INTERNATIONAL ARMOUR™

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FIREFLY 380
VTOL DRONE

FF-380 UAV platform is an electric long-haul composite wing vertical take-off and landing drone independently developed by our company.

The overall layout of the composite wing with fixed wing and four-rotor is used to solve the vertical take-off and landing of the fixed-wing UAV in a simple and reliable way.

The difficulty of the fixed-wing UAV has the characteristics of long flight time, high speed, long distance and the vertical take-off and landing of the rotor less drone.

The vertical take-off and landing mode greatly enhances the environmental adaptability of the drone platform.

The man-machine platform can operate smoothly in complex terrain and densely populated areas such as mountains, hills and jungles, greatly expanding the scope of application of drones, and is an ideal choice for industrial-grade drones.

The UAV platform is equipped with industrial-grade vertical take-off and landing fixed-wing flight control and navigation system, as well as professional aerial survey and inspection ground station software.

It can ensure that the drone can fly autonomously throughout the process, without operator intervention to complete the autonomous take-off and flight status.

In the flight phase of conversion, autonomous cruise, and autonomous landing, it also supports automatic route planning for 1000 waypoints and emergency standby plan for 100 waypoints.

The drone platform has the following features and advantages:

a) **Practical and efficient:** it has the characteristics of fixed-wing UAV's long flight time, fast speed, long distance and large load;

b) **Vertical take-off and landing:** with the take-off and landing mode of the rotor-less drone, greatly reducing the requirements for landing and landing and airspace;

c) **Simple operation:** integrated special flight control and navigation system, full autonomous flight, operators only need to send flight plans, no professional training and operational experience;

e) **Compact system**: no complicated auxiliary equipment, simple transportation, deployment, maintenance and withdrawal.
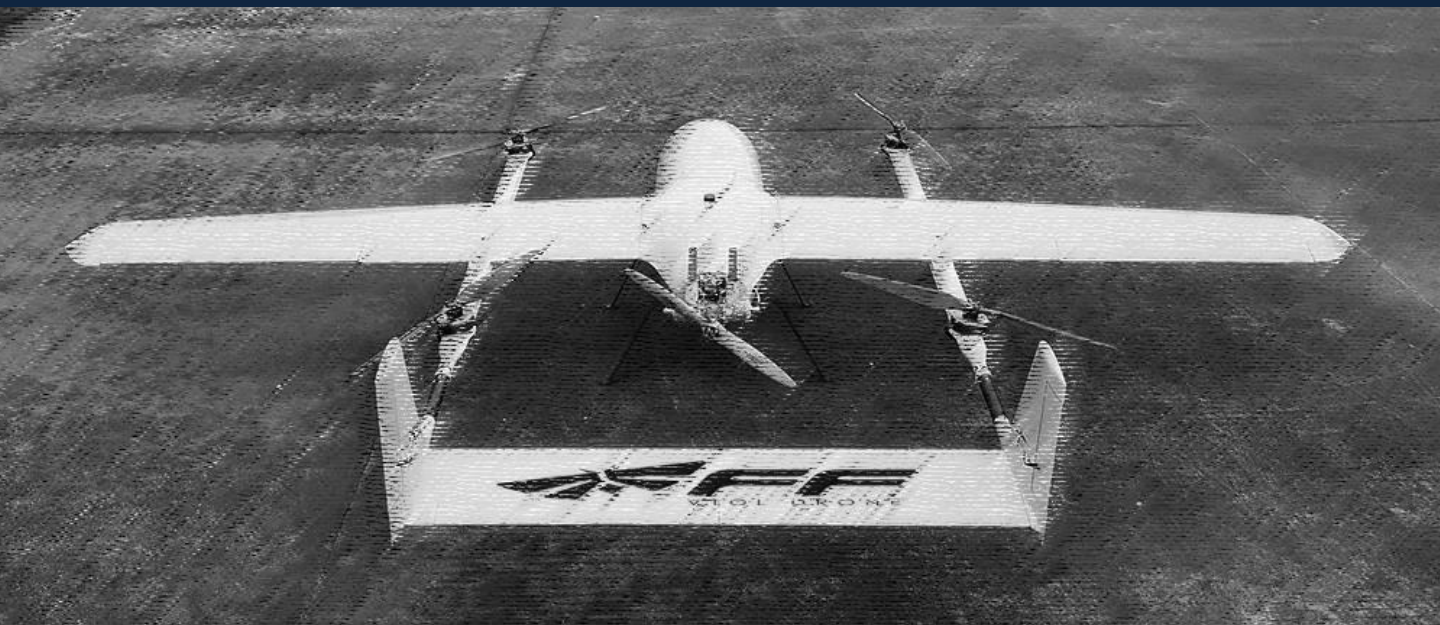
Specification

