

MFC-2085
MULTI-FUNCTION

FLIGHT CONTROLLER SYSTEM

ENGLISH MENU INTRODUCTION & QUICK ENTRANCE



Want to learn more about the productvideo, pictures, and other matters of attention Please log in: www.hsdrc.com

Product Guarantee Condition

During the production process, HSDJETS has conducted a series of rigorous tests on each MFC 2085 Multi-function Flight Controller System. We always attach great importance to the maintenance of the highest quality standards, which is reason we can give all our MFC-2085 products 3 months of assurance and the effective from the initial date of purchase. The warranty covers the material failure, which will be replaced by us free of charge. We wish to emphasize in particular that we reserve the right to replace if economic reasons can not be repaired. The purchase receipt and invoice is the proof of after-sales service. Free maintenance is limited to the warranty period only. Misuse and damage, such as antipolarity, overvoltage and humidity effects, which apply to failures due to server wear or excessive vibration, are not in the services options. Product quality assurance and after-sales service does not include any additional claims. HSDJETS only warrants that the MFC-2085 is repaired or replaced and will not be liable for any other loss or damage.

Product Features

- 01. Two-way power management system 2S, 7.4 V input voltage design, single way 2OA maximum electric current output, can meet the requirements of most aircraft in the today's market, and it has a function that the battery automatically seamless switches.
- **02.** 0.96 inch OLED display screen, scroll menu preview internal settings. The main interface can display battery voltage value, power on time and other information.
- 03. The intelligent landing gear timing sequence system, can adjust the operating current of the landing gear and can set one key to retractable cover plate and landing gear.
- **04**. Supporting electric brake control function and slow start brake, which make the aircraft taxiing more stable
- 05. With lighting control system, it can be turned on and off through the setting of remote control system programming, and five lighting flashing mode are arbitrarily called.
- 06. With the landing gear cover control system, it can extend or shorten the closing or opening time of the cover plate, it can also set the secondary action of the cover plate, and it can also adjust the servo stroke of the cover plate.
- **07**. Can set the positive and negative reversals of the servo, includes ailerons, elevator, directions, flaps, and covers.

- **08**. With the function of adjusting the neutral position of the servo, includes ailerons, elevator, directions and flaps.
- 09. The stroke of ailerons, elevator, directions and flaps can be adjusted by MFC-1085 multi-function flight controller.
- 10. With flight trajectory offset system. According to the characteristics of the aircraft, can set the elevator offset of the accelerator and flap to offset the curve and let it adjust arbitrarily.
- 11. Supporting tail lighting system, with the adjusted of the accelerator the lighting effect can be changed.
- 12. Supporting S-UBS bus(lines) functions, arbitrarily set 8 function channels, one signal line to complete the required functions.
- 13. The back line design. The line from the bottom of the installation position, the upper surface only two UBEC power input socket, no see other signal lines in surface, easy to install, simple and beautiful.
- 14. The output voltage of the receiver can be adjusted by programming. Two types of voltage choices can be used. The receiver and the steering gear can adjust the voltage range separately.
- 15. Simultaneously compatible with electric landing gear system and pneumatic landing gear system.

Product Specification

- * Working voltage: 7.4 V, 2S for DC. (battery input)
- * Navigation lights/Landing gear lights voltage: 3.2 V
- * Receiver Output voltage: 6~7.4 V adjustable

* Servo voltage: 6~7.4 V adjustable

* Electric air valve voltage: 6 V

* Electric landing gear voltage: 7.4 V

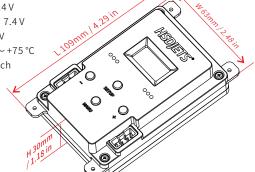
* Electromagnetic Brake voltage: 7.4 V

* Combustible lamp voltage: 7.4 V

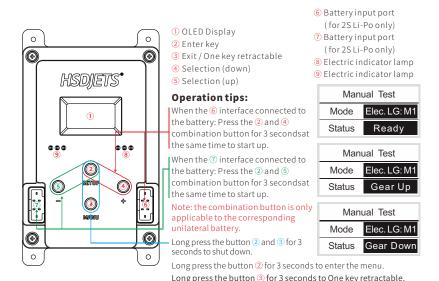
* Working temperature range: -5 ~ +75 °C

