5000mah) (Load 4kg)
10inch 3 Three blades Propeller	5.8G longrange high gain antenna

C10-2 FPV-drone »



Accessory



Battery



Remote control



LCD display screen(optional)



Parabolic hook (optional)



FPV glasses (optional)

Performance Indicators of the Device

Single machine weight	850g
Take-off load weight	2-4kg
Rack	10 inch blade
wheelbase	420mm.
Electric adjustment	four-in-one 60A
image transmission	5.8G(1.2G optional)
power	1.6W
Camera	mini camera
motor	3110 motor
receiver	915MHz/2.4GHz
Maximum takeoff altitude	6000M
battery life	20 ~ 40min
maximum wind resistance	Grade 7
working environment temperature	-10°C- 40°C.

Features: FPV heads-up operation, the machine has flexible and stable flight performance.

MACH6-C10 »



Maximum load 6kg



The maximum range is 30km



Maximum flight altitude 5km



Maximum cruising speed 13m/s



Battery life 30-60min



support 5G

Main parameter specification of flight function - Mach6

airplane mode	Manual flight mode, GPS+Beidou mode, route flight mode	Maximum horizontal flight speed	71.1km/h 19m/s
Maximum flight altitude	5km	maximum cruising speed	13m/s
Maximum flight radius	15km	maximum wind speed	18.3m/s
body weight	≤5.5kg(No load, no battery)	body material	carbon fiber
Maximum load capacity	6kg	waterproof level	2mm/min
Maximum Range	30km	Operating temperature	-10°C ~50°C
High precision positioning	When RTK is working: 1cm+1ppm (horizontal); 1.5cm+1ppm (vertical)		
Maximum endurance time (no load)	<p>≥45min (DB100-standard 2 pieces of batteries) ≥60min (with DB100H-special 2 pieces of batteries) ≥30min (with DB100A-standard 6 small batteries)</p>		

C13 FPV-drone »



Performance Indicators of the Device

Unfolded Size	46.5*40*7.2cm
Wheel base	61cm
Flight speed	120km/h-140km/h
Flight control	F405 Flight control, 80A Electric control (8S)
Image Transmission	Image transmission 1.2G or 5.8G
Receiver	ELRS 915
electrical machinery	4214 440KV
accessory	leather belt 2*35cm
camera	720P 1500TVL 165° wide angle
camera	optional night vision camera
thermal imaging camera	384PX 256PX
net weight of drone	1.5kg

COLONY SYSTEM



F1-C Plus flight platform

Overall size	unfold:350*327*196mm fold:110*434*196mm
Maximum take-off weight	4.6kg
Empty weight (including battery)	2.3kg
Maximum load	2.3kg
Maximum ascent/descent speed	rise: 10m/s descend: 2m/s
Maximum endurance (no load, hovering)	45min
Maximum level speed	30m/s
Maximum communication distance	6km
Maximum flying altitude	5200m
Communication frequency	1430-1444MHz
Wind resistance	Lv. 6
Operating temperature	-10°C~+55°C

Earth station

screen size	8.4 inches
Battery capacity	75Wh(19500mAh)
Memory assembly	16GB+512GB



Gondola

Resolution	1920*1080
camera shot	optical focus
tracking function	support

Detection range people:100m car:300m
Recognition distance people:20m car:100m



Communication base station

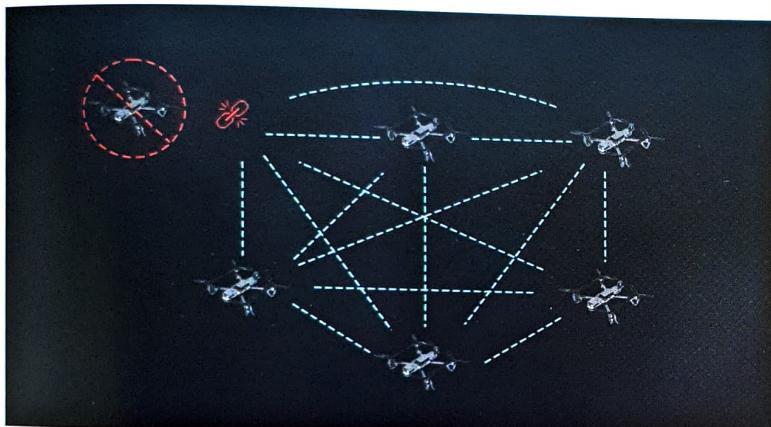
Communication distance	6km
Communication frequency	1430-1444mhz



