

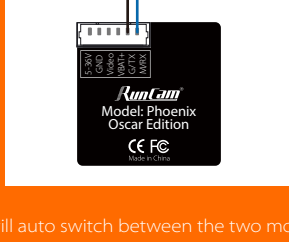
RunCam Phoenix Oscar Edition

USER MANUAL

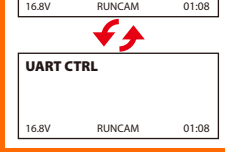
Joystick Control & UART Control Switchable

The top left corner of the screen will shortly display the current control mode. The default is Joystick control mode.

1 Short the two camera control pins



2 Then power on, camera will auto switch between the two modes

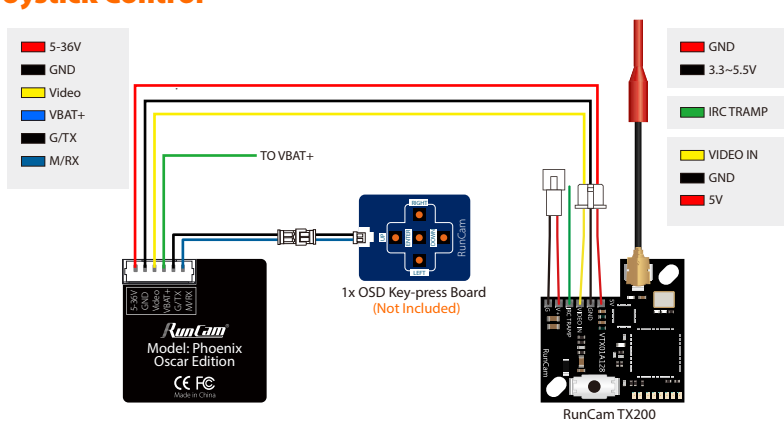


3 The mode can be saved after power off. After switching to the desired mode, please unplug the short-circuit cable.

UART works with Flight Controllers:

BetaFlight 3.3 or above / ButterFlight 3.4 or above / CleanFlight 2.2 or above

Joystick Control



UART Control

1. Flight controller wiring

Note: Take UART3 for example

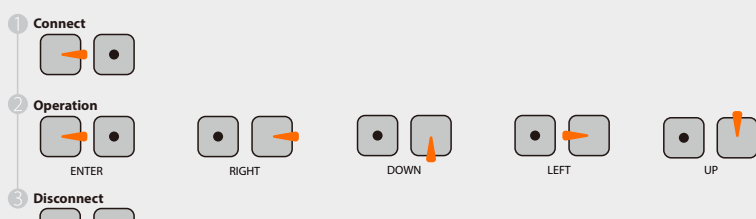


2. Betaflight 3.3 or above setting

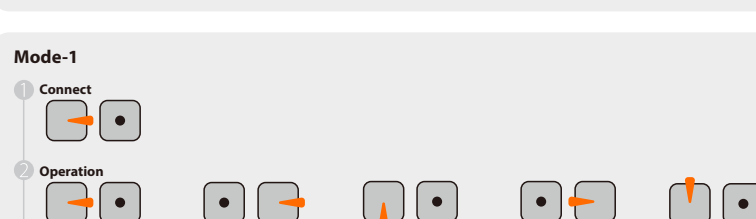
Identifier	Configuration/MS	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USBVCP	115200	Off	Disabled	Disabled	Disabled
UART1	115200	Off	Disabled	Disabled	Disabled
UART2	115200	On	Disabled	Disabled	Disabled
UART3	115200	Off	Disabled	Disabled	RunCam Device
UART4	115200	Off	Disabled	Disabled	Disabled
UART5	115200	Off	Disabled	Disabled	Disabled

3. UART Control

Mode-2

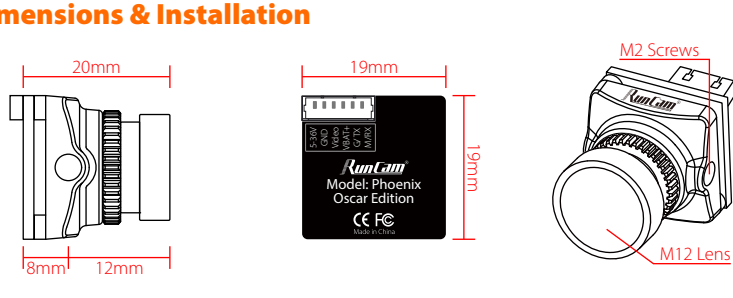


Mode-1

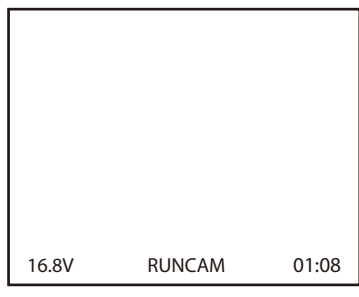


* When connected, The buzzer on Flight Controller will beep for 3 times; When disconnected, The buzzer on Flight Controller will beep for 2 times only; If connected successfully, you can long press the up button to enter the OSD menu, left button to calibrate voltage and down button to reset OSD.

