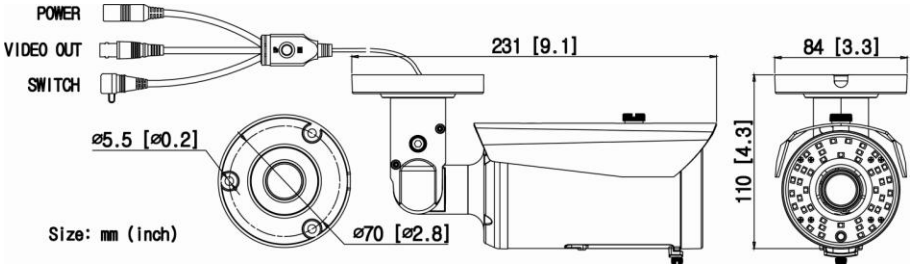
License Plate Capture Camera

- **ITEM №: HLPR1TW**

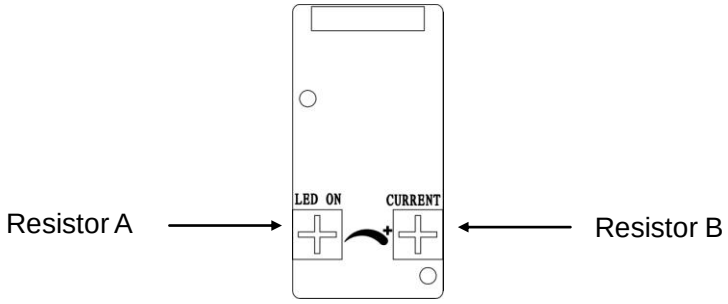


- **Adjustable function**

1. Resistor A: If you want to change the working time of IR Led, please open the cover at the bottom of the camera(As showed in the following picture), you can adjust the IR LED working time. Anticlockwise refers to the IR LED will start working under the darker situation. clockwise refers to the IR LED will start working under the brighter situation.

2. Resistor B: If you want to change the intensity of the IR light, please open the cover at the bottom of the camera(As showed in the following picture), you can adjust the IR light intensity.

When you feel EXPOSURE on the plate, please lower down IR intensity; when you feel DARK on the plate, please increase IR intensity, IR intensity please refer to picture shown。



- **Packing**

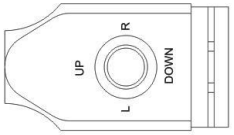
* Camera	X1	* Hexagonal Wrench	X1
* User Manual	X1	* Mounting drawing paper	X1
* Screw	X3	* Junction Box	X1
* Plastic-Conical-Anchor	X3	* Power Cable Connector	X1
* Junction box(including accessories)	X1		

- **Specification**

ITEM	HLPR1TW
IP Rating	IP66
Type	Color/Monochrome
Signal System	NTSC/PAL
Pick Up Device	1/2.9" 2.2 Mega Pixels CMOS
Picture Elements	1920(H)X1080(V)
Min Illumination	0Lux（42 Pieces IR LED ON）
S/N Ratio	≥52dB
Lens	9-22mm Motorized Varifocal Auto iris IR Lens
Mph	28 miles/h
3D/2D	ON
SENS-UP	OFF
IR SMART	ON
White Balance	ATW
Back Light Compensation	OFF
DWDR	OFF
Video Out-put	HD-TVI/HD-AHD/HD-CVI/CVBS
Power Supply	DC12V ±10%/AC24V±10%
Current Consumption	DC:580mA/AC250mA (Max)
IR Effect Distance	2~15m（6.56~49.18ft）(Outdoor)
Dimension	231×84X110mm (9.1”×3.3”×4.3”)
Weight	1260g/2.78pounds (Including Junction Box)
Storage Temperature	-30～+60℃(-22～+140℉)
Operating Temperature	-30～+40℃(-22～+104℉)

Remark: Non-regulative adaptor may cause camera damaged.

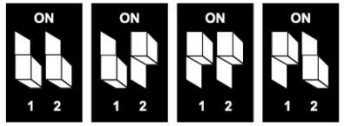
- **Use the OSD joystick to switch the camera to:**



OSD Cable

1. “L” for left direction
2. “R” for right direction
3. “UP” for upwards direction
4. “DOWN” for downwards direction
5. Press the button for OSD menu

- **video signal output switches**



- **TVI DVR Coaxial Signal Control and Auto Focus Lens**

1) Menu

As shown in Picture:

A.shows the up, down, left and right direction of the menu;

B. shows the enter/confirm button of the menu

2) Lens Auto Focus

shows lens focus (Near/Far) of the Auto focus lens, and (4) shows Zoom(wide/tele) of the AUTO focus lens. When Keep pressing “Focus” or “Zoom” buttons, the lens will keep moving, only after “Focus” or “Zoom” button without pressing, the lens will focus automatically.



