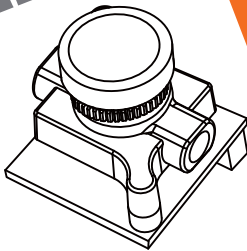




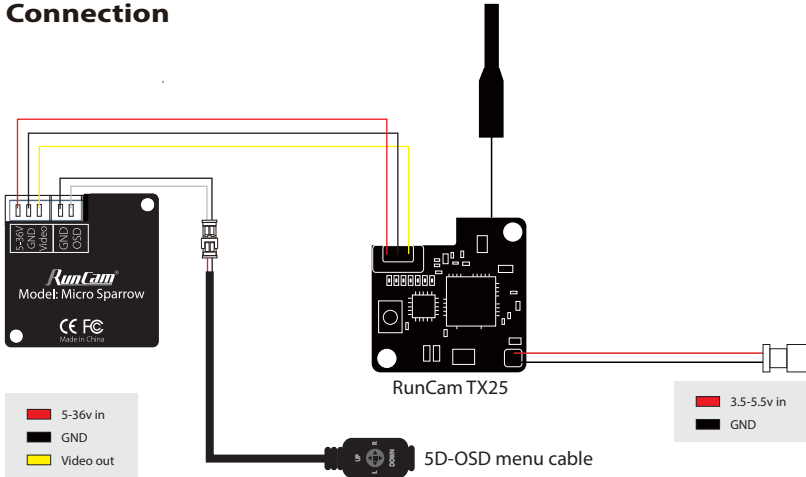
RUNCAM

Micro Sparrow

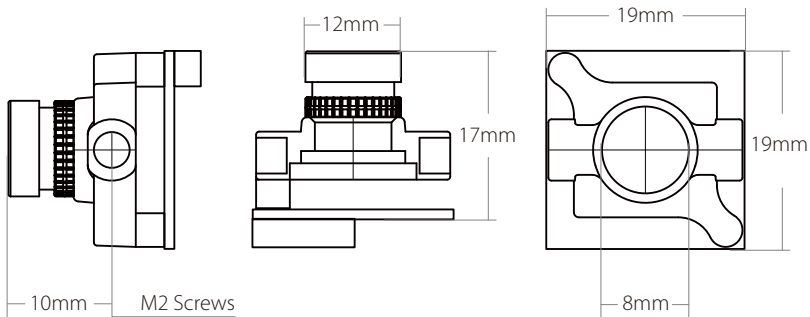
USER MANUAL



Connection

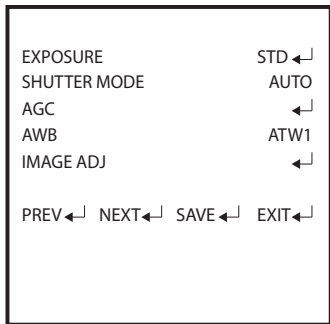


Dimensions & Installation



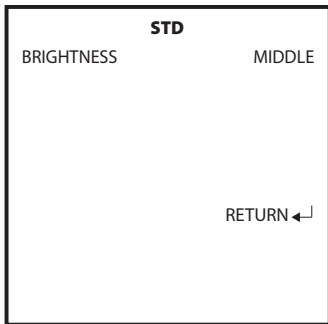
Camera Menu

- EXPOSURE



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

- STD



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

Camera Menu

- AGC

AGC	
MODE	ON
INTENSITY	MIDDLE
RETURN ← ↵	

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

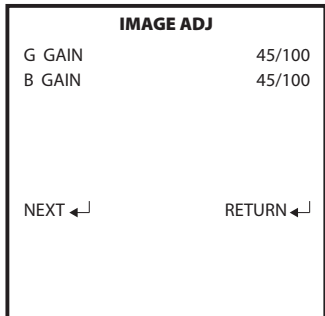
- IMAGE ADJ

IMAGE ADJ	
SHARPNESS	60/100
HDNR	65/100
CONTRAST	65/100
SATURATION	60/100
R GAIN	45/100
NEXT ← ↵	RETURN ← ↵

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

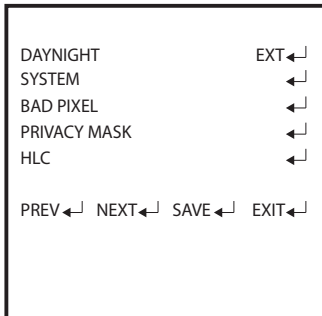
Camera Menu

- IMAGE ADJ



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

- DAYNIGHT



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

Camera Menu

- SYSTEM

SYSTEM	
TV GAMMA	MIDDLE
TV BRIGHT	MIDDLE
TV SYSTEM	PAL ← ↵
LANG	ENG ← ↵
RELOAD FTY	NO
NEXT ← ↵	RETURN ← ↵

- 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	MIDDLE ← ↵
PREV ← ↵	NEXT ← ↵
SAVE ← ↵	EXIT ← ↵

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

Parameters

Model	RunCam Micro Sparrow
Image Sensor	1/3" CMOS Sensor
Horizontal Resolution	700TVL
Lens	2.1mm (M8) FOV145° / 16:9
Signal System	NTSC/PAL Switchable on OSD menu
Integrated OSD	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	2DNR
Day/Night	EXT/COLOR/BW/AUTO GEN
Power	DC 5-36V
Working Current	12V@70mA / 5V@170mA
Net Weight	4.6g
Dimensions	19mm*19mm*17mm