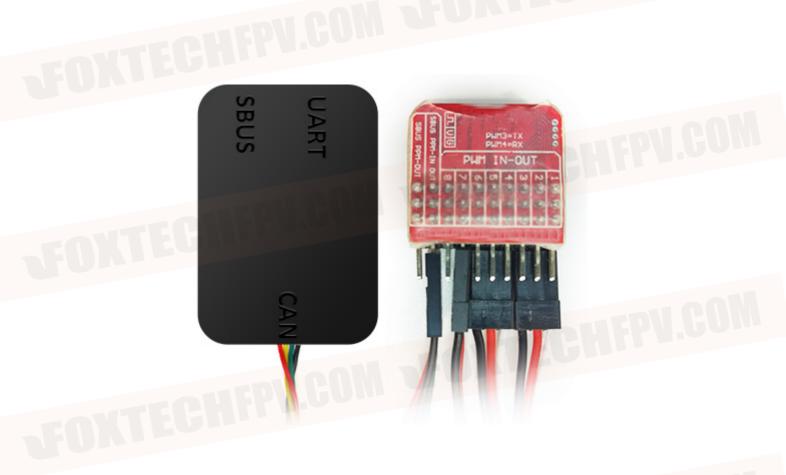
FS Gimbal Camera Assistant

User Manual

V1.0

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Disclaimer

Thank you for purchasing our products. Please read the user manual carefully, and strictly abide by the requirements of this manual to install all software and hardware so that your device can operate normally.

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Product Overview

FS gimbal camera assistant is specially designed for Foxtech FH series and Seeker series gimbal cameras. Equipped with the module, the UAV platform with DJI A3/A3 PRO/M600 Series/N3 Series and Lightbridge2/M600 radio controller/DataLink3 radio controller is able to control FH series and Seeker series gimbal cameras.

The overall weight of the module is less than 51g and the installation is fast and simple. By obtaining status information through DJI system, the real-time performance is better. Besides, the LB2 does not need to install any additional hardware.

FS gimbal camera assistant is compatible with most Foxtech FH series and Seeker series gimbal cameras, which are controlled by standard SBUS/PWM signal, such as FH230 TIR 30X optical zoom and thermal gimbal camera, FH310Z 10X optical zoom gimbal camera, FH336 V2 36x optical zoom starlight camera, SEEKER-30 TIR, SEEKER-10 V2, etc. Users are able to adjust channel mapping according to the configuration of gimbal cameras, and use DJI original APP software to control gimbal cameras for better manipulation experience.

Packing List



1x FS Gimbal Camera Assistant Control Board

1x CAN Cable

1x SBUS/UART Cable

1x PWM-SBUS Signal Conversion Module

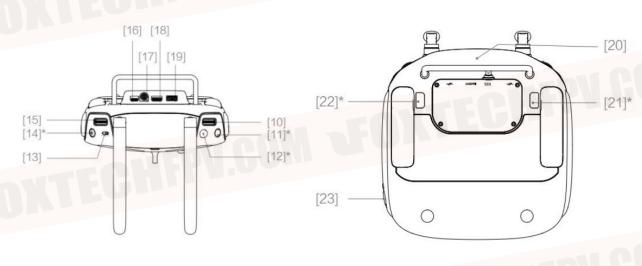
Specifications

Size	45*45*20mm	
Weight	90g	
Interface	SBUS CAN UART	
Supply Voltage	7-28V	
Power Consumption	2w	
Supported Camera Type	with standard PWM signal control interface	

Usage Instruction

Installation Method

- 1. Connect one end of CAN cable to the DJI flight controller CAN1 port, the other end to the control board.
- 2. Connect one end of SBUS/UART cable to PWM-SBUS module. LB2 buttons are defined as follows:



[10]Right Dial

[11]Playback Button

[12]Shutter Button

[13]Flight Mode Switch

[14]Record Button

[15]Left Dial

[21]C1 Button

[22]C2 Button

3.LB2 operation mode corresponding to the SBUS channel is shown as follows

SBUS	Function	LB2 Button	Channel Signal Type	Action
Channel				KIEGIII.
No.			ALCOM WO	
1	Pitch	Left Dial	"Rudder Adjustment Channel(1100-1900),	"Move left dial clockwise for upward.
		IEO III.	Auto-recenter"	Move left dial counterclockwise for downward."
2	Yaw	Left Dial+Shutter	"Rudder Adjustment Channel(1100-1900),	"Press shutter button firstly.
			Auto-recenter"	Move left dial clockwise for turning right, and
				counterclockwise for turning left."
3	Mode	C1	Switch(Press 2000, Release 1500)	Press C1 to recenter
4	Zoom	Left Dial+Playback	"Rudder Adjustment Channel(1100-1900),	"Press playback button firstly.
			Auto-recenter"	Move left dial clockwise for zooming in, and
		rechi		counterclockwise for zooming out."
5 Focus	Left Dial+Record	Switch(Press 2000, Release 1500)	"(Double lens corresponding to picture-in-picture	
				switching)
			Press record button firstyl.	
				Move left dial clockwise for main screen display, and
				counterclockwise for infrared pseudo-color mode
			switch."	
6	Pic/Rec	Left Dial+Right Dial	"Rudder Adjustment Channel(1100-1900),	"Press right dial firstly.
		I E G III.	Auto-recenter"	Move left dial clockwise for starting/stopping record or
				star to shoot pictures, and counterclockwise for pic/rec
				mode switch."
7	Multi	C2	Switch(Press 1000, Release 1900)	"Press once to start tracking and press again
				to cancel tracking"
8		Playback	Switch(Press 1000, Release 1500)	VIII O
9		Right Dial+Record	"Rudder Adjustment Channel(1100-1900),	
			Fixed adjustment"	
10		Shutter	Switch(Press 1000, Release 1500)	
11		Record	Switch(Press 1000, Release 1500)	
12		Right Dial	"Rudder Adjustment Channel(1100-1900),	MOON
			Fixed adjustment"	OHEPU. Guin
13		Right Dial+Shutter	"Rudder Adjustment Channel(1100-1900),	MEGITI
			Fixed adjustment"	
14		Right Dial+Playback	"Rudder Adjustment Channel(1100-1900),	
		HE WILL	Fixed adjustment"	
15		Reserved		
16		Reserved		

- 4.If the gimbal camera supports serial port protocol, users can connect the UART cable to the corresponding interface of the gimbal camera.
- 5. The range of supply voltage is 7-28V.

Debugging Method

- 1.Complete power-on self test successfully.
- 2. Move left dial of the LB2 to check the related actions.
- 3.If the gimbal camera supports protocol, users can see the update information of the pitch angle through the DJIAPP software interface.

Operation Method

- 1. Verify gimbal camera related actions according to LB2 button mapping channel table.
- 2.Use DJI APP software to test gimbal camera related actions.

Precautions

- 1. Connect cables according to the interface location.
- 2. Ensure that the supply voltage of the control board is within the required range.