

# M R25

# ALIGN



## Cutting edge All Inclusive Flight Control System

A flight controller born from the integration of cutting edge electronics and innovative information technology. Utilizes a 32 bits high speed processor, combining ESC, power distribution system, OSD, Bluetooth connectivity, and gimbal control function. Featuring high precision 6-axis gyroscopic sensor and barometric sensor. Driven from Align's auto pilot core technology, the highly intelligent attitude calculation subroutine results in a highly stable and reliable performance.



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ANDROID APP ON  
Google play

Download on the  
App Store



## Parameter Settings through App

Setup and flight parameter tuning can be done through apps running on iOS/Android smart phone or tablets. In addition, the app can be used to control DV camera and video recordings.



## Bluetooth Functionality

Bluetooth 4.0 compatibility featuring low power long distance high speed transmission.



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More 

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### Customizeable LED

High intensity LEDs at bottom, motor mounts, and back plate. With 256 colors customizable through smartphone app.



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## DV camera gimbal

Single axis camera gimbal to provide camera tilting angle compensation during high speed flights, keeping camera image level with horizon. Tilting angle is also manually adjustable.



## Camera Multi-function Settings

Camera parameters adjustable through App.  
Example: Image size, shutter speed, aperture, ISO, White Balance, etc.



## FHD High quality DV video recorder

- |   |                                  |
|---|----------------------------------|
| 1. Recording Modes:<br>1080P 30fps/720P 60fps       | 4. Supports Micro SD card (32GB) |
| 2. Photography Mode: 5M pixels                      | 5. Mini USB · AV OUT/DC IN · MRS |
| 3. FOV 90 Degrees,<br>Less than 5% Image Distortion | 6. PAL · NTSC                    |



## Remote control photo/video function

Camera shutter and video start/stop functions can be controlled through RC remote.





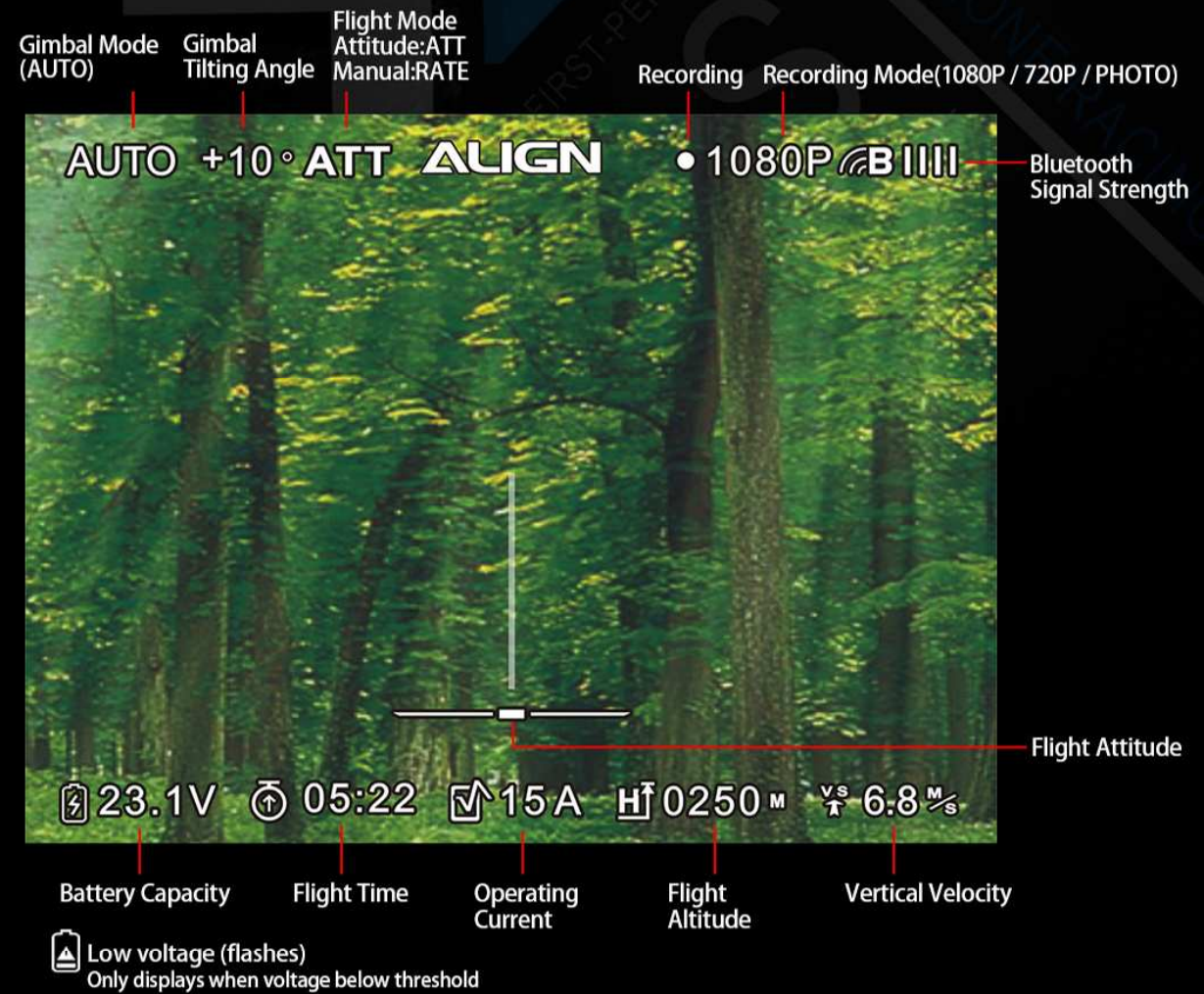
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OSD

