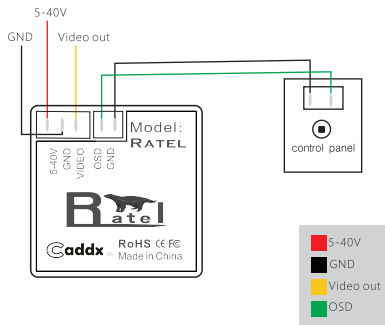


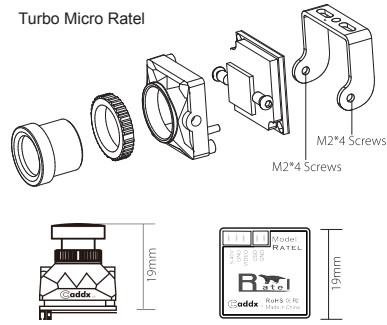
## Connection

\*Disconnect the 5D-OSD menu panel after OSD setting.



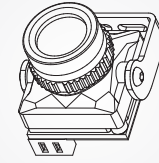
## Dimensions & Installation

### Turbo Micro Ratel



Model	Caddx Ratel
Image Sensor	1/18" inch starlight HDR sensor
Horizontal Resolution	1200TVL
TV System	NTSC & PAL (changeable)
IMAGE	16:9 & 4:3 (changeable)
WDR	Super WDR (HDR)
Min. Illumination	Starlight
Lens	1.66mm, 2.1mm
Synchronization	Internal
Electronic Shutter	PAL: 1/50-100,000; NTSC: 1/60-100,000
S/N Ratio	>60dB (AGC OFF)
Video Output	CVBS
Camera OSD	Separate OSD
DNR	3-DNR
LANGUAGE	ENG/France/RUS/SPA/PU/KOREA/CHN/JAPAN
Day/Night	Auto/Color/B&W/EXT
Dimensions	19mm*19mm*19mm
Wide Power Input	DC 5-40V
Work Temperature	-20°C~+60°C
Work Humidity	20%-80%
Weight	8g (N.W.) / 40.5g (G.W.)

**Caddx** us Ratel Series  
USER MANUAL



Caddx Ratel

## Camera Menu

### Main Menu

MAIN MENU	
AE	↵
WB	↵
DAY & NIGHT	↵
IMAGE ENHANCE	↵
VIDEO SETTING	↵
LANGUAGE	<ENGLISH>
RESET	
SAVE EXIT	
EXIT	

LANGUAGE (ENGLISH/中文/繁體中文/русский/ESPAÑOL/ITALIANO/FRANÇAIS/POLSKIM/ PORTUGUES/日本語)

### AUTO EXPOSURE

EXPOSURE	
BRIGHTNESS	<13>
EXPOSURE MODE	<BLC>
BLC	<4>
ADVANCED	↵
RETURN	

BRIGHTNESS (0-30)  
EXPOSURE MODE (GLOBE/ BLC)  
BLC (1-8)

### AUTO EXPOSURE

AE ADVANCED	
SHUTTER CTRL	<MANUAL>
SHUTTER	<1/1000>
GAIN CTRL	<MANUAL>
ANALOG GAIN	<5>
DIGITAL GAIN	<10>
RETURN	

SHUTTER CTRL (MANUAL/ AUTO)  
SHUTTER (1/25 / 1/50 / 1/100 / 1/250 / 1/500 / 1/1000 / 1/2000 / 1/5000 / 1/10000)  
GAIN CTRL (MANUAL/ AUTO)  
ANALOG GAIN (1-16)  
DIGITAL GAIN (1-15)

### WHITE BALANCE

WB	
MODE	<MWB>
RGAIN	<7>
BGAIN	<12>
RETURN	

MODE (ATW/MWB)  
RGAIN (0-32)  
BGAIN (0-32)

### DAY NIGHT

DAY NIGHT	
MODE	<EXT>
RETURN	

MODE (BW/AUTO/COLOR/EXT)

### IMAGE ENHANCE

IMAGE ENHANCE	
CONTRAST	<MANUAL>
VALUE	<35>
SHARPNESS	<MANUAL>
VALUE	<5>
COLOR GAIN	<MANUAL>
VALUE	<10>
3DNR	<MANUAL>
VALUE	<22>
RETURN	

CONTRAST (MANUAL/ AUTO)  
VALUE (0-40)  
SHARPNESS (MANUAL/AUTO)  
VALUE (0-16)  
COLOR GAIN (MANUAL/AUTO)  
VALUE (0-30)  
3DNR (MANUAL/AUTO)  
VALUE (0-30)

### VIDEO SETTING

VIDEO SETTING	
VIDEO STANDARD	<PAL>
IMAGE RATIO	<16:9>
WDR	<OPEN>
RETURN	

VIDEO STANDARD (PAL/NTSC)  
IMAGE RATIO (16:9/4:3)  
WDR (OPEN/CLOSE/EXT)