

TP-HDF5

PRODUCT MANUAL

2.1MP 1080p Full HD
Bullet Camera



Please read this manual carefully before installation.

VER. 1.1 2013

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

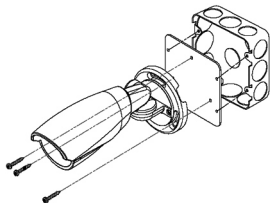
- Do not attempt to disassemble the camera. Any modification to the construction of this camera will void the warranty.
- Do not subject the camera to extreme shocks.
- Never point the camera toward the sun. Install the camera under conditions where temperatures are between 14°F~122°F (-10°C~50°C).
- 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

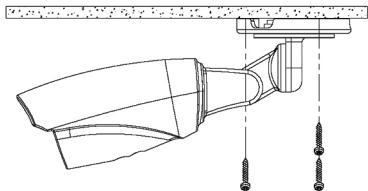
- 1/2.7" 2.1MP CMOS Sensor
- 1080p (1920x1080) @ 30fps
- Lens: 4mm
- Color by Day and B/W by Night
- 14 IR LEDs, Night Vision: up to 150 ft.
- Minimum Illumination: 0 Lux IR LED ON
- 3D Digital Noise Reduction (3D-DNR)
- External OSD Control on Cable
- 12V DC, 600mA max.
- Water Resistant IP66
- 3-axis adjustable mounting bracket
- Sturdy Zinc Alloy Vandal Proof

INSTALLATION

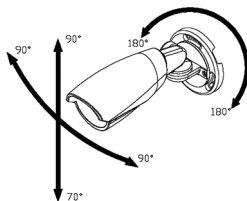
Wall Mount



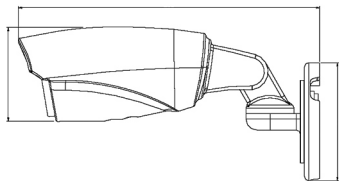
Ceiling Mount



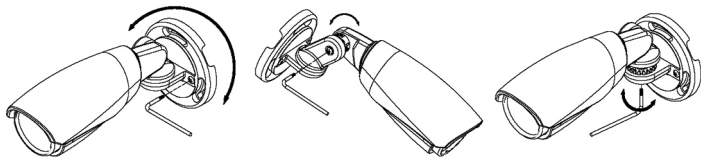
Rotational Limits



Dimensions

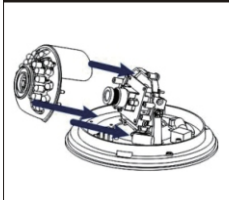


⚠ CAUTION: Do not loosen the screw completely. Loosen just enough to allow for movement. Each notch in the cog adjust the position by 18°.



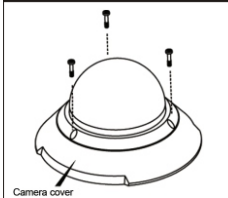
INSTALLATION

STEP 6



- 1 Plug back in the IR module.

STEP 7



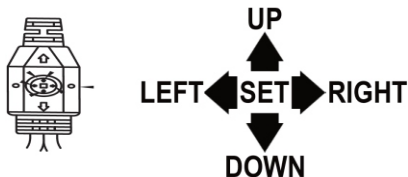
- 1 Align the marks of black mount plate and camera cover, then tighten the vandal screws as shown in Step 7.

SPECIFICATIONS

Image Sensor	1/2.7" 2.1MP CMOS Sensor
Scanning System	Progressive Scan
Resolution	2.1 MegaPixel 1080p, 1920x1080 (30fps)
Sensitivity (F1.2)	1.0 Lux (0 Lux with IR ON)
Lens	3.6 4.0mm
Effective Pixels (HxV)	1944(H)x1920(V)
S/N Ratio	More than 50dB
Synchronization	Internal
Video Output (BNC Type)	HD-SDI: 1.485G/s (SMPTE292M), 1.0Vpp-75 Ω
Gamma Correction	0.45
Day/Night	Auto Only
OSD	Built-in, Controls on cable
Defog	On/Off (Fog or Rain)
Gain Control	Off/Low/Mid/High
White Balance	ATW/AWC-->Set/Indoor/Outdoor/Manual
Back Light Compensation	Off/BLC/HSBLC
Shutter	1/30 / 1/60 (1/50) / FLK / 1/250...1/50000 / x2/x3/Auto
IR LEDs & Illumination	14 IR LEDs, Night Vision up to 150 ft.
Privacy Function	8
IP Rating	IP66
Operating Environment	14°F ~ 113°F (-10°C ~ 45°C), 95%RH
Power Supply	DC 12V (±10%)
Power Consumption	IR OFF: 250mA Max, IR ON: 600mA Max.
Dimension LxWxH	2.84" x 3.35" x 8.59 , 67 x 85 x 218 mm
Net Weight	1.87 lbs , 850g
IR LED	850nm*14

* Specifications subject to change without prior notice.

