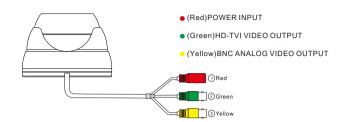
# MANUAL OF PROFESSIONAL 1080P HD-TVI IR DOME CAMERA SERIES



# READ THIS MANUAL CAREFULLY BEFORE INSTALLING AND OPERATING THIS PRODUCT

# **CAUTIONS:**

- 1. Please don't touch the sensor and lens with your hand.
- 2. Please don't install the camera in following unstable conditions: shake, extremely hot, extremely cold etc.
- 3. The recommended conditions of the installation are temperature from -10 to 50°C and moisture under 85%.
- Please kindly contact your sales person in case you have any question on assembly or installation.

# Features & Attachment:

- 1. Features:
  - \* 1/2.8'' Sensor
  - \* Video Output: HD 1080P@30fps / 25fps
  - \* 2D-NR/3D-NR/Smart NR/Sense-up/Digital Zoom Functions etc.
  - \* 3.6/2.8-12mm Mega Pixel Lens
  - \* High-quality IR Cut Filter
  - \* Weather Proof : IP66

\* Support UTC Function to remote control OSD menu by Default (coaxitron)Protocol

2. Attachment:

\* One User Manual \* Tools & Installation Screws

# Assembly & Installation

- 1. Firstly, find a suitable position to install the camera, remove the dome's cover and then install the bottom bracket(Case) on the ceiling by screws.
- 2. Fixed the camera on the bottom bracket.
- 3. Input the power to the power connector ① indicated in the
- drawing. Check the input voltage according to the camera label.
  4. Connect the HD-TVI video output connector<sup>(2)</sup> indicated in the drawing to the monitor or other video equipment.
- Connector<sup>3</sup> is an analog video output, used for installation video adjusting.
- 5. Adjust the camera level until you can get a good image of the target by adjusting the camera 3 axis internal bracket. Install and fix the dome cover, and make sure to put the window on the shield directly toward to the camera lens.

Note: Mark 0,2,3, please refer to the upper picture in this manual.

# **OSD Menu Function Introduction**

### MAIN MENU:

MAIN MENU		
► 1.LENS	MANUAL	
2.EXPOSURE	L	
3.BACKLIGHT	OFF	
4.WHITE BAL	ATW	
5.DAY&NIGHT	AUTO 🔟	
6.NR	L	
7.SPECIAL	L	
8.ADJUST	Г	
9.RESET	L	
10.EXIT	L	

# MENU ADJUSTMENT:

Press Menu Button to enter main menu, and then main menu options will display on the screen. Use the UP/DOWN Button to move cursor to different menu options, and use the LEFT or RIGHT Button to set or adjust the menu parameter. Please press Menu Button to EXIT after finishing adjustment.

## SUBMENU OPTION:

Some menu options have its submenus ,if the right side of menu option display <sup>J</sup>, please press Menu Button to enter submenu for parameter settings.

SUB-MENU:

EXPOSURE		
▶ SHUTTER	AUTO	
AGC	14	
SENS-UP	L OTUA	
BRIGHTNESS		
D-WDR	OFF	
DEFOG	OFF	
RETURN	RET	

### MAIN MENU OPTIONS FUNCTIONS

### 1. LENS OPTION:

Select the lens type, MANUAL / DC / VIDEO/P-Iris Lens selectable.

### 2. EXPOSURE OPTION:

1) SHUTTER: Selecting shutter mode: AUTO and FLK and it is also adjustable from 1/25(1/30)-1/50000. It is adjustable from X2-X30 under Sense-up condition.

- 2) AGC: Auto Gain Control, It is adjustable from 0-15.
- 3) SENSE-UP: AUTO/OFF. It is only available under the AUTO shutter mode. It is adjustable from X2-X30.
- 4) BRIGHTNESS: Output brightness settings. Default setting is 32.
- 5) D-WDR: Digital WDR mode settings, ON/OFF selectable.
- 6) DEFOG: Setting fog penetrating function, ON/OFF selectable.
- POS/SIZE: Adjust the defog area position and size.
- GRADATION: Gradation settings. HIGH/MIDDLE/LOW/OFF selectable
  - · DEFAULT: reset HSBLC option to default settings.
- RETURN: return to the upper menu.
- 7) RETURN: return to upper menu.

### 3.BACKLIGHT:

Backlight compensation: WDR/Backlight Compensation(BLC)/Super Backlight Compensation(HSBLC)/OFF selectable.