SYSTEM FUNCTIONS AND ADVANTAGES

- One person one station can achieve multi-machine control

Support a variety of formation Settings, can be split and combined into different formations in real time to perform tasks; In attack mode, there is no need to plan a specific path, and the attack command can be implemented with one click.



- Target AI intelligent recognition and following

AI intelligence blessing, support target self-identification and continuous tracking, to achieve visual guidance function.



- Strong resistance without center

The swarm has no central node, the single machine is damaged, and other machines automatically replace it, and the overall formation can be maintained and performed.



- Supports importing coordinates of other devices

Support the coordinate information of radar, other drones or equipment into the swarm to improve the ability to cooperate.

Optical fiber image data module



Fiber optic figure module adopts fiber optic as the transmission medium, fast transmission speed, strong stability, can meet the demand of large data transmission, not affected by electromagnetic interference, prevent eavesdropping
It is not affected by electromagnetic interference and prevents eavesdropping, and can support wired signal transmission of up to 20km.



anti-interference



stable and reliable



0~20km long distance communication



Ignore terrain obstructions

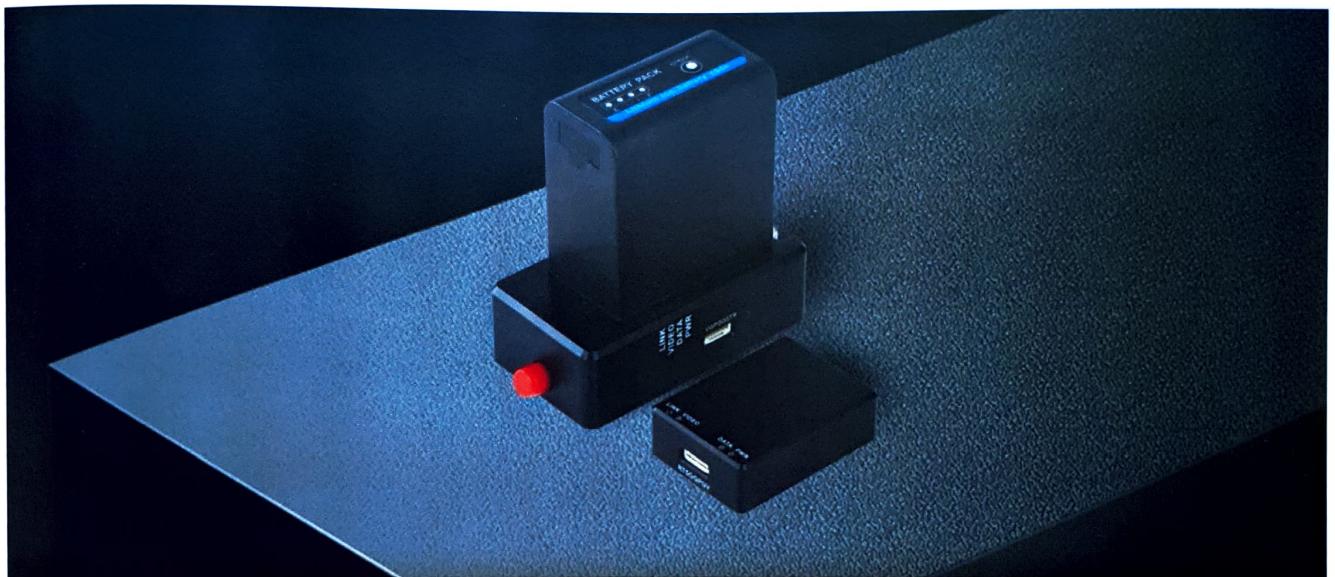


anti-eavesdropping



High speed transmission of big data

Lightly loaded with hardcore gear



0~1Mbps
Speed

Single-mode fiber
0~20km
Transmission distance

TTL/S.BUS
Data format

GH1.25
Data interface

Ultra-light on-board SKY Sky end fiber optic disc



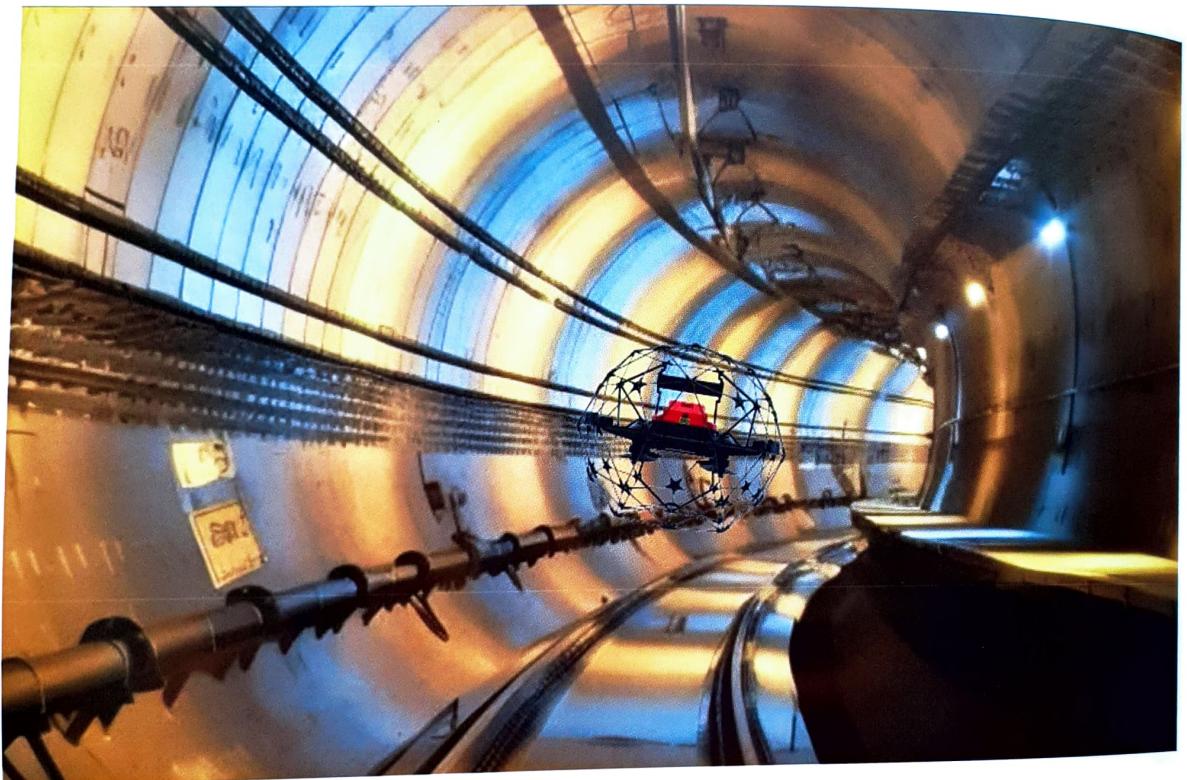
1km fiber consolidation weighs 340g, 3km fiber consolidation weighs 800g, 5km fiber consolidation weighs 1250g.