Body length: 2.5m
Wingspan: 3.8m
Maximum takeoff weight: 50kg
Maximum payload: 15kg
Life time: 2h@15kg payload, 4h@10kg payload
Flying radius: 200-400km (depending on the amount of oil)
Maximum control distance: Remote control (manual control): 1km
Ground station control (depending on the distance of the digital transmission): 30km standard
Maximum speed: 130km/h
Cruising speed: 100-120km/h
Maximum oil load: 12L
Lift limit: 4000m
Maximum wind resistance: 12m/s (6 wind)
Use environment: -10 °C +45 °C; anti-light rain
Climb/lower power battery: 4*14000mAh-6S lithium battery
Take-off and landing mode: vertical takeoff and landing
Shipping size: 1.6*0.7*0.6m (length * width * height)

- High Durability
- Long endurance
- Full composite material, Honeycomb structure
- Industry Standard Tough Structure
- Dual battery power, more safe
- Compatible with full-featured PC ground station, and open source autopilot system
- Easy for assemble in the field

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FS 18-Channel 2.4GHz Computer Radio System

The FlySky Paladin PL18 Remote Control Radio is designed for precision flying. It was engineered to be intuitive with a powerful touch screen setup. The Paladin comes with 18 channels and AFHDS 3 protocol. There are six model types to choose from Airplane, Helicopter, Glider, Delta Wing, Multicopter and Engineering Vehicles making for a truly versatile Radio. The package also comes with two receivers, the FTr10 and FTr16s.

AFHDS 3 is a third-generation RF technology that was developed by FlySky with the PL18 in mind. It is designed to have low latency (5ms), a stable protocol for use at longer ranges (up to 3.6km), even in the presence of interference. The PL18 is designed to be compatible with many detachable RF modules to make the Paladin extremely flexible. There are dual omnidirectional antennas to ensure you have the best, stable signal even at longer ranges.

Setup is simple with an easy to understand touch screen interface combined with FlySkyOS. The screen is a 320x480 capacitive color touch screen. There are multiple switches (rotary, slide, 2-position and 3-position) that you can configure just the way you want and with 18 channels you should be able to set up any configuration you need.

The Paladin comes with adjustable, high-precision Hall gimbals that can be easily set up for the four different modes of operation. Plus, you can choose between self-return or non-self returning sticks. Both gimbals have adjustable spring tension, as well as adjustment for dampening and max/min movement angle..

FS 18-Channel 2.4GHz Computer Radio System

Features:
• AFHDS 3 Protocol
• FTr10 and FTr16s receivers
• Metal Hall Gimbals
• 18 channels
• Six different model (Airplane, Helicopter, Glider, Delta Wing, Multi Copter)
• 4300mAh battery (built-in), over 8 hours between charges
• Wireless charging, USB charging
• Voice/vibration prompts
• USB simulator (For use with flight simulation software)
• Copy and paste model data
• Customizable switches
• Trainer function
• Stable signal even with over 40 transmitters being used at the same time

Specs Paladin PL18:
Channels: 18
Model Type: fixed-wing, helicopter, crossing machine, multi-axis, engineering vehicle
RF: 2.4GHz
RF Power: < 20 dBm
2.4GHz Protocol: AFHDS3
Distance: >3km
Channel Resolution: 4096
Battery: 1S (3.7V) 4300mAh (built-in)
Charging Interface: Micro USB / wireless charging
Charging Time: 6h@5V/7h@2A (wireless charging)
Lifetime: > 8h
Low Voltage Warning: <3.7V
Antenna Type: Dual antenna
Display: HVGA 3.5" TFT, 320x480
Language: Chinese and English
Simulator: USB Simulator
Data Interface: USB, Non-standard interface (USART), PHJACK (PPM)
Temperature Range: -10 ° C - + 60 ° C
Humidity Range: 20%-95%
Online Update: support
Dimensions: 214x86.5x192 mm
Weight: 946g
Certification: CE, FCC ID: N4ZFT1800, RCM