## Live Flight Data

Live Flight data display including flight time, mode, attitude, voltage, capacity, current, altitude, vertical velocity, camera mode, recording mode, and low voltage warning. All of which can be activated/de-activated through APP.



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video downlink system 1km

FPV

FPV

FPV through MR25 onboard DVR camera and 5.8Ghz video downlink system, broadcast live with zero latency to LCD screen or FPV goggles.



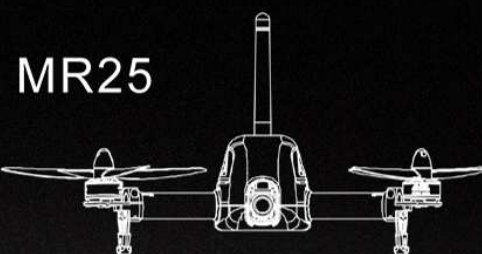
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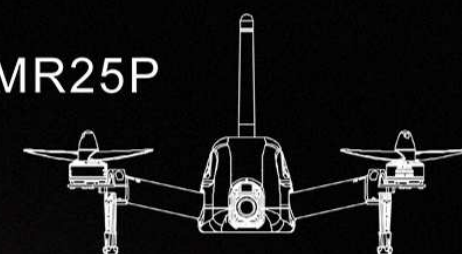


## Impact resistant aerodynamic shell

Aerodynamically efficient outer shell made with light weight impact resistant ABS plastic alloy material. Provides extra protection while increasing flight visibility. Also features in screw-less quick latch mounting design that is easy, quick, and reliable for battery replacement. Multiple color scheme available for customization.



MR25



MR25P

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Motors featuring high torque,  
high speed, and high efficiency

Brand new Align BL1806-2300kv multirotor race motor, based on Align's legendary motor core technology, featuring high torque, high speed, high efficiency, low power consumption, and low temperature. Flight time approximately 9 minutes with 3s-1300mah battery.

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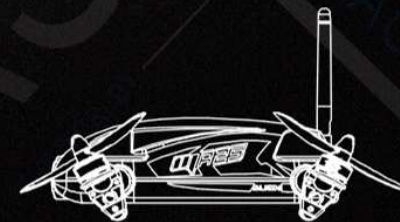
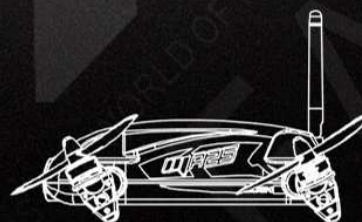
Motor tilt angle adjustable +/- 30 degrees