•SUBMENU OF BLC:

GAIN: backlight gain settings, HIGH/MIDDLE/LOW selectable. AREA: adjust BLC area and set the compensation area size after entering AREA menu.

- DEFAULT: reset BLC option to default settings.
- RETURN: Return to the upper menu.
- •SUBMENU OF HSBLC:

SELECT: select the backlight compensation area, 4 areas selectable. DISPLAY: setting to ON/OFF the selected area.

LEVEL: the sensitivity of compensation area settings.

MODE: HSBLC mode settings. the super backlight compensation available only at night or all day.

BLACK MÁSK: configure ON/OFF of Black Masks.

- (DEFAULT: reset HSBLC option to default settings.
- RETURN: return to upper menu.

### 4. WHITE BALANCE:

Auto Tracking White Balance/Auto White Balance/Indoor Mode/Outdoor Mode/Manual White Balance/AWC-SET selectable. (White balance function is unavailable if the setting of DAY&NIGHT function is black-white mode.)

•SUBMENU OF MANUAL WHITE BALANCE:

It is adjustable from 0-100 in the blue or red gain.

### 5. DAY&NIGHT:

Setting day and night mode, AUTO/COLOR/ B/W /EXT selectable.

•SUBMENU OF AUTO DAY&NIGHT FUNCTION:

DELAY: adjust delay time of switching, it is selectable from 0-60 seconds.

D-N: adjust the sensitivity for Day switching to Night, it is selectable from 0-100.

N-D: adjust the sensitivity for Night switching to Day, it is selectable from 0-100.

RETURN: return to upper menu.

•SUBMENU OF B/W:

Burst: ON/OFF are selectable to set burst when DAY switching to NIGHT.

IR SMART: smart IR function settings, ON/OFF selectable.

- LEVEL: adjust IR SMART level from 0-15.
- AREA: Choose IR SMART area.
- RETURN: return to the upper menu.
- RETURN: return to upper menu.

#### 6. NR:

#### Digital noise reduction setting.

- •2D-NR: 2D noise reduction settings, ON/OFF selectable.
- •3D-NR: 3D noise reduction settings, ON/OFF selectable.

•SMART NR:ON/OFF selectable, select ON and press MENU to enter the submenu to adjust its sensitivity.

•LEVEL: adjust the sensitivity of noise reduction, it is selectable from 0-100.

•SMART. AGC: adjust noise reduction starting at level from 0-100.

•END. AGC: adjust noise reduction ending at level from 0-100. •RETURN: return to upper menu.

•RETURN: return to upper menu.

#### 7. SPECIAL: the special functions settings

1) CAM TITLE: camera name settings, ON/OFF selectable.

Press the MENU button to enter ON sub-menu, then press LEFT/RIGHT or LEFT/RIGHT to move cursor to target character, press MENU button to select character, move cursor to END to return to upper menu.

2) D-EFFECT: other functions settings.

FREEZE: freeze function, ON/OFF selectable.
 MIRROR: mirror function, OFF/ROTATE/V-FLIP/ MIRROR selectable.

•D-ZOOM: digital zooming function, ON/OFF selectable. If turn the digital zooming ON, then could enter submenu for digital navigation.

•D-ZOOM: digital zoom level is selectable from x2.0 - x62 •PAN&TILT: use UP/DOWN or LEFT/RIGHT to set digital zoom area.

•DEFAULT: reset D-ZOOM option to default settings.

- •RETURN: return to upper menu.
- •SMART D-ZOOM:

•SELECT: select digital zooming are settings.4 areas selectable

•DISPLAY: digital zooming area display settings. ON/OFF selectable.

- •SENSITIVITY: adjust digital zooming area sensitivity.
- •D-ZOOM: digital zoom level is selectable from x2.0 x64

•TIME: zooming area display time settings.0-15 second

selectable

•DEFAULT: reset to SMART D-ZOOM default settings

•RETURN: return to upper menu.

NEG.IMAGE: negative image function settings, ON/OFF
selectable.

DIS:not available.

•RETURN: return to upper menu.

 MOTION: motion detection function settings, ON/OFF selectable. If turn the MOTION function ON, then could enter the submenu to set.

• SELECT: detection areas settings, 4 areas are selectable.

• DISPLAY: setting to turn on or turn off the MOTION function on the selected area; adjust sizes of the selected area.

• SENSITIVITY: adjust the sensitivity of motion detection, it is selectable from 0-60.

 MOTION VIEW: the prompt function on the screen when some moving objects are detected, ON/OFF selectable.

• DEFAULT: reset MOTION options to default settings.

