



RUNCAM

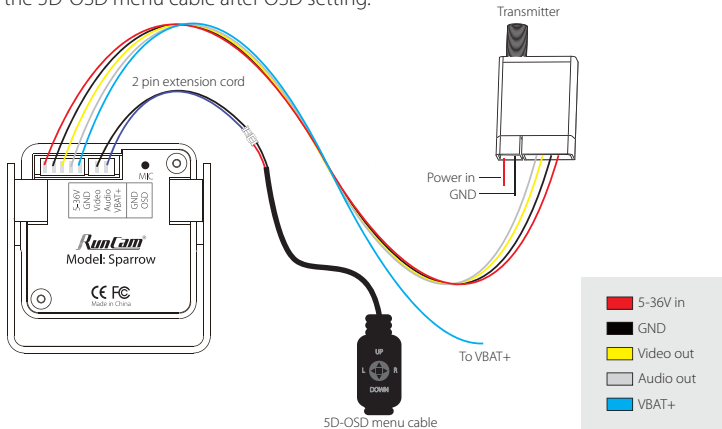
Sparrow

USER MANUAL

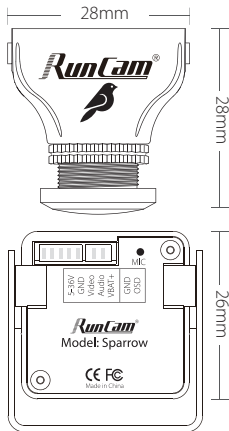


Connection

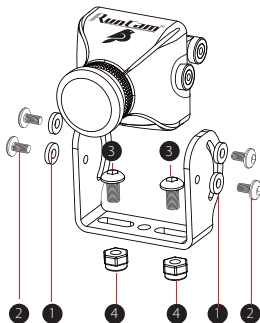
* Unplug the 5D-OSD menu cable after OSD setting.



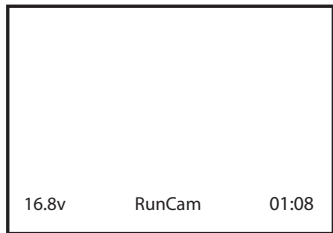
Dimensions & Installation



- 1 Nylon Gaskets
- 2 M2 Screws
- 3 M3 Screws
- 4 M3 Non-slip Nuts



OSD Menu



- **Quick settings:**

Long press the LEFT/DOWN/RIGHT button for 2 seconds to activate the VOLTAGE/PILOT/TIMER, then you can use the UP, DOWN, LEFT and RIGHT buttons to move it to the appropriate location on the screen, and press the CENTER button to exit.

- **Voltage Calibration**

- Press and hold the RIGHT button for 2 seconds to select the voltage
- Press and hold the CENTER button for 2 seconds, the voltage starts to flash, now you can adjust the Voltage:
 - Reduce (LEFT button) or increase (RIGHT button) 0.1V each press. Maximum adjustment range: $\pm 1v$
 - After adjustment, press the CENTER button to select the voltage, then press it again to save and exit.

- The OSD displays by default the input voltage of the camera. If the VBAT + cable is connected to the battery's positive side, it displays the battery voltage instead.

OSD Menu

OSD Setting: Press and hold the UP button for 2 seconds to enter OSD setup menu.

RunCam

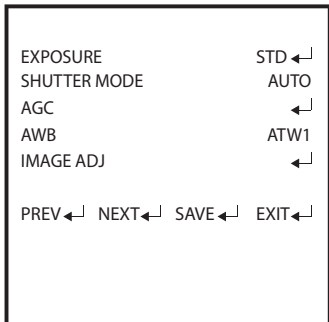
1234567890ABCDEFGH
HIJKLMNOPQRSTUVWXYZ
YZabcdefghijklmnop
pqrstuvwxyz.-:/@

PILOT	ON
TIMER	ON
VOLTAGE	ON
BASELINE	OFF
DEFAULT	
EXIT	

- PILOT: ON/OFF
 - TIMER: ON/OFF
 - VOLTAGE: ON/OFF
 - BASELINE: OFF/1-9
 - EXIT: Save the current settings and exit
-
- Customize the PILOT name: Use the UP, DOWN, LEFT and RIGHT buttons to navigate through the letters and confirm with the CENTER button.