Specs FTR10:
PWM channels: 10
RF: 2.4GHz
Protocol: AFHDS 3
Distance: >3500m
Antenna type: 103mm x 2
Power input: 3.5v-18V
RSSI: Yes
Data port: i-BUS/S-BUS/PPM/PWM/UART
Temperature: -15℃—+60℃
Humidity: 20%-95%
Update online: Yes
Size: 52x28x22mm
Weight: 22g
Certificate: CE,   FCC ID: N4ZFTR1000

Specs FTr16S:
Channels: 16
Model type: Racing Drone
Data port: i-BUS/S-BUS/PPM
PWM channels: NO
RF: 2.4GHz
Protocol: AFHDS 3
Distance: 3500m
Antenna type: Dual antenna
Power input: 3.5v-8.4V
RSSI: Yes
Temperature: -15℃—+60℃
Humidity: 20%-95%
Update online: Yes
Size: 20x12x3.1mm
Weight: 2g
Certificate: CE,   FCC ID：N4ZFTR16S00

OPTIONAL

8-Channel 2.4GHz Computer Radio System
(standard/included)

When you consider all of the functions that the 8J offers, along with its price point, you'll realize that this is one amazing system.
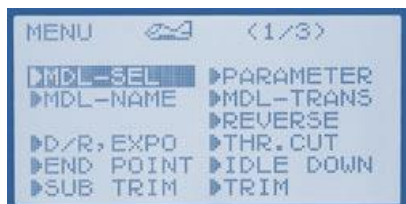
Some of the awesome features you'll enjoy on the 8J include frequency-hopping security, the ability to transfer model data wirelessly between 8J transmitters, 6 programmable mixes (2 with curves), 5 Heli flight conditions, 3-axis gyro support, 5-point pitch/throttle curves and a receiver with a full-range, dual internal antenna that can handle any application you can think of.

All on-screen terms are spelled out on a backlit LCD screen. And everything is easily accessed and programmed with a jog dial and three buttons.
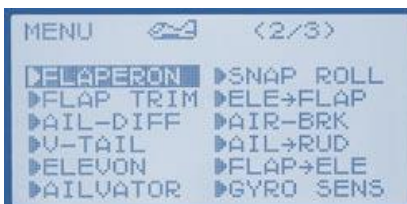
Precision. Programming ease.

Versatility. It's all here with the 8J, and at a price that makes it one of the most incredible values in radio control.

8-Channel 2.4GHz Computer Radio System
(standard/included)
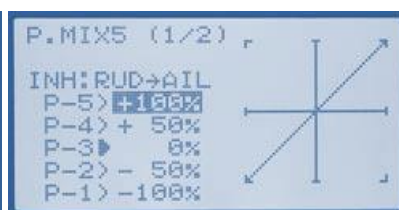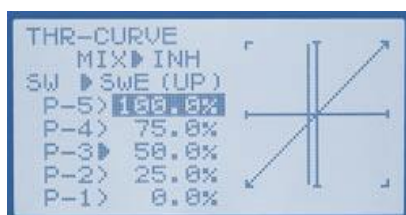
MENU ☁ (1/3)	MENU ☁ (2/3)	MENU ☁ (3/3)
▶MDL-SEL ▶PARAMETER ▶MDL-NAME MDL-TRANS ▶REVERSE ▶D/R,EXPO ▶THR.CUT ▶END POINT ▶IDLE DOWN ▶SUB TRIM ▶TRIM	▶FLAPERON ▶SNAP ROLL ▶FLAP TRIM ▶ELE→FLAP ▶AIL-DIFF ▶AIR-BRK ▶V-TAIL ▶AIL→RUD ▶ELEVON ▶FLAP→ELE ▶AILVATOR ▶GYRO SENS	▶P.MIX1-6 ▶AUX-CHAN ▶SERVO ▶THR-CURVE ▶TIMER ▶PIT-CURVE ▶TRAINER ▶THR DELAY ▶THR→NEEDL ▶FAIL SAFE
Main Menu 1	*Main Menu 2*	*Main Menu 3*