• RETURN: return to upper menu.

4) PRIVACY: private protection area settings, ON/OFF selectable. If turn the PRIVACY function ON, then could enter the submenu to set.

•SELECT to set the privacy protection areas, 1-8 areas are selectable.

DISPLAY: privacy areas display settings.

COLOR/MOSAIC/INV/OFF selectable. it is can adjust the position and shape of the privacy area in COLOR, MOSAIC and INV.

 COLOR: setting the color on the privacy protection area, 1-16 colors are selectable.

• TRANS: choose to change the transparency on the privacy protection area, 5 levels are selectable.

• DEFAULT: reset PRIVACY option to default settings.

• RETURN: return to upper menu.

5) LANGUAGE: language settings, support 17 languages. E.g., ENG/ARB/GER/FRA/CHN1/CHN2/JAP/RUS/POL/ITA etc.. 6) DEFECT: dead pixel correction function.

• LIVE DPC: live dead pixel correction function. ON/AUTO/OFF selectable. Select ON and press MENU to enter the submenu

• LEVEL: setting sensitivity of live dead pixel correction, it is selectable from 0-100.

- RETURN: return to upper menu.
- STATIC DPC: static dead pixel correction function, ON/OFF

selectable. Select ON and press MENU to enter the submenu • START: open static DPC function

LEVEL: adjust sensitivity of static dead pixel correction, it is selectable from 0-60

- SENS-UP:X2-X30 selectable
- AGC:Auto Gain Control,0-8 levels selectable.
- RERTURN: return to the upper menu.

7)RS485:RS485 communication settings.

- CAM ID: camera ID settings,0-255 for selectable.
- ID DISPLAY: camera ID display settings, ON/OFF selectable.
- BAUDRATE: baudrate settings. E.g., 2400/ 4800/ 9600/ 19200/
- 34800.
- RETURN: return to the upper menu.
- 8) VERSION: display software version information.
- 9) RETURN: return to upper menu.

#### 8. ADJUST:

Setting other image functions.

- 1) SHARPNESS: setting the sharpness, it is adjustable from 0-15.
- 2) MONITOR: select the monitor to display image, LCD/CRT are
- selectable.
- •SUBMENU OF LCD:
- GAMMNA: setting the output GAMMNA characteristic,
- Auto/User/User+Y/0.45-1.00 selectable.
- ADAPT. LEVEL: adjust LCD monitor brightness levels. 0-100 levels selectable.
- BLUE GAIN: blue gain settings, it is adjustable from 0-100.
- RED GAIN: red gain settings, it is adjustable from 0-100.
- RETURN: return to upper menu.
- •SUBMENU OF CRT:
- BLACK LEVEL: adjust black level, it is adjustable from -30-50.
- BLUE GAIN: adjust blue gain, it is adjustable from -30-50.
- RED GAIN: adjust red gain, it is adjustable from -30-50.
  RETURN: return to upper menu.
- 4) LSC: Lens Edge Correction settings, ON/OFF Selectable.
- 5) VIDEO OUT: Signal System settings, NTSC/PAL Selectable.
- 6) RETURN: Return to upper Menu.
- b) RETORN. Return to upper Menu.

#### 9. RESET:

1)FACTORY: Choose this option to reset camera to factory default settings or save the changed settings. 2)RETURN:Return to upper Menu.

10. EXIT: Exit the OSD Menu.

SPECIFICATIONS		
Solution	1/2.8'' Mega Pixel Sensor	
Signal System	PAL/NTSC	
Sync. System	Internal Sync.	
Effective Pixels	2.0 Mega Pixels	
Sensing Area	5.42mmX3.41mm	
Horizontal Resolution	PAL:1920X1080P 25F/S NTSC:1920X1080P 30F/S	
OSD Menu	Support (Sense-up / 2D DNR, 3D DNR / Digital Zoom /ect. functions)	
Video Output	<b>1.0Vp~p75</b> Ω	
S/N Ratio	More than 50dB (AGC OFF)	
White Balance	Auto Tracking White Balance	
Shutter Speed	1/25-1/50000	
Infrared Lamps	Night/Day ON/OFF	
Mimimum Illumination	0 Lux(Infrared Lamps Turn on)	
IR Radiation Distance	20/30m	
Built-in Lens	3.6/2.8~12mm Mega Pixel Lens	
Working Temperature	-10°C~50°C	
Storage Temperature	-20°C~60°C	
Power Requirement	DC12V Max Power Consumption Less Than 5W (when the infrared lamps turn on)	

The content of this manual is subject to change without notice.