* Size: L 4.29 × W 2.48 × H 1.18 inch

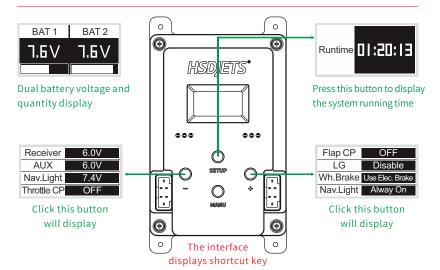
* Weight: 106 g / 3.74 oz



Panel and operation instructions

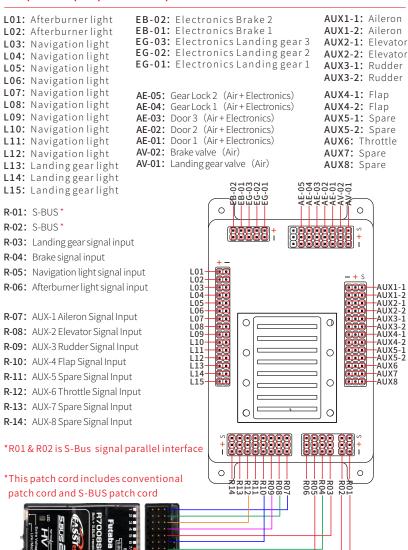


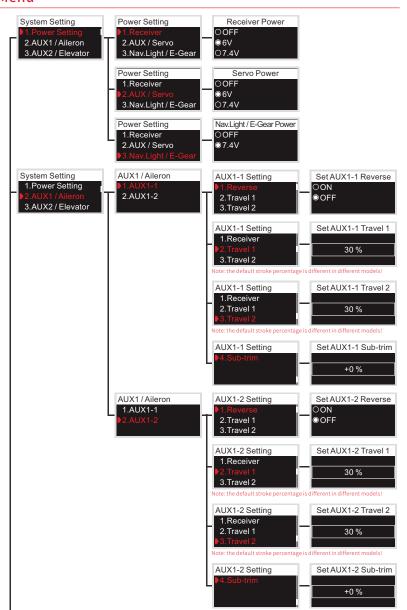
Screen instructions

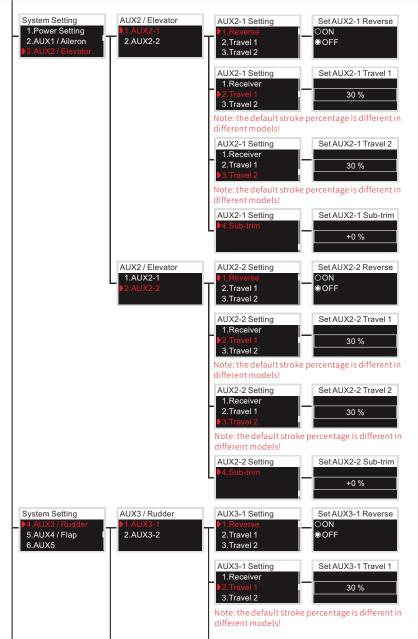


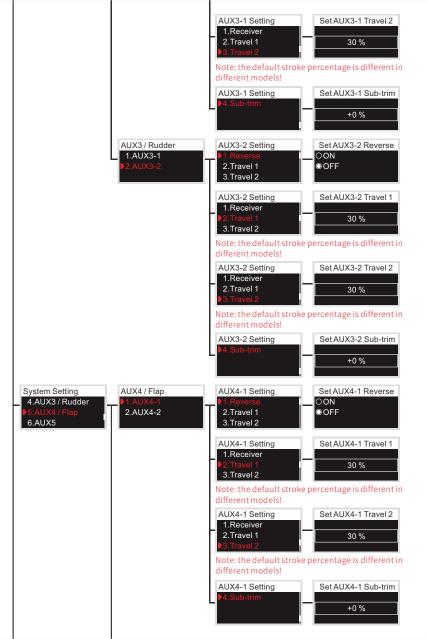
Press the button 2 exit one key retractable.