MDL-TRANS MODE▶TRANSFER ▶Execute No: 1 MODEL-0001 →→→→	AUX-CHAN CH5▶ SWG CH6▶ VR CH7▶ DT5 CH8▶ DT6	P.MIX5 (1/2) INH:RUD→AIL P-5>+100% P-4>+ 50% P-3▶ 0% P-2>- 50% P-1>-100%
Wireless Data Transfer between 8J transmitters	*Auxiliary Channel Switch Assignment*	*P-Mix (Curve Menu)*

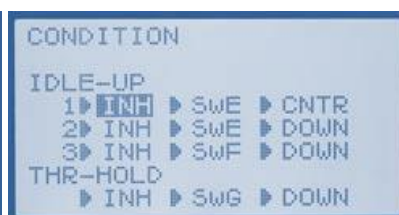| THR-CURVE MIX▶ INH SW ▶ SWE (UP) P-5>100.0% P-4> 75.0% P-3▶ 50.0% P-2> 25.0% P-1> 0.0%	PIT-CURVE MIX▶ --- CND▶ NOR(NOR) P-5>+100% P-4>+ 50% P-3▶ 0% P-2>- 50% P-1>-100%	CONDITION IDLE-UP 1▶ INH ▶ SWE ▶ CNTR 2▶ INH ▶ SWE ▶ DOWN 3▶ INH ▶ SWF ▶ DOWN THR-HOLD ▶ INH ▶ SWG ▶ DOWN
Throttle Curve (Airplane)	*Pitch Curve (Heli)*	*Flight Condition Menu (Heli)*

Transmitter Specifications:

Type: 2-stick, 8-channel S-FHSS/FHSS selectable
Current Drain: 140mA

Receiver Specifications:

R2008SB 2.4GHz S-FHSS 8-Channel Receiver
Type: Full-range flight receiver
Modes: S-FHSS or FHSS
Features: High-voltage operation, frequency-hopping Spread Spectrum design, Dual Antenna Diversity, S.Bus compatibility
Voltage Input: 4.8V-7.4V battery or regulated output from ESC
Compatible Batteries: NiCd, NiMH, LiPo, LiIon or LiFe
Dimensions: 0.98 x 1.69 x 0.55 in (24.9 x 42.8 x 14.0 mm)
Weight: 0.34 oz (9.5 g)

8-Channel 2.4GHz Computer Radio System
(standard/included)

System features

- Futaba S-FHSS 2.4GHz security (also compatible with FHSS)
- Airplane and Helicopter modes
- 20 model memory
- S.Bus-compatible S-FHSS receiver
- Wireless transfer of model data to and from other 8J transmitters
- 10-character model and user naming
- Large (128 x 64 dot) backlit LCD display
- 8 channels (one variable knob, five 2-position switches, two 3-position switches, one momentary switch, two digital levers)
- Quick and easy programming using a jog dial and three buttons
- End point adjustment
- Dual Rate/Expo (any switch selectable)
- Servo reversing
- Sub Trim on all 8 channels
- Digital Trims
- Trim Step adjustability
- ATL (Adjustable Travel Limit)
- Failsafe on all 8 channels
- Trainer mode
- Throttle cut
- Two Count-up/Count-down timers plus integrated timer
- Model timer
- Range check mode
- Servo Monitor/Test
- Auxiliary Channel switch/level assignability

Airplane Features

- Six programmable mixes (two with curves)
- Flaperons with differential rate
- Flap Trim
- Differential Ailerons
- V-tail mixing
- Elevon
- Ailevator
- Snap Roll
- Elevator/Flap mixing
- Airbrake/Landing
- Aileron/Rudder mixing
- Flap/Elevator mixing
- Gyro sensitivity
- Throttle curve (5 points)
- Pitch curve (5 points)
- Throttle delay
- Throttle/Needle mixing (5 points)
- Idle down (any switch selectable)

COLIBRI 2 CAMERA

The Colibri2 is a dual EO-IR stabilized camera built for professionals needing a quality camera for day and night use. Weighing in at 180 grams [6.3 oz], the Colibri2 offers excellent image quality and sharpness to capture detailed imagery, such as license plates and faces.