1. Standard Mode

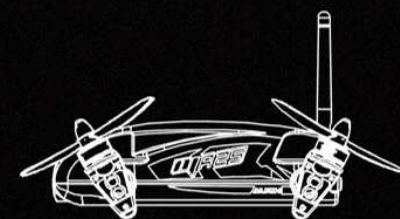
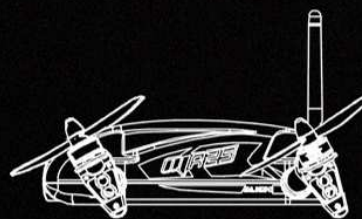
2. Sports Mode

3. Stability Mode

MR25



MR25P

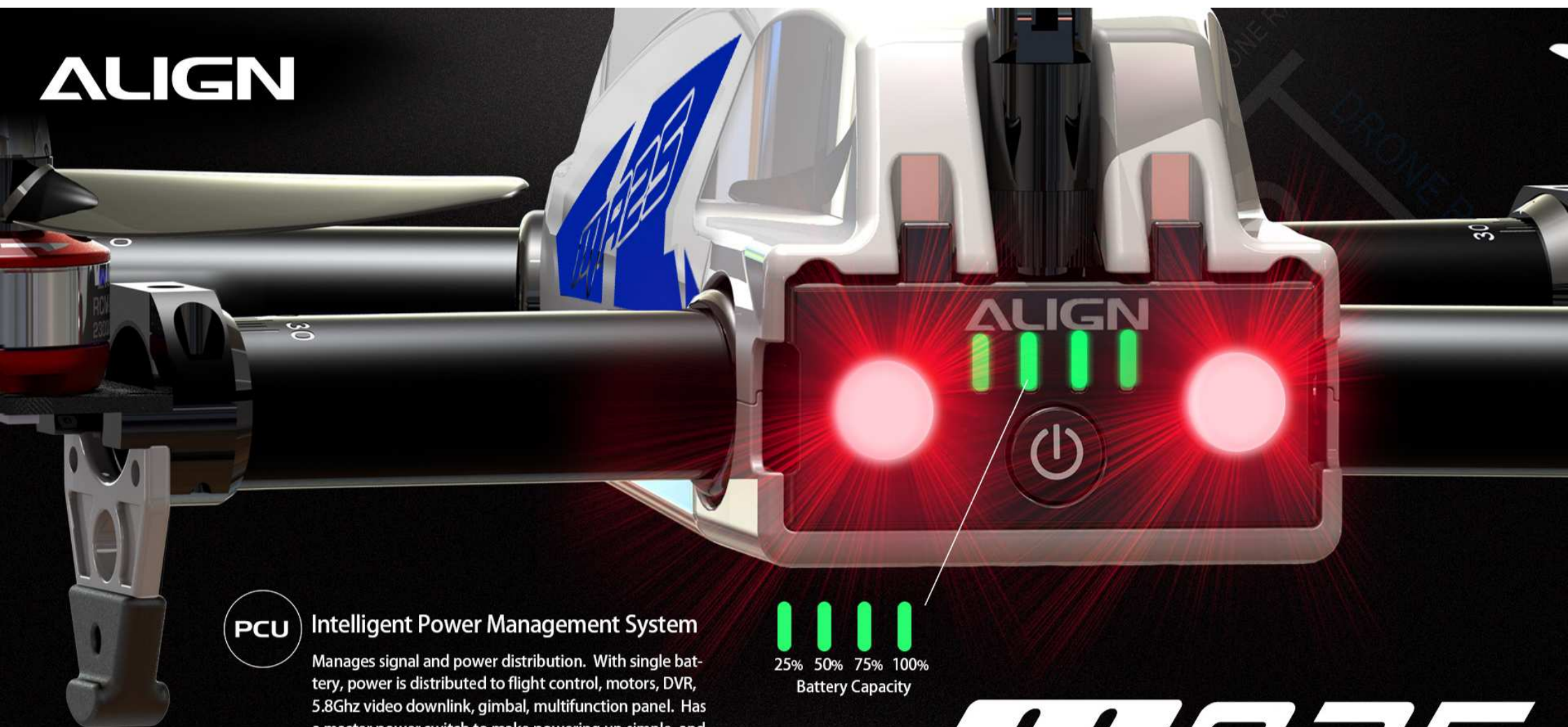


## Adjustable Motor Tilt Angle

Adjustable Motor Tilting Angle with maximum +/- 30 degrees angle offering flexibility to compensate for camera angle, or improve speed and stability, giving you the optimal edge at starting line.



