

TP-750

PRODUCT MANUAL

700TVL DWDR Outdoor Bullet Camera



Please read this manual carefully before installation.

VER. : 1.0 2012

Thank you for purchasing our TheOne line of products. Before installation please read this manual carefully to ensure proper use.

SAFETY PRECAUTION



CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT OPEN!



CAUTION : TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT OPEN COVERS.
NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.

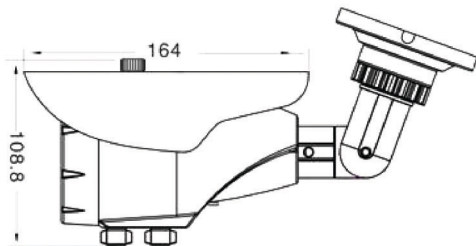
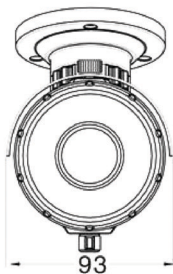
INSTALLATION

- Do not attempt to disassemble the camera. Any modification to the construction of this camera will void the warranty.
- Do not subject the camera to extreme shocks.
- Never point the camera toward the sun.
- Install the camera under conditions where temperatures are between 14°F~122°F (-10°C~50°C).
- Install camera where relative humidity is below 95%.
- Please use the correct power source specified on the specification sheet.
- Do not expose the video and power connector to moisture and water.
- Avoid installing in areas with high magnetic and/or electrical interference.

FEATURES

- 1/3" SONY Effio-E DSP Exview II CCD
- Resolution: 700 (Color), 750 (B/W) TVL
- Lens: 2.8~12mm Auto-Iris
- Color by Day and B/W by Night
- Mechanical ICR
- IR Smart
- 42 IR LEDs, Night Vision: 110 ft.
- Minimum Illumination: 0 Lux IR LED ON
- Digital Wide Dynamic Range (DWDR)
- 3D Digital Noise Reduction (3D-DNR)
- External OSD Control on Cable
- 12V DC / 24V AC Dual Voltage
- Water Resistant IP66

PRODUCT EXTERIOR



Unit: mm



External Zoom/Focus
Adjustment

Optional Junction Box



OSD Control on cable



Optional: **CBK728**

SPECIFICATION

Pick Up Device	1/3" SONY ExView II CCD
Total Pixels	NTSC: 1028(H)x508(V) / PAL:1028(H)x596(V)
Effective Pixels	NTSC: 976(H)x494(V) / PAL:976(H)x582(V)
Resolution	700 TVL (Color), 750 TVL (B/W)
Synchronizing System	Internal
Scanning System	2:1 Interlace
S/N Ratio	52dB (AGC OFF)
Electronic Shutter	Auto 1/60 (1/50) ~ 1/100,000 sec
Min. Illumination	0 Lux (IR on)
Video Output	1.0 Vp-p / 75 ohm (BNC)
DWDR Function	ON/OFF
AGC	AGC/OFF
Flickerless	NTSC: 1/60 PAL: 1/50 (Manual: shutter/AGC)
BLC	BLC / HLC / OFF
White Balance	ATW/PUSH/User1/User2/ANTI CR/Manual/PUSH Lock
Lens	2.8 ~ 12mm
OSD Control	Button and Dry Connector
Day & Night	Auto/ Color/ B&W
IR LED	42 IR LEDs, Night Vision 110 ft.
Motion Detection	ON/OFF (24x16 Zones)
Privacy	ON/OFF (4 Zones Programmable, Mosaic)
Picture-Effect	Mirror
Picture Adjust	Brightness/ Contrast/ Sharpness/ Hue/ Gain
DNR(2DNR)	Y/C, C, Y, OFF
Camera Title	ON/OFF
Power/Max. Consumption	12V DC : 150mA , 500mA (IR on) / 24V AC
OSD Language	English/French/Spanish/Portuguese Chinese/Japanese/German/Russian

* SPECIFICATIONS SUBJECTED TO CHANGE WITHOUT PRIOR NOTICE.