Zoom : x20 + x2 digital (total x40)
FOV : 60° WFOV – 3° WFOV – 1.5° DFOV
Thermal Resolution : 640x480
Pitch FOR: -45° to +90°
Roll FOR: -180° to +180°
Weight : 180 grams [6.3 oz.]
Dimensions : 53mm [2.099"] x Height=81mm [3.2"]

3 axis stabilizer UAV gimbal optical zoom video camera

3 axis stabilizer UAV gimbal optical zoom video camera

3 axis stabilizer UAV gimbal is for whom want to take some awesome shots without having any shaky videos or blurry photos?

You can buy one that's handheld or a gimbal which is mounted to a drone.

Putting a gimbal on a drone gives you as the camera operator the freedom of taking photos and videos without any vibration or shake.

The photo above shows you an example of a gimbal.

A gimbal holds anything from a small GoPro up to a DSLR for much larger gimbals.

Drones shake, wobble, and vibrate.

Gimbals hold the camera and reduce the shakiness.

Gimbals ensure that the camera always stays horizontal or at a set position.

Advantages

* Highly competitive cost
* DJI's strategic partner
* Leading in the field for UAV payload of advanced technology.
* Certified by CE/ROHS authoritative institution.

Aeronav

The core of the Aeronav is a reliable Panasonic Toughpad , a professional tablet that helps drive efficiency and productivity in ways that were never previously possible; Aeronav is capable of operating outdoors in a variety of extreme and remote environments.

The Aeronav is especially suitable for field application in markets such as aviation, defense, or construction due to its capability to perform under exposure to extreme and constantly changing environments.

Since its release in 2015, we have continuously improved Aeronav's performance in close cooperation with our more than 100 customers worldwide. The Aeronav is a well-proven, secure, and reliable solution, which is easily extendable with your hardware and software requirements. Its production version can be delivered fully customized according to **your specifications**, **including custom software, firmware, engraving, joystick configuration, and radio/control modules.**

The Aeronav is combined with the Panasonic Toughpad, incorporating an 800cd/m² IPSα display. The capacitive 10-finger multi-touch display and digitizer pen makes it extremely user-friendly.

The Aeronav runs on Windows 10 Pro, Windows 8, or Ubuntu and is equipped with the Intel® Core™ i5 Processor. It also benefits from connectivity options to ensure data is available to the user whenever needed.

Compatible with;

IA-18 Ground Control Station

FPV video screen

Diversity receiver 5.8Ghz integrated.
HD LED screen of 10.1″ high definition, high contrast and anti-glare.
Resolution: 1366 × 768
Aspect ratio: 16: 9
Brightness: 550cd / m2
Contrast: 800: 1.
Controlled temperature.
Speakers.
1 Audio/Video output with RCA connector.

D4 Transmitter

5th generation radio.
Multi band ICM: 866Mhz, 868Mhz, 902, 915Mhz, 950Mhz or 433Mhz (optional).
Power: 500 or 1000mW
Sensitivity: -110 or -116dBm
Modulation: 50 or 100Kb. FHSS (Frequency Hopping Spread Spectrum).
Controlled temperature.

Embedded PC

Windows 10
Processor: Intel Quad Core of 1.8GHz
4GB RAM and 64GB flash
Touch screen 7″.
Mini Keyboard Bluetooth.
USB 3.0.
USB 2.0.
HDMI
Ethernet 100Mbps (Optional).
Wifi.
Bluetooth 4.0.

RC Control

Radio Control independent of the PC.
Processor RC control.
Processor each RC Joysticks.
Start-up Key.
Digital voltmeter.
Output 11,1V power
Fuse 5A.
OLED Mini Displays.
Rotary encoders.
Rotary encoders with push buttons.
Joystick Radio Control.

