TVI Camera

User Manual
Version: TVI 1
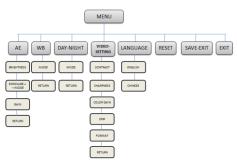
1. TECHNICAL PARAMETERS

Sensor Type	1/2.7" Sensor		
Signal System	NTSC/PAL		
Resolution	1920×1080p		
LENS	2.8-12mm	3.6mm	2.8mm
IR Distance	115ft	65ft	
Video Output	1 BNC (TVI /Support CVBS)		
Day & Night Switch	ICR		
Frame Rate	30fps / 25fps		
Min. Illumination	0lux（IR LED ON）		
S/N Ratio	>52dB（AGC off）		
Electronic Shutter	1/60s~1/67500s		
White Balance	ATW		
Working Environment	-20℃~ 50℃，10% ~ 90%（Humidity）		
Power Supply	DC12V（±10%）		

2. INSTALLATION

1、 Avoid installing it directly towards the sun.
2、 Do not install it in the place where temperature is above 50℃ or below -20℃.
3、 Avoid operating and storing in the water.
4、 Video cable connector and DC tie-in must be avoided touching water.
5、 Please ensure that power input is right.
6、 Support UTC Remote Control OSD Function by Default(Coaxitron) Protocol

OSD configuration

```
                            MENU
   ┌──────┬──────────┬──────────┬──────────────┬──────────┬───────┬───────────┬──────┐
   AE     WB     DAY-NIGHT   VIDEO-        LANGUAGE    RESET   SAVE-EXIT   EXIT
                             SETTING

BRIGHTNESS  MODE      MODE     CONTRAST      ENGLISH

EXPOSURE—   RETURN    RETURN   SHARPNESS     CHINESE
 —MODE

GAIN                           COLOR GAIN

RETURN                         DNR

                               FORMAT

                               RETURN
```

MAIN MENU:
AE
WB
DAY-NIGHT
VIDEO-SETING
LANGUAGE
RESET
SAVE EXIT
EXIT

AE	
BRIGHTNESS	1-20
EXPOSURE——MODE	GLOBE/CENTER/BLC/FLC
GAIN	1-8
RETURN	

AE: You can set the AE mode as Brightness、
EXPOSURE 、GAIN

WB	
Mode	[Auto/ ATW/ MWB EXT]
RETURN	

Day and night	
Mode	[COLOR /B/W /Smart]
RETURN	

WB: ATW/MWB EXT

Day and night: Color, B/W,Smart are selectable for DAY/NIGHT switches

VIDEO-SETTING	
CONTRAST	1-10
Sharpness	1-20
COLOR GAIN	1-20
DNR	1-15
FORMAT	NTSC/PAL
RETURN	

LANGUAGE :

English
Chinese

RESET: Restore all parameters to default settings.

3. TROUBLESHOOTING

No.	Problem	Reason	How to solve
1	Image normal in the day while vague or being interfered by horizontal stripes at night.	Power is not enough or power cable is too long.	Change power supply or shorten power cable.
2	No image	Wrong connection to the video cable.	Reconnect
		Power gets problem.	Change power supply.
		Having not connected to power supply.	Plug in.