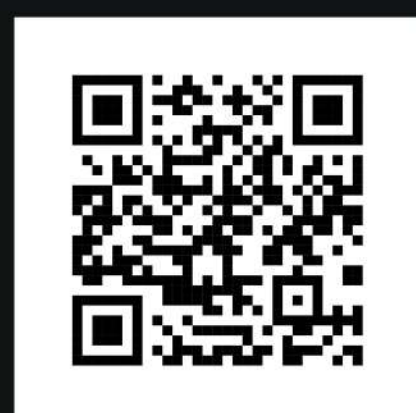


Flyfire.

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DRONE PARACHUTE SOLUTIONS





CREATE AN ERA OF SAFE FLIGHT

flyfire focuses on the research and development of aircraft safety systems. with the goal of "creating the era of safe flight" the company is committed to providing partners with the most reliable aircraft protection equipment and eliminating risks for drone applications.

Flyfire's passive safety solution, through a series of means such as parachutes, airbags, and emergency power outages, greatly reduces the damage and loss of aircraft after an accident.

Flyfire hopes to work with global partners to provide the most reliable UAV safe flight solutions, and jointly create an era of safe flight.



Development Path

2015~2019

Flyfiretech Pte. Ltd. was established, and released the second generation of consumer-grade drone parachute.

Initiate UAV parachute Manti2, and received a huge response from the market.

The first generation of UAV parachute Manti came out, and an agreement was reached with the government Railway Public Security to protect the safety of patrol drones.

2020~2022

With the law introduced on the safety of drones, we have empowered our technology to the industry and established extensive and meticulous cooperation. Make the most use of design and supply chain advantages, producing products with leading performance.



OWC-M300



Product Specifications

Sensor	Dual (IMU barometer)
Software	Firefly APS Algorithm
Connecting Way	PSDK Interface Connection
Parachute Cloth Type	Square Cloth
Protection Class	IPX5
Model	DJI Matrice 300 RTK

Product Performance

Reaction Time	0.8s
Parachute Deployment Time	0.3s
Parachute Cloth Area	7.29m²
Affect the Aircraft's Battery Life	5min
Weight	800g
Siren	Dual Speakers
Paddle Stop Function	Forced Stop
Landing Speed	3.5m/s
Maximum Load	9kg

IN-DEPTH CUSTOMIZATION OF PRODUCTS BASED ON DI PSDK

1. IPX5 protection level,two years
maintenance-free



2. Deploying parachute in 1.3 seconds,Landing speed under normal
environment to 3.5m/s



3. Automatic deploy OR manual deploy



4. Lightweight and wind resistance



OWC-M30



QUICK INSTALLATION, PERFECTLY MATCH WITH DJI M30 DRONE

- Buckle cabin compartment
- Install parachute Cabin PSDK Line
- Snap the paracord lock into the C-shaped hanger



REUSABLE ALWAYS READY FOR NEXT FLIGHT



- Step 1: Take out the four screws of the parachute main
- Step 2: Separate the parachute main control module from the
- Step 3: Replace the new parachute cabin and reinstall

APS AUTOMATIC
SLURRY STOP AND
PARACHUTE OPEN
ALGORITHM

SENSOR
REDUNDANCY
ALGORITHM

PARACHUTE REUSE

ACOUSTO-OPTIC
WARNING

PSDK
TWO-WAY
INTERACTION

CLOUD
APS FIRMWARE
UPDATE

INTERNATIONAL
SAFETY
CERTIFICATION

QUICK
INSTALLATION
SYSTEM



THE HIGH-POWER BUZZER CONTINUOUSLY EMITS 110DB DURING FORCED LANDING



Basic Parameters

Mode	OWL-M30
Operating Temperature	20°C~60°C
Suitable Model	DJI Matrice 30 Series
Working Altitude	≤3500m
Maximum Load	≤4.5kg
Protection Class	IP45
Parachute Cabin Size	130X106X45mm
Wind Resistance Level	7
Parachute Cloth Are	2.25m²
Responding Time	500m/s~600m/s
Weight	280g
Responding Distance	8~15m
Parachute Type	Square Shape
Minimum Deploy Height	23m



manti III

INDUSTRIAL GRADE CHIP
ACCURATELY IDENTIFY FLIGHT STATUS

Quick installation and Reusable 5. Signal loss
fully automatic parachute deploying buzzer locate function, support DJI Mavic\Mavic Air and Phantom series
Landing speed was 5.5m/s



