

TP-HDF3

PRODUCT MANUAL

**2.1MP 1080p Full HD IR
Vandal Dome Camera**



Please read this manual carefully before installation.

VER. 1.0 2013

MAIN FEATURES

❶3-Axis Bracket

Support can rotate separately in the XYZ-axis
vandal-proof design.

❷21 IR LED

Equipped with 21 high intensity infrared LEDs.

❸Power Supply Design

Power supply board provides DC 12V input.

CAUTIONS

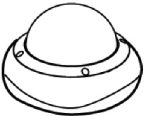






- ❶ To avoid damage to the circuitry, do not adjust lens in a wet environment.
- ❷ Do not install the camera next to another light source, as this may cause bright light reflection.
- ❸ When assembly is complete, check that all screws in the unit are properly secured.
- ❹ The 21-IR turns on in 3 stages (7/14/21 LEDs) and this is normal.

NOTE

OUTDOOR:SHUTTER→Auto

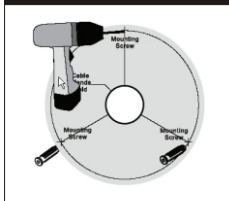
INDOOR:SHUTTER→1/30

ITEMS INCLUDED

Camera Unit	User Manual	Positioning Sticker
		
Wrench	Plastic Wall Anchor	Mounting Screws
		
O-rings		
		

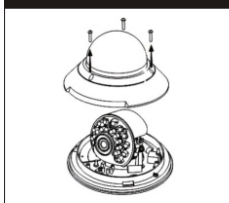
INSTALLATION

STEP 1



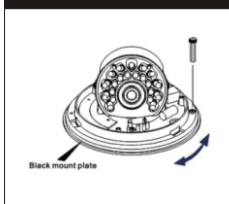
- 1 Attach Positioning Sticker (P3/No.3) to the wall.
- 2 Drill holes as indicated and attach plastic wall anchors (P2/No.5).

STEP 2



- 1 Use the wrench (P2/No.5) and remove the screw from the dome cover.
- 2 Open the cover.

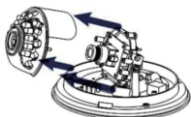
STEP 3



- 1 Rotate to the desired angle and tighten the screws.

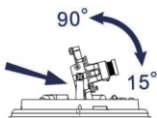
INSTALLATION

STEP 4

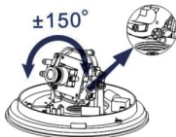


- 1 Open the IR module and adjust the lens, if necessary.

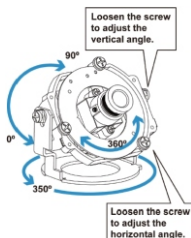
STEP 5



- 1 Loosen the screws to adjust camera's direction between 15° to 90° vertical angles..



- 2 Loosen the screws to adjust horizontal angle, within +/-150° range.

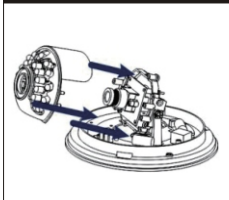


- 3 Maximum rotational range is 350. Tighten the screws when done.

- ◆ Caution: Do not rotate the camera 360, as it may be separated.

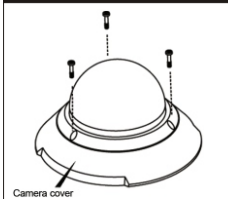
INSTALLATION

STEP 6



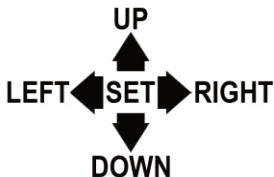
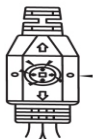
- 1 Plug back in the IR module.

STEP 7



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

SETUP MENU



SPECIFICATIONS

MODEL NO.	TP-HDF3
IMAGE SENSOR	1/2.7" 2.1MP CMOS Sensor
SCANNING SYSTEM	PROGRESSIVE SCAN
RESOLUTION	2.1Megapixel 1080p,1920*1080(30FPS)
LENS TYPE	3.6mm
SENSITIVITY (F1.2)	1.0 Lux
EFFECTIVE PIXELS	1944(H)*1092(V)
S/N RATIO	More than 50dB
SYNCHRONIZATION	Internal
GAMMA CORRECTION	0.45
DEFOG	ON/OFF(FOG OR RAIN)
ELECTRONIC SHUTTER	1/30/ 1/60(1/50) / FLK / 1/250~1/50,000
O.S.D. LANGUAGE	ENG/JPN/CHN1/CHN2
GAIN CONTROL	OFF/LOW/MID/HIGH/
3DNR	ON/OFF
MOTION DETECTION	3 AREAS
PRIVACY	8 AREAS
MIRROR (H-REV)	OFF/MIRROR/V-FLIP/ROTATE
SHARPNESS	Level Adjustable
D&N SELECTION	AUTO/COLOR/B&W/EXT(ICR)
BLEMISH COMPENSATION	OSD Control
VIDEO OUTPUT (BNC Type)	HD-SDI:1.485G/S(SMPTE292M)1.0Vpp-75Ω
POWER SUPPLY	DC 12V
POWER CONSUMPTION	IF OFF:300mA(MAX)/IR ON:500mA(MAX)
WHITE BALANCE	ATW/AWC→SET/INDOOR/OUTDOOR/MANUAL
BACK LIGHT COMPENSATION	OFF/BLC/HBLC(Selectable)
IR LED	21 IR LED
DIMENSION	5.43"x5.43"x3.11"(138x138x 79mm)
NET WEIGHT	1.39lbs(630g)
STORAGE TEMPERATURE	-22°F~-140°F(-30°C~+60°C)
OPERATING TEMPERATURE	-10°F~-113°F(-10°C~+45°C)

** Specifications subject to change without prior notice.*

SETUP MENU

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 ~ 10500°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.