Pipe crawling robot communication



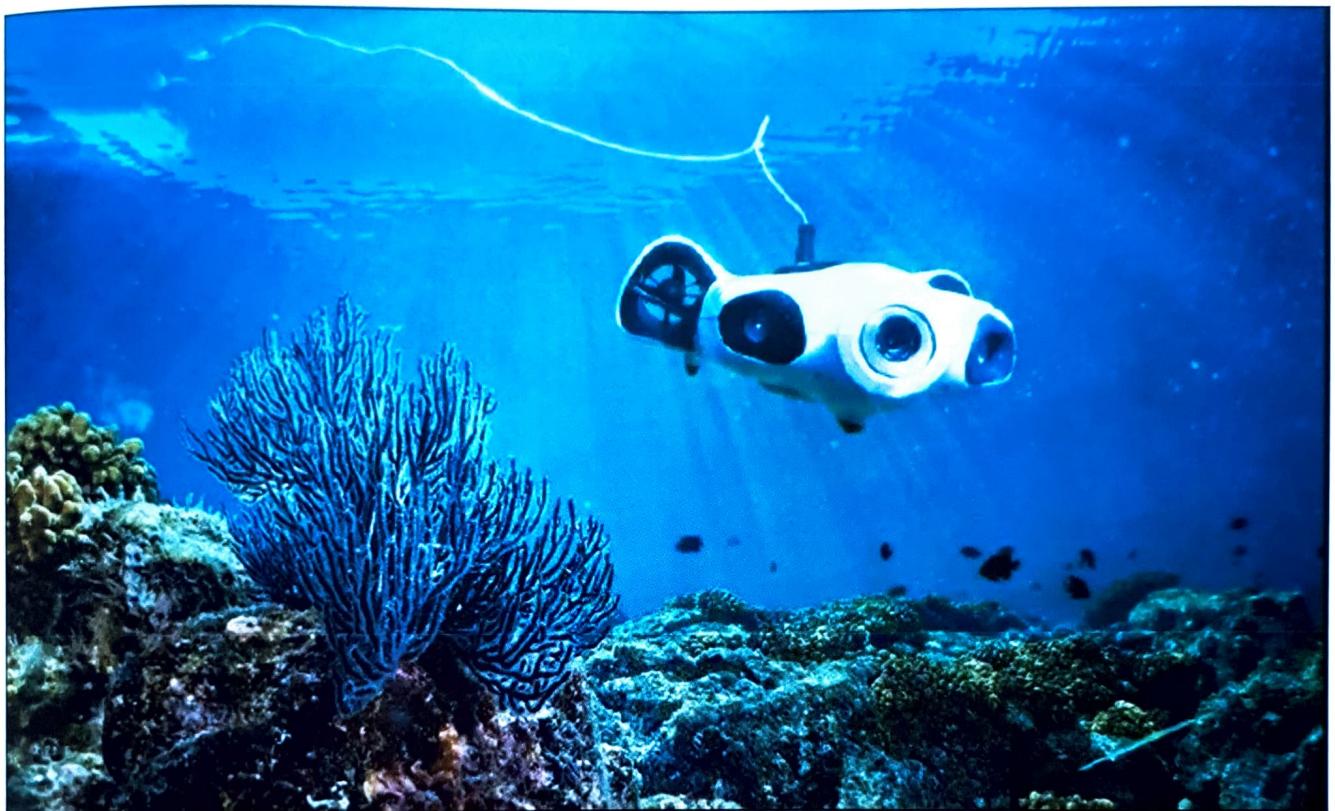
The complexity of the city's official website, short-wave communication is difficult to cover all the scenes, the use of fiber-optic communication, high-speed and stable data transmission, anti-jamming ability, low loss of long-distance communication, lightweight and easy to carry, to improve the efficiency and safety of pipeline maintenance.

Indoor inspection machine



With the help of wired fiber-optic communication, the indoor inspection drone breaks through the short-wave transmission limit, ignores the obstacles of the underground environment, and realizes safe and stable mass data communication under the complex terrain. safe and stable mass data communication under the terrain.

Underwater Robotics Newsletter



Fiber optic communication has shown significant advantages in underwater robotics applications, realizing high-speed and stable data communication through optical signal transmission, ignoring interference in the underwater environment, and providing long-distance and high-capacity communication capability for underwater robots.

Fiber optic communication has shown significant advantages in underwater robotics applications, realizing high-speed and stable data communication through optical signal transmission, ignoring interference from the underwater environment, and providing underwater robots with long-distance and high-capacity communication capabilities.

Remote monitoring



Fiber optic remote monitoring is the use of fiber optic high-speed, high-bandwidth characteristics, to achieve long-distance, high-definition, stable video transmission and monitoring. It has the advantages of strong anti-interference ability, clear picture, etc. It is suitable for all kinds of important places to monitor the needs of It is suitable for the monitoring needs of various important places to ensure safety.