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**PCU**

## Intelligent Power Management System

Manages signal and power distribution. With single battery, power is distributed to flight control, motors, DVR, 5.8Ghz video downlink, gimbal, multifunction panel. Has a master power switch to make powering up simple, and a battery meter to display current battery capacity. The multifunction panel has unique brake and turn signals for the added realism during FPV racing.



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Hold Elevator at end for 0.5 seconds, MR25 will execute fast forward/reverse flip



Hold Aileron at end for 0.5 seconds, MR25 will execute fast roll



## Stunt mode function

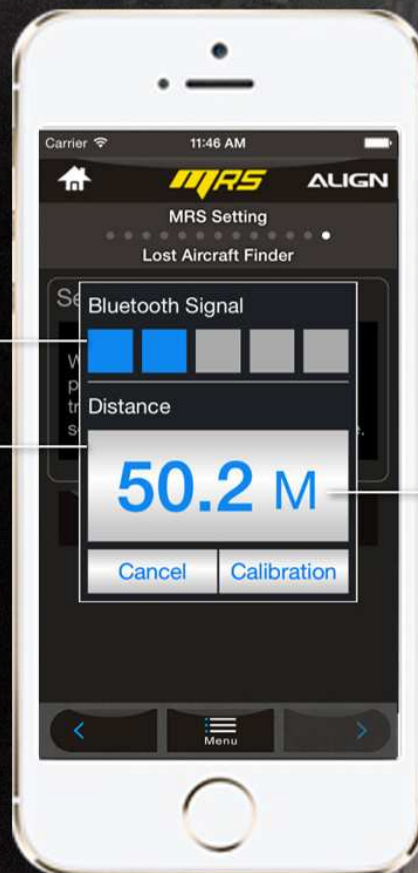
Capable of 3D flips by moving aileron/elevator stick to the end.



# MR25

Determine MR25 direction  
through signal display

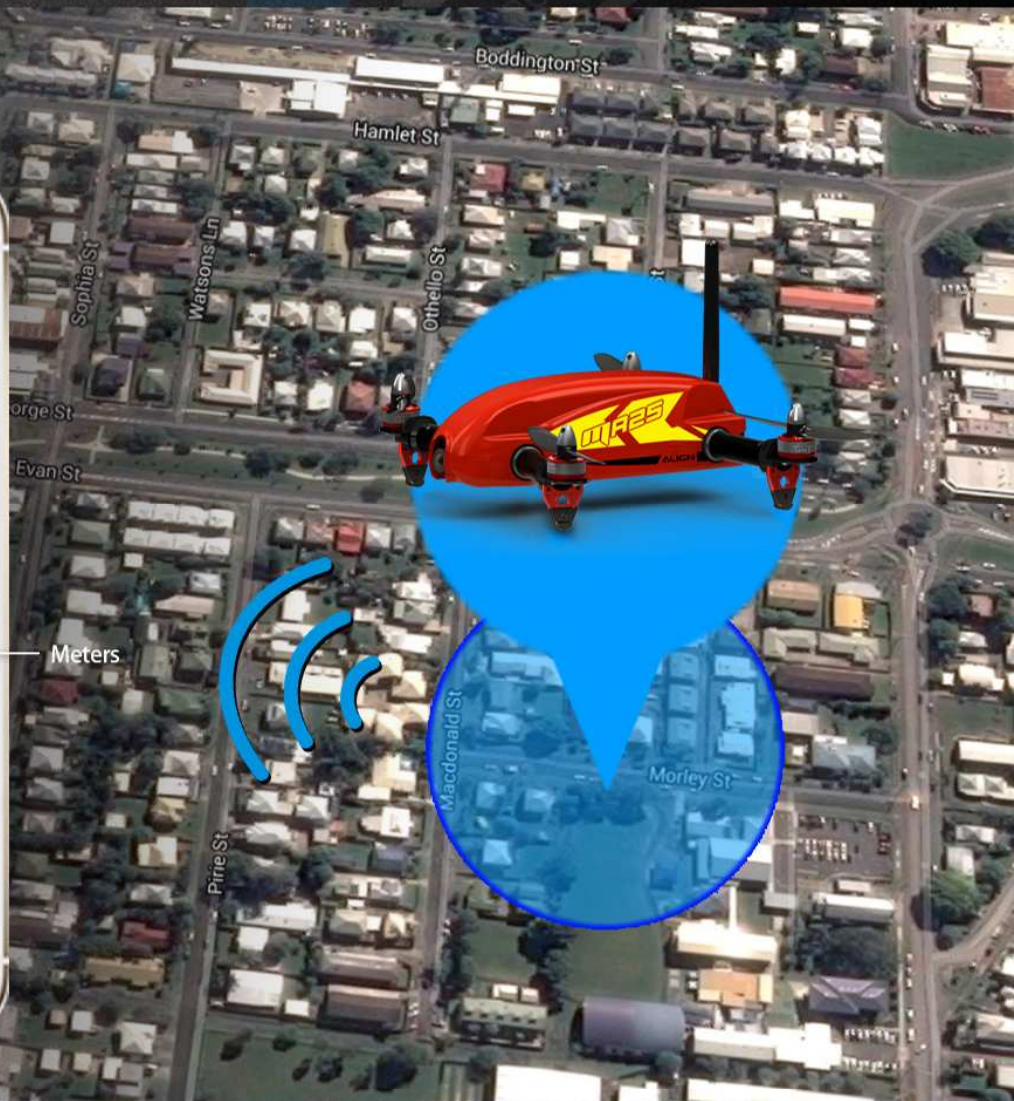
Determine MR25 distance  
through parameters