OSD Menu Operation

Attention:

1. At all levels of the menu, please choose the options using 4 buttons--“← →↑↓”.
The option with the grey highlight is the currently selected option.
2. Use the button “ENTER” (press button straight down) to confirm and enter into the selected option. Generally, the options with “←” means it has submenu. Enter the submenu by press the button “ENTER”.
3. The OSD main menu have two pages, the user can flip over by using button “NEXT←” or “BACK←”.
4. Select the “SAVE ALL” to save any changed settings, and then press “ENTER”.
Otherwise it will fall back to the previous setting if the camera reboots.
The first page of the main menu is shown below:

SETUP MENU	
LENS	MANUAL
SHUTTER/AGC	AUTO ←
WHITE BAL	ATW ←
BACKLIGHT	OFF
PICT ADJUST	←
ATR	OFF
MOTION DET	ON ←

OSD OPERATION

The second page of the main menu is shown below:

SETUP MENU	
PRIVACY	OFF
DAY / NIGHT	AUTO ←
NR	←
CAMERA ID	OFF
SYNC	INT
LANGUAGE	ENGLISH
CAMERA RESET	

1. LENS

LENS	MANUAL
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“LENS” has 2 options —“MANUAL” and “AUTO”. (This camera cannot install the auto-iris lens temporarily)

1. MANUAL The default setting is manual. If the installed lens is manual one, please select this option.
2. AUTO If the installed lens is manual one, please select this option. The user can select the option by “RIGHT” or “LEFT”.

LENS	AUTO ←
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The auto lens has following parameters for the user to set; enter the setting page by using the button “ENTER”.

TYPE	DC
MODE	AUTO
SPEED	80

OSD OPERATION

【TYPE】 : It's the drive mode of auto lens (or that's lens type). It has 2 options-- DC and VIDEO. DC means direct current control of iris lenses, while VIDEO means video control of iris lenses.

【MODE】 : It has 3 options for adjusting iris--AUTO, OPEN and CLOSE. AUTO means it can automatically adjust the size of the iris according to the light around. OPEN means open the iris all the time, while CLOSE means close the iris.

【SPEED】 : It means the sensitivity of the adjustment of the iris when choosing AUTO. The setting value range is 0~255.

2.SHUTTER/AGC



It has 2 options--AUTO and MANUAL.

1. AUTO "AUTO" is the default setting. The setting page of AUTO is shown below:

AUTO SETUP	
HIGH LUMINANCE	
MODE	SHUT
BRIGHTNESS	24
LOW LUMINANCE	
MODE	AGC
BRIGHTNESS	X0.50

【SHUT】 : (The setting value range of brightness is 0~255.)

AGC (AGC / OFF)

(The setting value range of AGC brightness is X0.25, X0.50, X0.75 and X1.00.)

OSD OPERATION

2. **MANUAL** Enter into the setting page of MANUAL:

MANUAL SETUP	
MODE	SHUT+AGC
SHUTTER	1/50
AGC	6.00

【SHUTTER】 : The setting value range of SHUTTER is 1/50、1/120、1/250、1/500、1/1000、1/2000、1/4000、1/10000.

【AGC】 : The setting value range of AGC is 6.00、12.00、18.00、24.00、30.00、36.00、42.00、44.8.

3.WHITE BALANCE

WHITE BAL	ATW ←
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There are 7 kinds of white balance modes.

1. **ATW** ATW means automatic tracking white balance. In the range of 1800K~10500K, it can continually survey the color temperature for automatically adjusting white balance. This mode is the default setting. The setting menu is shown below:

ATW	
SPEED	239
DELAY CNT	016
ATW FRAME	X1.00
ENVIRONMENT	INDOOR

【SPEED】 : (The setting value range of SPEED is 0~255.)

【DELAY CNT】 : (The setting value range of Delay CNT is 0~255.)

【ATW FRAME】 : (The setting value range of ATW FRAME is X1.00、X1.50、X2.00)

【ENVIRONMENT】 : It has 2 options-- INDOOR and OUTDOOR.