MAIN MENU

MAIN MENU	
1. LENS	DC
2. EXPOSURE	↵
3. BACKLIGHT	OFF
4. WHITE BAL	ATW
5. DAY&NIGHT	EXT↵
6. NR	↵
7. SPECIAL	↵
8. ADJUST	↵
9. AF	↵
10. EXIT	SAVE&END↵

1	LENS	MANUAL/DC#
2	EXPOSURE	#
3	BACKLIGHT	OFF/BLC#/HSBLC#
4	WHITE BAL	ATW/AWB/AWC-SET/INDOOR/OUTDOOR/ MANUAL#
5	DAY&NIGHT	AUTO#/COLOR/B/W#/EXT#
6	NR	#
7	SPECIAL	#
8	ADJUST	#
9	AF	#
10	EXIT	SAVE&END#/RESET#/NOT SAVE#

LENS

DC LENS MODE	
1. MODE	INDOOR
2. IRIS SPEED	8
3. RETURN	RET↵

1	MODE	INDOOR/OUTDOOR#
2	IRIS SPEED	0-15
3	RETURN	RET#

EXPOSURE

EXPOSURE	
1. SHUTTER	AUTO
2. AGC	7
3. SENS-UP	AUTO↵
4. BRIGHTNESS	56
5. D-WDR	OFF
6. DEFOG	OFF
7. RETURNL	RET↵

1	SHUTTER	AUTO/ 1/30 / 1/60 / FLK / 1/240 / 1/480 / 1/1000 / 1/2000 / 1/5000 / 1/10000 / 1/50000 / X2 / X4 / X6 / X8 / X10 / X15 / X20 / X25 / X30
2	AGC	0-15
3	SENS-UP	AUTO#
4	BRIGHTNESS	1-100
5	D-WDR	OFF/AUTO/ON#
6	DEFOG	OFF/AUTO#
7	RETURN	RET#

BACKLIGHT

BLC	
1. LEVEL	MIDDLE
2. AREA	↵
3. DEFAULT	↵
4. RETURN	RET↵

1	LEVEL	MIDDLE/LOW/HIGH
2	AREA	POSITION/SIZE/RET AGAIN
3	DEFAULT	#
4	RETURN	RET#

DAY&NIGHT

B/W	
1. BURST	OFF
2. IR SMART	OFF
3. RETURN	RET↵

1	BURST	OFF/ON
2	IR SMART	OFF/ON#
3	RETURN	RET#

NR

NR	
1. 2DNR	MIDDLE
2. 3DNR	MIDDLE
3. RETURN	RET↵

1	2DNR	HIGH/MIDDLE/LOW/OFF
2	3DNR	HIGH/MIDDLE/LOW/OFF
3	RETURN	RET#

SPECIAL

SPECIAL	
1. CAM TITLE	ON↵
2. D-EFFECT	↵
3. MOTION	OFF
4. PRIVACY	OFF
5. LANGUAGE	ENG↵
6. DEFECT	↵
7. RS485	↵
8. RETURN	RET↵

1	CAM TITLE	OFF/ON#
2	D-EFFECT	FREEZE/MIRROR/NEG.IMAGE/RETURN
3	MOTION	OFF/ON#
4	PRIVACY	OFF/ON#
5	LANGUAGE	ENG#/CHN1#/CHN2#/GER#/FRA#/ITA#/SPA#/ POL#/RUS#/POR#/NED#/TUR#/KOR#/JPN#/ HEB#/ARB#
6	DEFECT	#
7	RS485	#
8	RETUTN	RET#