## Lost Aircraft Finder

Down aircraft can be located through the lost aircraft finder function of the app.  
(Tested up to 100 Meters)

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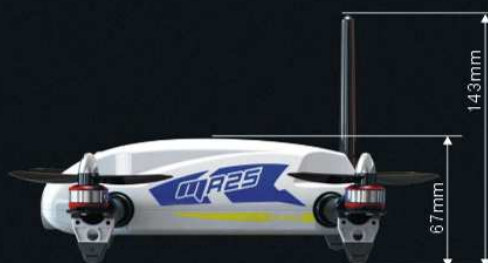


# MR25P

【RM42503XT】

# MR25

【RM42501XT】



## — Standard Equipment —



### MR25 FPV Racer

Frame Diameter: 250mm  
Frame Height(Excluding Antenna): 78mm  
Propeller Diameter:  
5inches(127mm)/6inches(152mm)  
AUW(Excludes Battery): Approx 300g



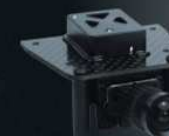
### Brushless Motor

KV: 2300KV  
Input Voltage: 3cell  
Silicon Steel Slots: 12  
Magnetic Poles: 14  
Size:  $\phi 5 \times \phi 23 \times 26.2$ mm  
Weight: 18.2g



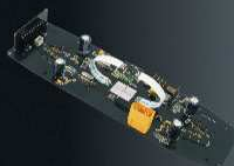
### MR25 DV Video Camera

Recording Mode:  
1080P 30FPS/720P 60FPS  
Encoding Format: MOV(H.264)  
Photo Resolution: 3M Pixels  
Input Voltage: 5V  
FOV: 90degrees + Less than 5% Distortion  
Memory Card: Micro SD(Maximum 32GB)  
Video Output Format: PAL,NTSC



### DV Camera Gimbal

Tilt Angle:  $\pm 12^\circ$   
Torque Output: 0.8kg.cm(5V)  
Rotational Speed: 0.06/60" (5V)  
Rated Voltage: DV 4.8-6V



### MRS Flight Control

Input Voltage: 10V~16.8V  
CPU Frequency: 800HZ  
Max Speed:  
elevator/aileron 400degrees/sec ;  
rudder 45degrees/sec  
Max Tilt Angle: 45°  
Max Altitude: 700M  
Operating Temp: -20° C~65° C



### Video Transmitter

Transmitting Frequency: 5.8GHz  
Transmitting Channels: 32 CH  
Input Voltage: 7~19V DC  
Operating Current: 300mA 12V  
Transmitting Power: 25mW / 350mW  
Weight: 21.4g