Battery

Lipo 3S/11.1V/5Ah.
Duration approx: 2′5-3h.
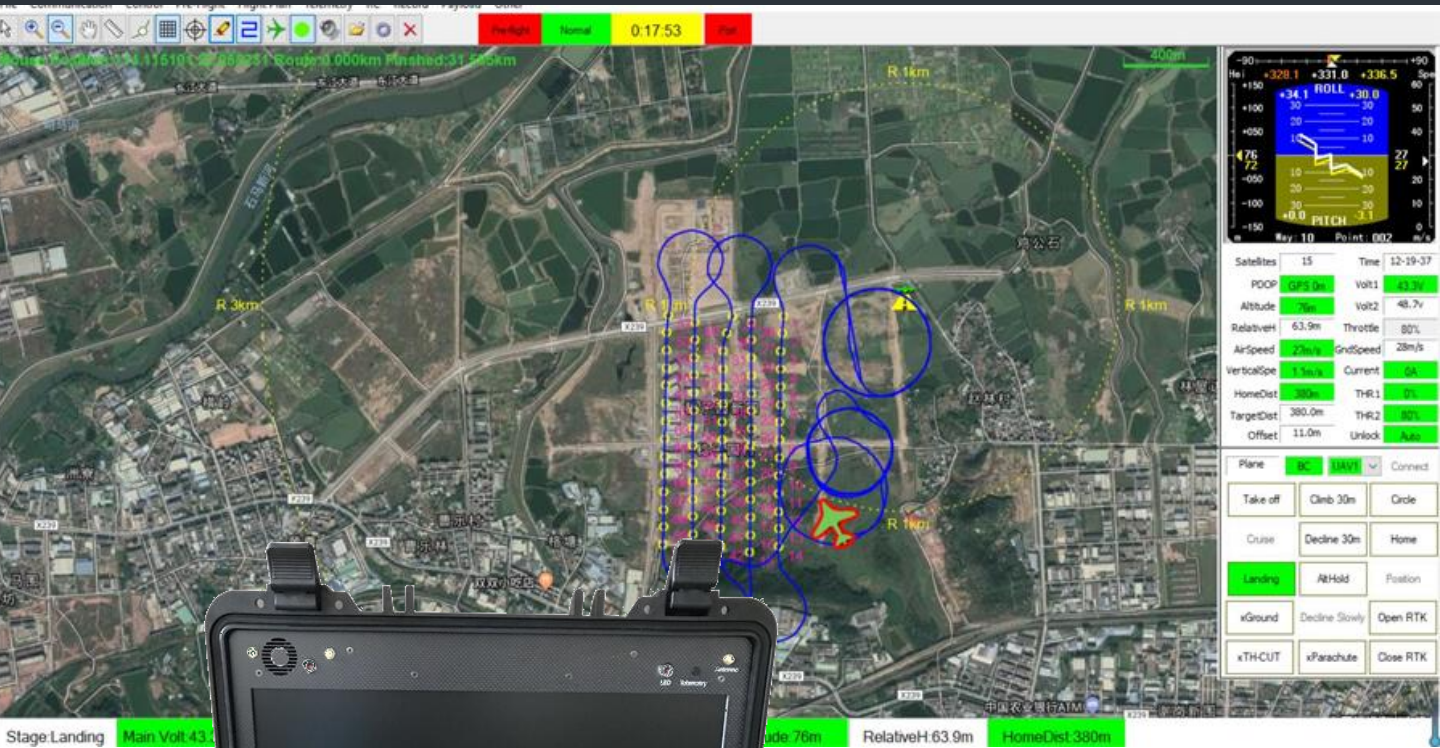Charger 1A.
Input 12-24V.

Suitcase

Robust, dustproof, water resistant (IP67 certified).
Temperature controlled with fans.
Certified with STANAG 4280, DEF STAN 81-41 and ATA 300 standards.
Automatic air pressure compensation valve.
Temperature resistant from -30 ° to + 80 ° C.
Rubber handle.
2 eyelets for padlocks (Ø 7.62 millimeters).
Optional accessories: transport belt.
Dimensions: 36.5 x 29.4 x 17 centimeters

IA-19 Ground Control Station

- Intel i5 CPU computer
- 4G Ram, SSD 128G
- 19" 1440x900, 16:10 HD monitor
- USB x 4, IP port x 2, HDMI x 1
- Internal battery for 4 hours operation
- 12V power output/input
- Full battery operating : 5 hours
- Weight 13kg

Measurement : 479 x 415 x 217mm
Material: Plastic
Floating factor (kg) : 19.7
Storage temperature : -40℃~90℃
Water resistance: IP67