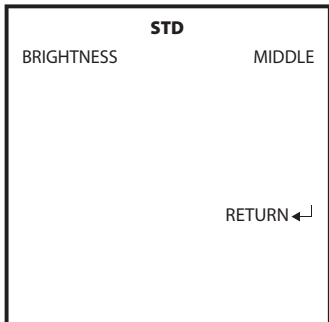
Camera Menu

- EXPOSURE



- EXPOSURE (**STD** / BLC)
- SHUTTER MODE
AUTO / MANUAL 1/25-100000
- AWB (**ATW1** / USER / PUSH)

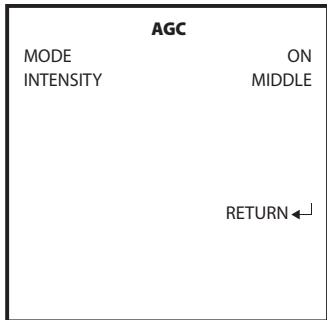
- STD



- BRIGHTNESS (LOW / **MIDDLE** / HIGH)

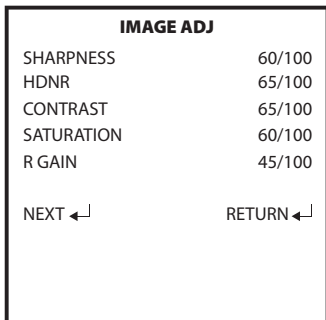
Camera Menu

- AGC



- MODE (**ON** / OFF)
- INTENSITY (LOW / **MIDDLE** / HIGH)

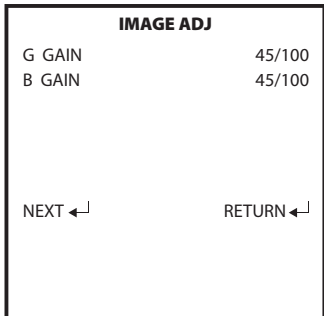
- IMAGE ADJ



- SHARPNESS (**60** / 0-100)
- HDNR (**65** / 0-100)
- CONTRAST (**65** / 0-100)
- SATURATION (**60** / 0-100)
- R GAIN (**45** / 0-100)

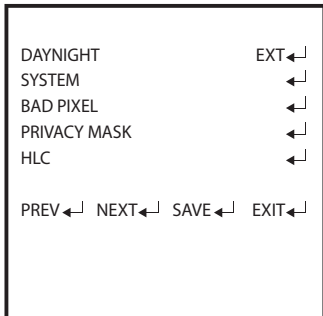
Camera Menu

- IMAGE ADJ



- G GAIN (**45** / 0-100)
- B GAIN (**45** / 0-100)

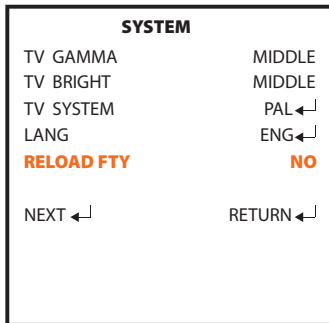
- DAYNIGHT



- DAYNIGHT (**EXT**/COLOR/BW/AUTO GEN)
- SYSEM / BAD / BAD PIXEL / PRIVACY MASK / HLC (**No need to set**)

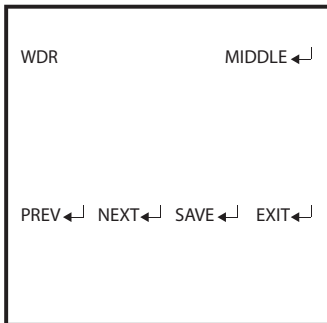
Camera Menu

- SYSTEM



- TV GAMMA (LOW / **MIDDLE** / HIGH)
- TV BRIGHT (LOW / **MIDDLE** / HIGH)
- TV SYSTEM (PAL / NTSC)
- LANG (**ENG** / 简 / 日本語)
- **RELOAD FTY** (NO / YES)

- WDR



- WDR (LOW / **MIDDLE** / HIGH)

Parameters

Model	RunCam Sparrow
Image Sensor	1/3" CMOS Sensor
Horizontal Resolution	700TVL
Lens	2.1mm FOV150° / 16:9
Signal System	NTSC/PAL Switchable on OSD menu
Integrated OSD	Yes
Integrated MIC	Yes
Camera Menu	Yes
S/N Ratio	>50dB (AGC OFF)
Electronic Shutter Speed	PAL: 1/25~100,000; NTSC: 1/30~100,000
Auto Gain Control (AGC)	LOW / MIDDLE / HIGH
Min. Illumination	0.01Lux@1.2F
WDR	LOW / MIDDLE / HIGH
DNR	Yes
Day/Night	EXT / COLOR / BW / AUTO GEN
Power	DC 5-36V
Working Current	12V@80mA / 5V@180mA
Net Weight	14g
Dimensions	L28mm*W26mm*H25mm