FPV Traverser Communication



Wired fiber optic communication technology has successfully solved the problem of short-wave UAV communication under strong interference environment, and it can achieve long-distance wired communication of 5km or 10km, which ensures the stability and safety of communication.

Technical parameter

- Optical fiber interface: Fibre Channel interface
- Optical fiber type: single-mode - Single-fiber
- Product interface :GH1.25
- Data format :TTL/ S.US
- Video format :NTSC/PAL/SECAM
- Data direction: bidirectional
- Speed :0 to 1Mbps
- Transmission distance: single-mode fiber 0-20km
- Wavelength single mode :1310(9/125μm)+1550

Sky end product parameters

Power supply	9v~24v≤1A	battery	li-ion7.4V6600mAh
Shell material	Aluminium alloy	Battery weight	335g
Body size	74.5mm*38mm*19mm	Shell material	Aluminium alloy
Fuselage weight	54±2g	Body size	124mm*57.5mm*37.5mm

Ground end product parameters

Supports more fiber lengths



1km light disc

size: 79.6mm (diameter) *152mm
Shell material: carbon fiber
Specification: 0.5mm
Weight: 340g (1km)
Outlet: None



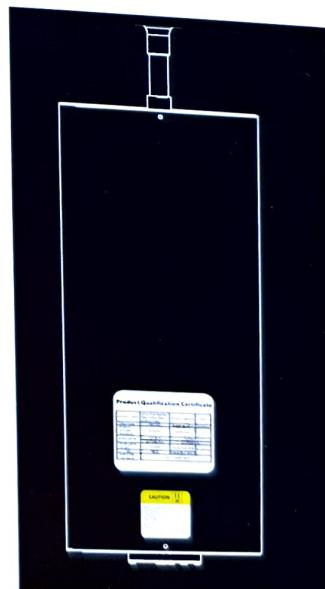
2/3km Light disc

size: 101.6mm (diameter) Ruler *274mm
Shell material: acrylonitrile-styrene-butadiene copolymer
fiber specification: 0.5mm
Weight: 600g (2km)/800g(3km)
Outlet nozzle: aluminum alloy nozzle, carbon tube 5cm