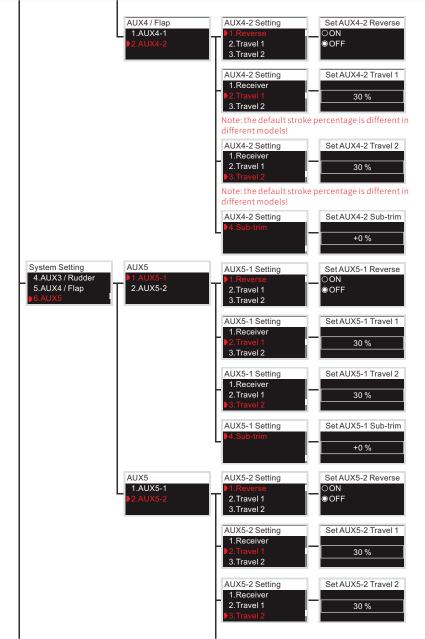
Output & Input port Description

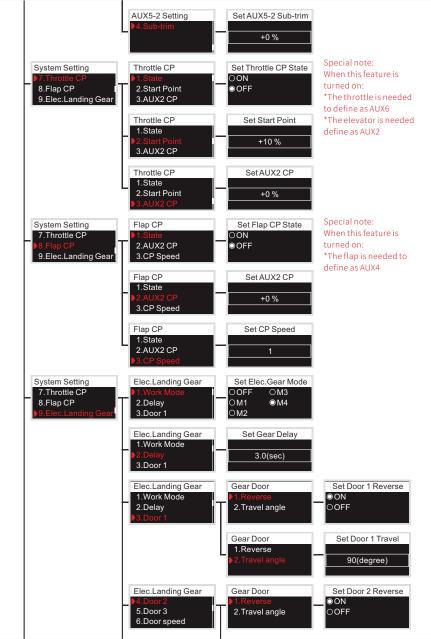


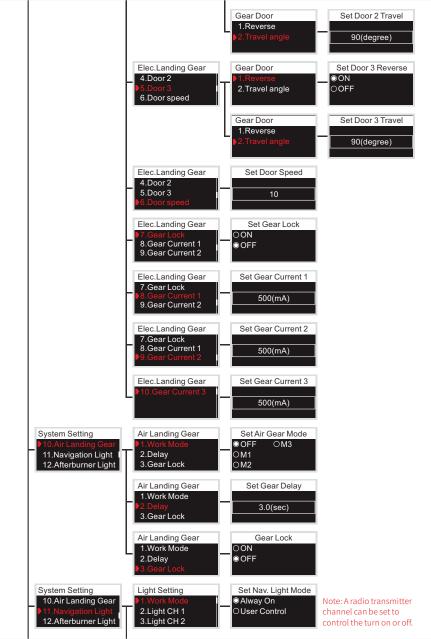


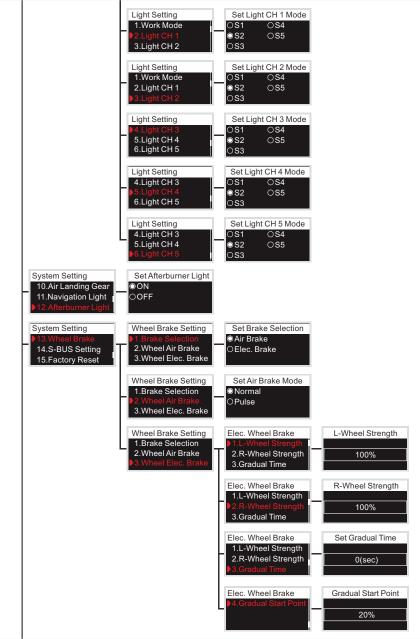




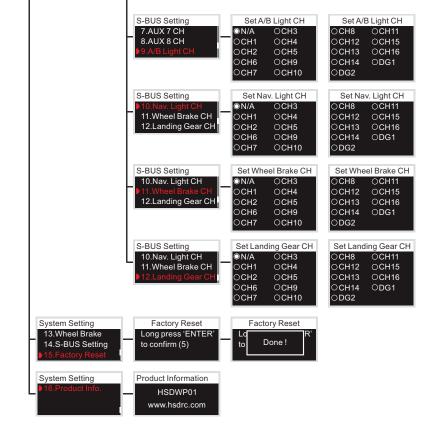






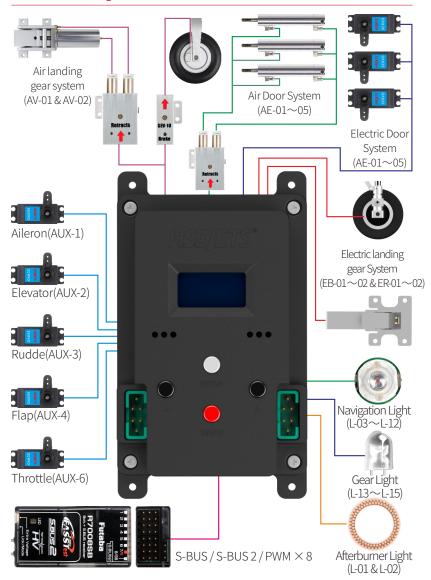


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9.A/B Light CH	[1	9.A/B Light CH		
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8.AUX 8 CH OCH1 OCH4 OCH12 OCH15	LI		0.0114	OCUAS OCUAE
	H			
	H	9.A/B Light CH	OCH2 OCH5	OCH13 OCH16
	[1			



Model 1	Model 2	Model 3	Model 4
D1~D3-Open	D1~D3-Open	D1~D3-Open	D1~D3-Open
.	+	+	+
Delay - xx Sec	Delay - xx Sec	Delay - xx Sec ↓	Delay - xx Sec
•	L/G - Down	L/G - Down	L/G - Down
L/G - Down	+	+	+
+	Delay - xx Sec	Delay - xx Sec	Delay - xx Sec
Delay - xx Sec	+	+	+
Detay Andee	L/G - Lock	L/G - Lock	L/G - Lock
<u> </u>	+	+	+
L/G - Lock	Door 1 - Close	Door 1 - Close	D1~D2 - Close
\Diamond	0	\Diamond	0