OSD Menu Operation



LENS	• DC • MANUAL •
EXPOSURE	• SHUTTER • AGC • SENS-UP • BRIGHTNESS • ACCE • DEFOG • BACKLIGHT • RETURN
WHITE BAL	• ATW • AWC • SET • INDOOR • OUTDOOR •
DAY&NIGHT	MANUAL
NR	• AUTO • COLOR • B/W
SPECIAL	• 2NR • 3NR • LEVEL • SMART NR • RETURN • CAM TILE • FREEZE • MOTION • PRIVACY
ADJUST	• SHARPNESS • MONITOR • OSD • LSC • NTSC/PAL • RETURN
RESET	• FACTORY • RETURN
EXIT	

Note

RETURN:

- ▶RET(RETURN): Select this to save the setting for this menu and return to the upper menu.
- ▶END: Select this to save the setting for this menu and exit the SETUP menu.

LENS

- **DC:** Select Auto Iris Lens

When DC is selected, you can control the screen's brightness. The brightness range is between 0 and 100 (45 in WDR mode). Adjust the brightness appropriately for optimal screen brightness.

- **Manual:** Select Manual lens

Note

- ▶ Some lenses may not work properly, depending on the setting of the BRIGHTNESS LEVEL.
- ▶ It may not work properly depending on the installed lens. Set the level of the lens to the optimal value.

EXPOSURE

- SHUTTER: 1/30, FLK, 1/250, 1/500, 1/1000, 1/2000, 1/5000, 1/10000, 1/50000, x2, x3, AUTO.
- AGC: LOW, MIDDLE, HIGH
- SENSE-UP: x2, x3, (In "AUTO" mode)
- BRIGHTNESS: 1~100
- ACCE (D-WDR): OFF/LOW/MIDDLE/HIGH
- DEFOG: DEFOG or Rain
- BACKLIGHT: OFF, BLC, HBLC
 - BLC: Enables users to directly select a desired area from a picture, and enhance the image quality of the selected area.
 - > GAIN: MIDDLE, HIGH, LOW
 - > AREA: Select POSITION, SIZE, RET, AGAIN
 - > DEFAULT: Reset the BLC setting to the factory default.
 - > RETURN: (RET/END)

- HSBLC: If there is a high light installed in a low-light environment such as an underground parking garage or gas station entrance, removing the high light makes it possible to view car license plates efficiently.
- > SELECT: AREA1 ~ AREA4
- > LEVEL: 0 ~ 100
- > MODE: ALL DAY / NIGHT
- > BLACK MASK: ON/OFF
- > DEFAULT: Reset the HSBLC setting to the factory defaults.
- > RETURN: (RET/END)
- RETURN: (RET/END)

WHITE BAL.(WHITE BALANCE)

- ATW: 1800°K ~ 10500°K
- AWC→SET: When shooting on a white background, push SET button.
- INDOOR: 4500°K ~ 8500°K
- OUTDOOR: 1800°K ~ 10500°K
- MANUAL: Select this to fine-tune White Balance manually. Set White Balance first by using the ATW or AWC mode. After that, switch to 'MANUAL' mode, fine-tune the White Balance and then press 'SET' button.

DAY NIGHT

- AUTO: Non-functional when using IR LED with Sensor.
- DELAY: 0~60 SECONDS
- D->N(AGC) : 0~100
- N->D(AGC) : 0~100
- COLOR: Video images always displayed in color.

- B/W: Video images always displayed in black and white.
- BURST: (ON/OFF)
- IR SMART: OFF/ON
- > LEVEL: 0~15
- > AREA: Use ,↑,↓,←,→ to adjust POSITION and SIZE.
- > IR LED: ON/OFF
- > IR PWM: 0~15
- > RETURN: RET/END

NR

- 2 DNR: OFF/ON
- 3 DNR: OFF/ON
- OFF: Deactivates DNR function. Noise is not reduced
- ON: Activates the DNR, so that noise is reduced
- Press 'SET' button to adjust the noise reduction level.
- > S-LEVEL: 0~100
- > E-LEVEL: 0~100
- LEVEL: 0~100
- SMART NR: OFF/ON (SMART NR active where 3DNR level>40)
- RETURN:(RET/END)

SPECIAL

- CAM TITLE: When entering a camera title, it will appear on display.
 - OFF: No title will be displayed on the monitor even if you enter one.
 - ON: Press 'SET' button to go into the menu.
- Use the 4 directional button to move to a desired letter and select the letter by pressing the SET button. Repeat this to enter multiple letters. You can enter up to 15 letter.