Basic Parameters

Model	Manti3/Manti3plus
Operating Temperature	-20°C - +50°C
Suitable Model	Mavic 2/3/Air/Pro
Fixed Mode	Head Wear
Parachute Cloth Area	0.5m²
Responding Time	5-5.5m/s
Reaction Distance	13.52-25m
Parachute Opening Response	0.5s
Product Size(Standing Pose)	4.1*4.7*3.9/6*6*4.3 (cm)
Product Weight	50g/72g
Sensor	IMU barometer
Protection Grade	IPX4
Minimum Safe Altitude	20m



Basic Parameters

Model	Manti3 plus Phantom series
Operating Temperature	-20°C - +50°C
Suitable Model	DJI Phantom Series
Fixed Mode	Hanging Wail
Parachute Cloth Area	1.1m²
Responding Time	4.12m/s
Reaction Distance	13.52-25m
Parachute Opening Response	0.5s
Product Size(Standing Pose)	6*6*4.3 (cm)
Product Weight	105g
Sensor	IMU barometer
Protection Grade	IPX4
Minimum Safe Altitude	20m

ACCURATELY IDENTIFY
7 MAJOR BOMBING ACCIDENTS

- 1.Signal interference
- 2. Twig Barriers
- 3. Wire Obstruction
- 4. Out of battery
- 5. Signal loss
- 6. Drone out of control
- 7. Strong wind disturbance



UNIVERSALDRONE PARACHUTE
SAFETY SYSTEM



Electronic Control System

Deploy Way	Flyfire APS Automatic Parachute, Flight Control Parachute, Remote Control Parachute
Communication Interface	UART422\CANBUSUSB-Device
communication protocol	CAN-Packae\UAVCANNOSDKIAPS
Paddle Stopping	GPIO\communication command stop pulping
Telecontrol	433.125MHz independent channel
control distance	1 km

3-15kg Parachute Part Parameters

Drone Weight	3-5kg	10-15kg
Parachute System Weight	300g	700g
Size	x*y*z	x*y*z
Parachute Shape	Disc Shape	
Parachute Peak Dynamic Load	50kg	150kg
Parachute Cloth Type	Square	
Parachute Material	Military-Grade High-Strength Lightweight	
Parachute Size	2.65*2.65m	3.95*3.95m
Paracord Length	2.42m	3.0m
Hanging Anchor Point	Bottom Screw	Bottom Black silk
Landing Speed	4-6m/s	

Power Supply

Main Power Input	12-24VDC
Backup Power Input	12-24VDC
Built-In Backup Power Supply	3.7VLi-Po Polymer Lithium Battery
Back up Power duration	30min
Power Consumption	< 1W



Basic Parameters

Use Model	All DJI Models
Start MMethod	Electronic Trigger
Product Weight	140g
Weight	3.5kg-6kg
Start Time	1S to trigger, 5S to float
Proper Temperature	-20°C~60C
Product Size	154x40x43mm
Floating Time	>24h
Inflatable Displacement	6000cc



COLLOCATION RECOMMENDATION



Under 6kg

Drone that do not exceed a maximum take-off weight of 6 kilograms Just tie 1



Over 6 Kilograms

UAVs exceeding the maximum take-off weight of 6 kilograms Need to tie 2



BUSINESS PARTNERS

ACRE
SURVEYING SOLUTIONS

ARMUS

dji

HPDRONES

APPLICATION SCENARIOS



DRONE DELIVERY



CONSTRUCTION INSPECTION



PUBLIC SAFETY



AERIAL PHOTOGRAPHY

Flyfire.