OSD OPERATION

2. **PUSH** It's an auto white balance control mode. If the color temperature in the range of 2300K~10000K, it can exactly adjust white balance.
3. **USER1** It is a user-defined white balance mode 1, which is convenient for user to call. It can achieve the best effect by adjusting BLUE or RED. The setting page is shown below:

USER1 WB	
B-GAIN	030
R-GAIN	033

4. **USER2** It is a user-defined white balance mode 2, which is convenient for user to call. The setting is similar to USER1 above.
5. **ANTI CR** It is always used in the environment where there is a serious chromatic difference.
6. **MANUAL** It means adjust the white balance mode manually. It can adjust the level in the following page manually. In the specific lighting environment, it can achieve the best white balance results.

MANUAL WB	
LEVEL	034

The setting value range of Level is : 0~255

7. **PUSH LOCK** It's an auto white balance lock mode.

4. BACKLIGHT COMPENSATION

BACKLIGHT	OFF
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Backlight compensation including the following 3 options:

1. **OFF** It means close the backlight compensation function. The default setting is OFF.
2. **BLC** It means open the backlight compensation function.
3. **HLC** It means shelter from the over brightness light, such as: car license plate recognition light. HLC likes ECLP function.

5. PICTURE ADJUST

PICT ADJUST ←

Choose "Enter←" button, then enter into the picture adjusting menu. The setting page is shown below:

PICT ADJUST	
MIRROR	OFF
BRIGHTNESS	000
CONTRAST	128
SHARPNESS	128
HUE	128
GAIN	128

1. MIRROR It means mirror image the whole picture. The default setting is OFF.
2. BRIGHTNESS Adjust the entire brightness of the whole picture.
The setting value range is 0~255.
3. CONTRAST The setting value range is 0~255 ;
4. SHARPNESS The setting value range is 0~255 ;
5. HUE The setting value range is 0~255 ;
6. GAIN The setting value range is 0~255 ;

6. ATR

ATR OFF

It's similar to WDR function. While bright and dark parts are displayed on the screen simultaneously, this function can help the user see the various parts of the screen more clearly. And it can be adjusted according to different circumstance. The setting page is shown below:

ATR	
LUMINANCE	MID
CONTRAST	MID

1. LUMINANCE : It has 3 options-- HIGH、 MID and LOW ;
2. CONTRAST : It has 5 options-- HIGH、 MIDHIGH、 MID、 MIDLOW and LOW.

7.MOTION DETECTION

MOTION DET ON ←

When the moving object appears in the detection area (adjustable in the menu), the camera will display blocks when BLOCK DISPLAY is ON. The setting page is shown below:

MOTION	DET	
DETECT	SENSE	111
BLOCK	DISP	OFF
MONITOR	AREA	ON
AREA	SEL	1/4
	TOP	000
	BOTTOM	000
	LEFT	000

1. DETECT SENSE It's used for set the camera's detect sensitivity. The setting value range is 0~127.
2. BLOCK DISP It's a block display switch. If the function is on, the moving object would be traced by a flashing square grid.
3. MONITOR AREA It's a monitor area switch. If the function is on, the square grid will appear in the monitor area.
4. AREA SEL There are 4 monitor areas that can be set. And their size can be adjusted by the buttons--up, down, left and right. The default setting is 0. If the user does not adjust the area size, the square grid will not appear.

8. PRIVACY AREA SHIELD

PRIVACY OFF

The user can set privacy area on the image. If the function is on, the user can enter the setting menu. The setting page is shown below:

OSD OPERATION

PRIVACY

AREA SEL	1/8
TOP	000
BOTTOM	000
LEFT	000
RIGHT	000
COLOR	1
TRANSP	1.00
MOSAIC	OFF

- 1. AREA SEL** There are 8 zones that can be set. And their size can be adjusted by 4 buttons--up, down, left and right. The default setting is 0. If the user does not adjust the area size, the square grid will not appear.
- 2. COLOR** For every zones' color setting, the user has 8 options—red, green, blue, light green, light blue, light red, white and black.
- 3. TRANSP** The function is used for setting privacy area's transparency. There are 4 options--0.00、0.05、0.75 and 1.00 .
- 4. MOSAIC** Set the privacy area to mosaic. Notice: the privacy area will be dim if the transparency is too high. It will be clear if the setting value adjust to 0.00.