5km light disc

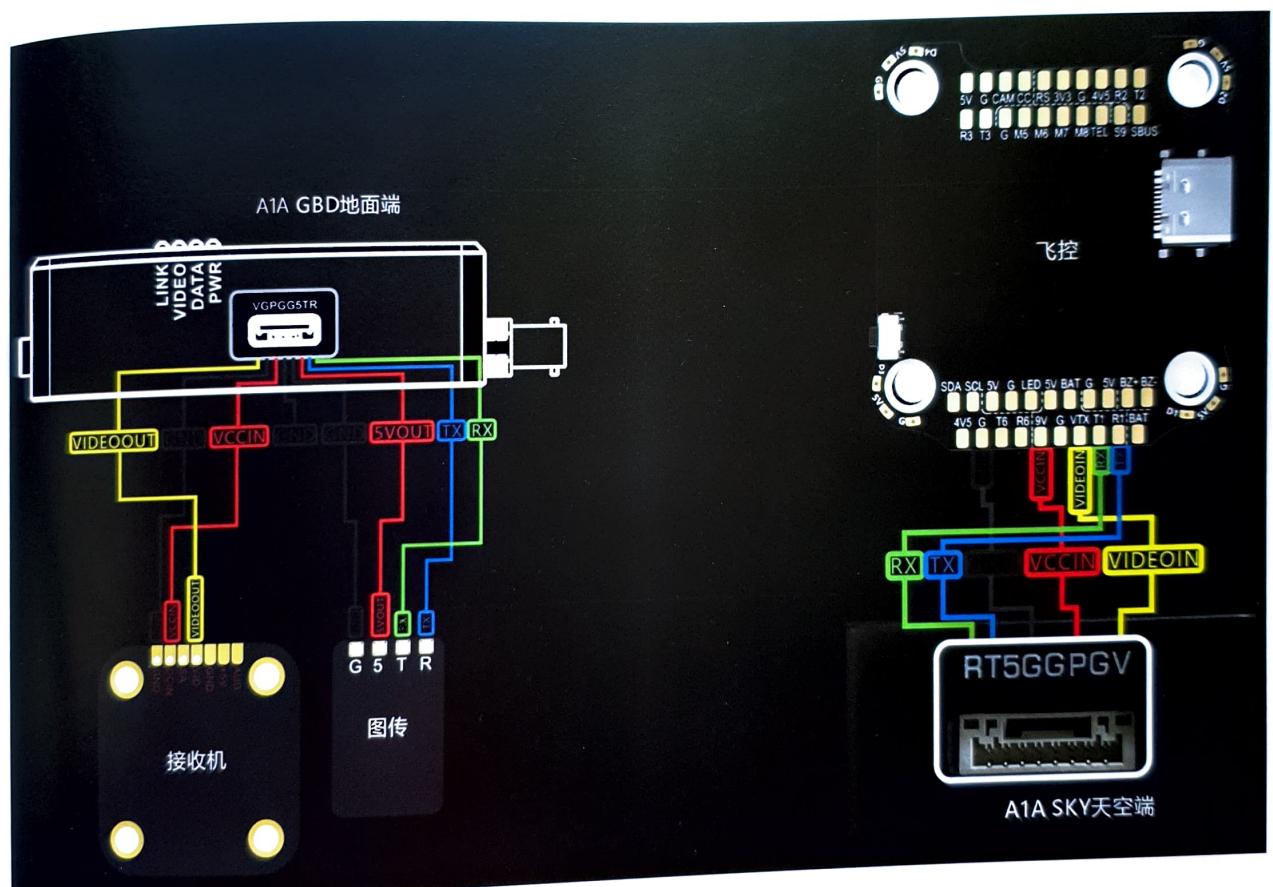
size :101.6mm (diameter) *351mm
Shell material: acrylonitrile-styrene-butadiene copolymer
Fiber specification: 0.5mm
Weight: 1250g(5km)
Outlet nozzle: aluminum alloy nozzle, carbon tube 5cm



10km light dial ruler

Inch: 130mm (diameter) *404mm
Shell material: carbon
fiber Specification: 0.5mm
Weight: 2450g(10km)
Outlet nozzle: aluminum alloy nozzle, carbon tube 5cm

Ground end wireless connection mode 1



A1A GBD ground end and receiver, diagram transmission connection diagram

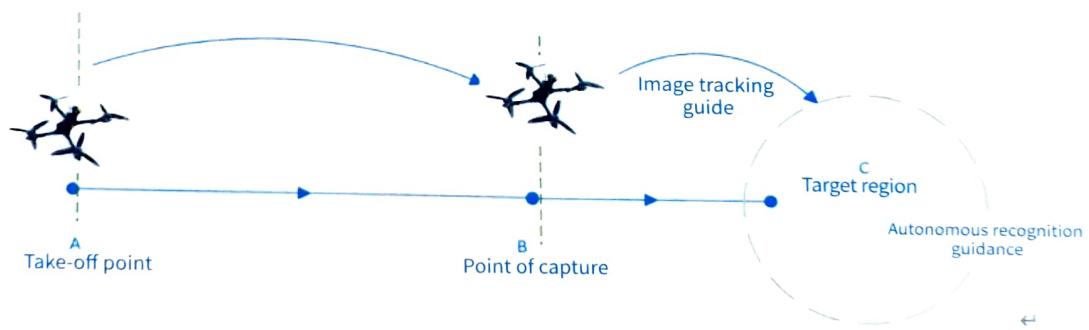
A1A SKY Sky terminal and flight control connection diagram

AI-FPV ➤



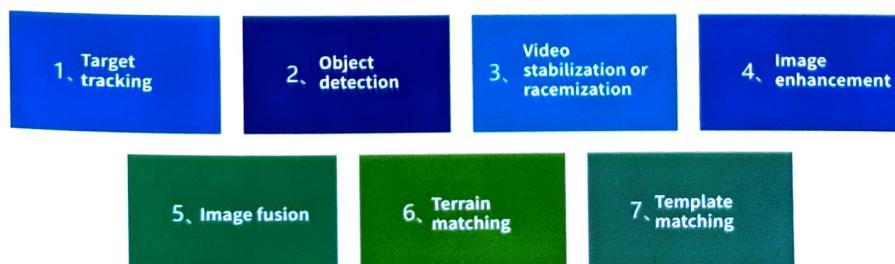
AI-FPV Working principle

The on-board chip can calculate the position of the target in the current scene in real time, output control commands to the UAV control system through the target tracking algorithm, and automatically control the UAV to strike the designated target even in the environment of electronic interference.