Dimensions & Installation



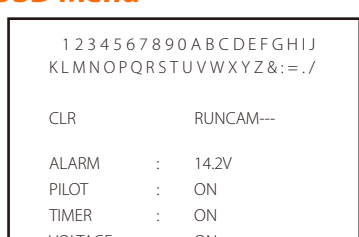
Quick Settings



Operating:

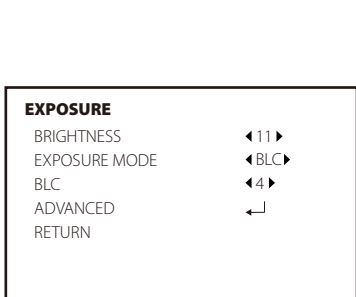
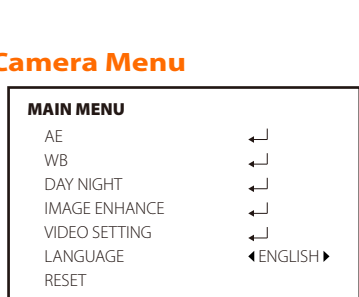
- Long press LEFT button for three seconds to calibrate the voltage. When the voltage text flashes, press UP/DOWN button to adjust it
- Long press DOWN button for six seconds to reset OSD settings to default

OSD Menu

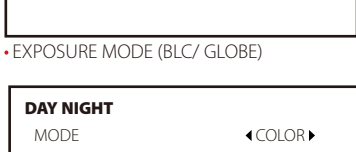
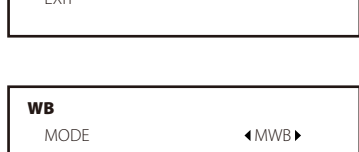


- Long press UP button for three seconds to access to the OSD setting's screen
- CLR: clear the ID character;
- ALARM: low voltage warning value, smartly judge the warning value of the battery when it's low; if set it manually, then it saves the manual preset value;
- Press the middle button to switch ON / OFF.

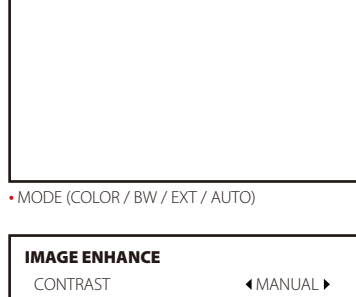
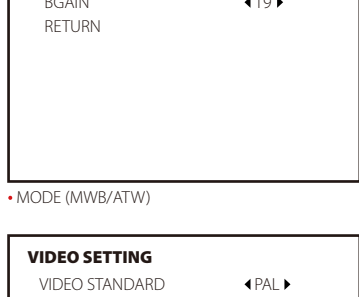
Camera Menu



• EXPOSURE MODE (BLC/ GLOBE)



• MODE (COLOR/ BW / EXT / AUTO)



• CONTRAST (MANUAL/AUTO)

• SHARPNESS (MANUAL/AUTO)

• COLOR GAIN (MANUAL/AUTO)

• VIDEO STANDARD (PAL/NTSC)

• IMAGE RATIO (4:3 / 16:9)

Parameters

Model	RunCam Phoenix Oscar Edition
Image Sensor	1/3" 120dB WDR Sensor
Horizontal Resolution	1000TVL
Screen	2.5mm (M12) FOV 140° 4:3 / 1.8mm(M12) FOV 160° 4:3
Screen Format	4:3 / 16:9 Switchable
Mirror/Flip	Available
Signal System	PAL / NTSC Switchable
Integrated OSD	Yes
S/N Ratio	>50dB (AGC OFF)
Electronic Shutter Speed	Auto
Auto Gain Control (AGC)	Auto
Min. Illumination	0.01Lux@1.2F
WDR	D-WDR
Day/Night	Color / Auto / B&W
Menu Control	Cable Control / Remote Control Switchable
Power	DC 5-36V
Current	220mA@5V / 120mA@12V
Housing Material	ABS
Net Weight	9g
Dimensions	19mm*19mm*20mm