9.DAY/NIGHT MODE

The Day/Night Mode has 3 options: Auto, Color and B/W. The setting page is shown below:

DAY/NIGHT

AUTO ←

- 1. AUTO** If the setting is "Auto", the camera can transfer the mode automatically. In the daytime, the camera is in color to get perfect color; whereas, the camera is in B/W in the night. The setting page is shown below:

OSD OPERATION

DAY/NIGHT

BURST ON

DELAY CNT 010

DAY→NIGHT 003

【BURST】 : (It is a Burst switch.)

【DELAY CNT】 : (It's used for set mode conversion delay time. The setting value range is 0~255.)

【DAY→NIGHT】 : (It's used for set DAY→NIGHT transferring sensitivity. The setting value range is 0~255.)

【NIGHT←DAY】 : (It's used for set NIGHT←DAY transferring sensitivity . The setting value range is 0~255.)

1. COLOR It's used for transferring the mode to Color manually

2. B/W It's used for transferring the mode to B/W manually. If the user meets Burst interference, the user can turn off the "BURST".

B/W

BURST ON

10.NR

NR



The setting of "NR MODE" is shown below:

NR

NR MODE Y/C

Y LEVEL 004

C LEVEL 004

NR MODE The settings of "NR MODE" has 4 options—Y/C, Y, C and OFF. The settings can be adjusted by Level Y and C.

11. CAMERA ID

CAMERA ID OFF

The user can set the CAMERA ID by Menu.

CAMERA ID

CAMERA

ABCDEFGHIJKLMNOPQRSTUVWXYZ

WXYZ0123456789-!'"#\$%&'

()_` , ¥ : ; <=> ? @/^*.x+/-

The Menu has 7 sections:

1. CAMERA : There are 2 lines for inputting ID characters.

2. CHARACTER: It indicates every character's position. There are 2 groups of characters—CHR1 and CHR2. CHR1 is consisting by 26 English letters, 10 digitals and 28 specific symbols.

3. CHR1: CHR1 is consisting by 26 English letters, 10 digitals and 28 specific symbols.

4. CHR2 : CHR2 has no character temporarily.

5. ← → ↑ ↓: When input ID, please use “← → ↑ ↓” to moving the cursor. Choose one of them, and then press “ENTER”.

6. CLR It is used for Clear ID characters. Firstly, move the cursor to the ID character, which you need clear. Secondly choose “CLR”. At last, press “ENTER”. By this way, the user can clear ID character one after one.

7. POS It's used for preview ID.

12. SYNCHRONIZATION MODE

SYNC

INT

13. LANGUAGE

LANGUAGE	ENGLISH
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It has 8 languages: English, Spanish, French, Portuguese, Chinese, Japanese, German, Russian.

14. CAMERA RESET

CAMERA	RESET
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It's used for restoring to factory defaults. If parameter settings are disorder, please choose "CAMERA RESET", and then press "ENTER".

TROUBLESHOOTING

Problem	Solution
No picture or unstable video	Check video and power connection. Check power source.
The image is blurred	1. Check if the glass is dirty. Use lens cleaning cloth or cotton balls soaked with alcohol to clean. 2. Adjust the focus/zoom knobs.
The image is dim	Adjust the CNT of monitor and iris.
No motion detection frame and privacy shaded frame	Check and OSD menu parameters and turn on motion detection option.
Screen color cast in the special environment	Adjust WEB mode or change the direction the camera is facing.
Screen glittering	Turn the camera away from the sun, TV set or computer monitor.
OSD settings abnormal	Set the OSD back to factory default.
Camera surface overheats or has peculiar smell, smoke, etc.	Please cut off the power to the camera immediately. Check the power source. Send the camera to your vendor for repair.

For More Product Information,
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