Algorithm advantage - algorithm accumulation

The team has been committed to the research of image processing and artificial intelligence algorithms on end-to-side AI, and is at the domestic leading level in airborne target tracking, target recognition technology and application.



AI-FPV edition

Single-axis PTZ version



Version without PTZ version



AI-FPV disposition



Frame: Ten inch thick frame

Motor: 3115 900kv

Illustration: 4.9 5.8 4W with VTX function

Control: 915

Flying Tower: F405

Software: BETAFLIGHT platform adjustable

Maximum load: 3.5KG

Automatic attack speed :80 km/h

Maximum automatic locking eye distance: 200M

Load 3KG flight duration :8000 mah battery flight time of 10 minutes

Load 3KG flight time: 15min flight time with

AR-1 Quadruped robot »



Ontology platform



Fire strike type

Lightweight human-machine hybrid quadruped robot is an intelligent robot system developed based on the principle of bionic mechanics. It has strong ability of discrete terrain passage, complex terrain escape, gully cliff jumping, etc., and can walk on most terrain. The lightweight man-machine hybrid quadruped robot has high flexibility in complex tasks, and can replace different module task loads to form a variety of combat equipment such as fire strike and advance reconnaissance.

AR-2 » Agile robot with two wheels and feet



low-cost self-explosion
dual-wheel-foot agile robot



Multi-terrain reconnaissance
dual-wheel-foot agile robot

Low-cost self-destructive two-wheeled foot agile robot with strong terrain adaptability, in the attack can be through the cluster rapid mobility and drilling into the chassis of armored vehicles underneath the high-value targets to attack, at a fraction of the cost of destroying the weakest part of the armored vehicles, in the defense can also be used as a “long-legged” landmines on the focus of the road and the region for the flexible sealing and control, the formation of real-time deployment adjustments and high battlefield survivability “smart” minefield to the enemy mechanized forces effectively delayed. The formation of real-time adjustments to the deployment and high battlefield survivability of the “intelligent” minefield, the enemy mechanized forces effectively delayed. Currently, ground explosive equipment and small wheeled robots have a more mature technological basis, through a combination of innovation can be cultivated in a relatively short period of time new quality equipment.

AR-3 » Nuclear, biological and chemical reconnaissance robot



After the occurrence of nuclear, biological and chemical accidents, the nuclear, biological and chemical reconnaissance robot, under the remote control of the operator, quickly enters the area to be tested to carry out real-time reconnaissance of the nuclear, biological and chemical dose level, and wirelessly transmits the video data back to the control terminal for real-time display. It consists of lightweight all-terrain ground, robotic arm, irradiation-resistant control module, irradiation-resistant camera, and nuclear, biological and chemical reconnaissance equipment (e.g., γ -dose rate meter, nuclide identification module, alpha aerosol module, neutron dose rate meter, biochemical detection module). It is mainly used for environmental reconnaissance and nuclear, biological and chemical data monitoring in areas inaccessible to personnel under the conditions of battlefields and nuclear and chemical accidents.

AR-4 » Individual handling hand push platform



“War Horse” is an all-terrain, power-driven transportation platform, mainly for troops fighting on foot (especially in urban combat in narrow alleys and other large transport equipment is not easy to pass through the region) typical scenarios, to solve the last kilometer of logistical support difficult transportation problems.

It is applied to complex environmental mobility tasks and logistic support, such as camping base material transportation, battlefield material supply, wounded and sick transfer, special tools carrying transportation and other scenarios, with a large load, long endurance, all-terrain adaptation, tactical mute, etc., with a strong obstacle-crossing ability, and it can directly go over the standard staircase.