To enter a title, move the cursor to "POS" and press 'SET' button. The entered title appears on the screen. Select the position to displayed the title on the screen by using the 4 directional button and press the SET button. When the position is determined, select "END" and press the SET button to return to the SPECIAL menu.

ABCDEFGHIJK
LMNOPQRSTU
VWXYZ ► ()
- _ ■ / = & : ~ , .
1 2 3 4 5 6 7 8 9
→ ← CLR POS END

Note

► If you move the cursor to CLR and press the SET button, all the letters are deleted. To edit a letter, change the cursor to the bottom left arrow and press the SET button. Move the cursor over the letter to be edited, move the cursor to the letter to be inserted and then press the SET button.

- D-EFFECT: Select this to adjust the image
 - FREEZE: OFF/ON
 - MIRROR: OFF/MIRROR/V-FLIP/ROTATE
 - D-ZOOM: x2.0~64.0. (Analog video displays no picture when D-Zoom ON)
 - > PIP: ON/OFF
 - > D-ZOOM: x2.0~64.0
 - > PAN&TILT: PIP/D-ZOOM
 - NEG. IMAGE: Creates a negative image effect
 - RETURN: (RET/END)

- **MOTION:** If you connect an alarm device to this camera, you can monitor activity more efficiently, because a signal is generated by the camera whenever a motion detection signal is output through the MD OUT port

- **SELECT:** You can select up to 3 areas

- **DISPLAY:(OFF/ON)** You can use ↑,↓,←,→to adjust POSITION and SIZE

SENSITIVITY: 0~60

- **MOTION VIEW:** ON/OFF

- **DEFAULT:** Reset the motion setting to the factory default settings

- **RETURN:(RET/END)**

- **PRIVACY:** Hide any selected area on display screen

- **SELECT:** You can select up to 8 areas

- **DISPLAY:** Determines whether to use the area selected. You can use ↑,↓,←,→to adjust POSITION and SIZE

- **COLOR:** Determines area color. You can select 16 kinds of color

- **DEFAULT:** Reset the privacy setting to the factory default settings

- **RETURN: (RET/END)**

- **LANGUAGE:** You can select the menu language according to your requirement.(ENG/JPN/CH1)

- **DEFECT:**

- **LIVE DPC:** Dead pixel compensation on live

- **LEVEL:** 0~60

- **STATIC DPC:** Dead pixel compensation on static

- **START:** Close the lens then press the enter key

- **LEVEL:** 0~60

- **SENS-UP:** When it is night or dark, the camera automatically detects the light level and maintains a clear picture if this mode is activated

Note

- ▶ If you press the SET button in "x2" or "x3" mode, you can adjust the brightness by increasing or decreasing the shutter speed (x2~x3).
- ▶ Note that the higher the zoom level, the brighter the screen, but the more likely it is that an after-image will appear.
- ▶ It is normal to have 'noise, spots and whitish effects' when the zoom level is increase in 'SENSE-UP' operation.

- RETURN: (RET/END)
- RS485: (Communication adjust menu)
This function sets up the camera communication status when controlling the camera through an external control device
- CAM ID: 0~255
- ID DISPLAY: Displays camera ID on the screen
- BAND RATE: 2400/4800/9600/19200/38400 bps
- RETURN: (RET/END)
- VERSION: 000000
- RETURN: (RET/END)

ADJUST

- SHARPNESS: As you increase this value, the picture outlines become stronger and clearer. Adjust this appropriately depending on the sharpness of the picture
- MONITOR: LCD/CRT monitor
- LCD MONITOR:
 - > GAMMA: USER/0.45/0.50/0.60/0.65/0.70/0.75/0.80/0.85/0.90/0.95 /1.00 value
 - > BLUE GAIN: 0~100
 - > RED GAIN: 0~100
 - > RETURN: (RET/END)

- CRT MONITOR:
 - > BLACK LEVEL: -30~+30
 - > BLUE GAIN: 0~100
 - > RED GAIN: 0~100
 - > RETURN: (RET/END)
- OSD:
 - TEXT COLOR: Select 0 to 8 for text color
 - OUTLINE: ON/OFF
 - RETURN: (RET/END)
- LSC: (Lens Shielding Compensation)
- NTSC/PAL: Select NTSC/PAL system
- RETURN: (RET/END)

RESET

- FACTORY: Reset the camera settings to the factory default.
- RETURN: (RET/END)

EXIT

Press the SET button into the EXIT menu to save the current setting and exit the SET menu.

For More Product Information,
Please Visit Us at www.amebacctv.com
Ameba Technology Inc.