	O Door 1 - Open	○ Door 1 - Open	○ D1~D2 - Open
			OD1~D2-Open ↓
L/G - Unlock			D1~D2 - Open ↓ L/G - Unlock
	Door1-Open ↓	Door1-Open ↓	ŧ
L/G - Unlock	Door1-Open ↓	Door1-Open ↓	ŧ
L/G - Unlock	Door 1 - Open L/G - Unlock	Door 1 - Open L/G - Unlock	↓ L/G - Unlock ↓
L/G - Unlock Delay - xx Sec	Door 1 - Open L/G - Unlock	Door 1 - Open L/G - Unlock	↓ L/G - Unlock ↓
L/G - Unlock Delay - xx Sec L/G - Up	Door 1 - Open L/G - Unlock Delay - xx Sec	Door 1 - Open L/G - Unlock Delay - xx Sec	L/G - Unlock Unlock Delay - xx Sec
L/G - Unlock Delay - xx Sec	Door 1 - Open L/G - Unlock Delay - xx Sec	Door 1 - Open L/G - Unlock Delay - xx Sec	L/G - Unlock Unlock Delay - xx Sec
L/G - Unlock Delay - xx Sec L/G - Up	Door 1 - Open L/G - Unlock Delay - xx Sec L/G - Up	Door 1 - Open L/G - Unlock Delay - xx Sec L/G - Up	L/G - Unlock ↓ Delay - xx Sec ↓ L/G - Up

Installation Diagram



Packing list













PWA2×12mm Screw X4

 $Manual \times 1$







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