ADJUST

ADJUST	
1. SHARPNESS	AUTO↵
2. MONITOR	LCD↵
3. LSC	ON
4. VIDEO OUT	PAL
5. RETURN	RET↵

1	SHARPNESS	OFF/AUTO#
2	MONITOR	LCD#/CRT#
3	LSC	OFF/ON
4	VIDEO OUT	NISC/PAL
5	RETURN	RET#

AF

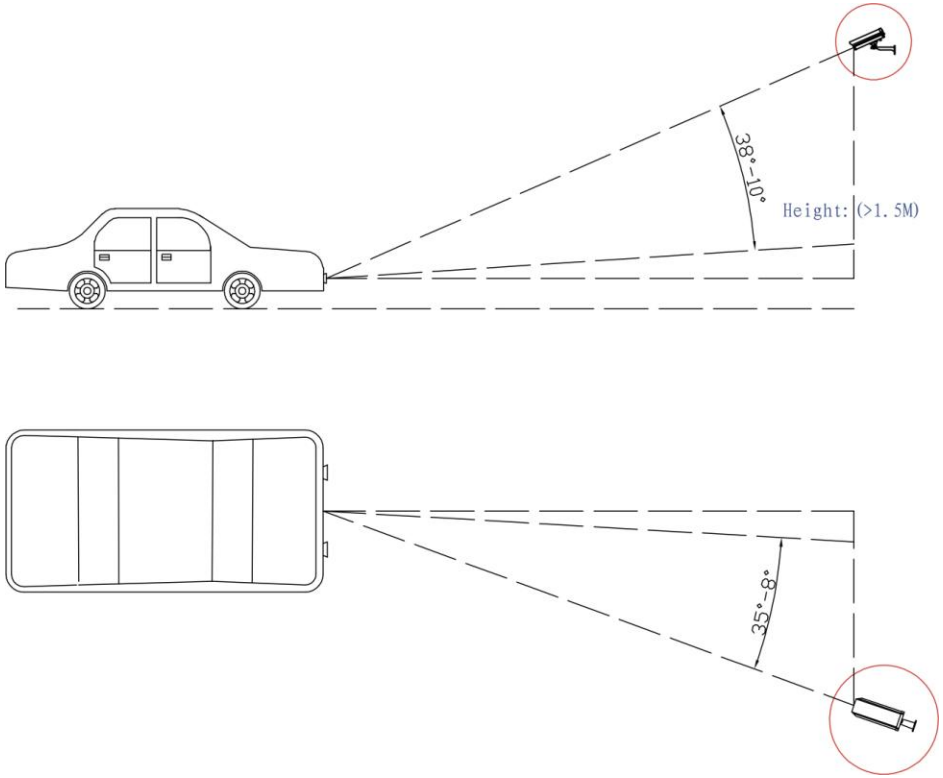
AF	
1. AF MODE	SEMI
2. ONE SHOT AF	↵
3. TDN AF	ON
4. LENS INIT	↵
5. RETURN	RET↵

1	AF MODE	SEMI/AUTO/MANUAL
2	ONE SHOT AF	#
3	TDN AF	OFF/ON
4	LENS INIT	#
5	RETURN	RET#

● Caution for Installation

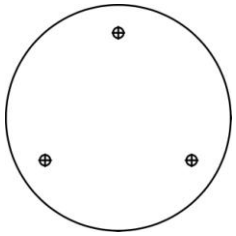
1. Please do not install the camera where the vibration always happens, or the camera will be damaged.
1. Please keep the glass in front of the camera clean. Do not touch it directly. You can use a soft cloth with alcohol to wipe if necessary.
2. The available IR range of this camera is shown in the specification. Please be sure to place the camera in the working distance when it works.
3. In order to prevent short circuit, please do not loosen any screws in the camera at random.
4. Please do not let the camera work in the conditions which is beyond the most extreme and demanding of operating conditions and climates shown in the specification. When any abnormalities happen, please turn off the camera and contact your local dealer or us right away.

Pay attention to the setting angle. The picture in the right is for your reference.



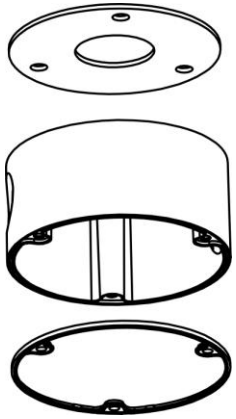
Installation Guide

(1)



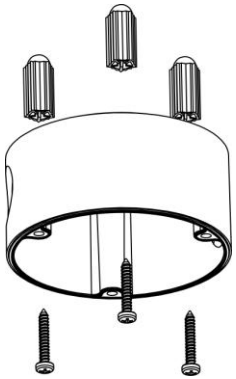
Drill Holes according to the position drawing paper and plug into the rubbers

(2)



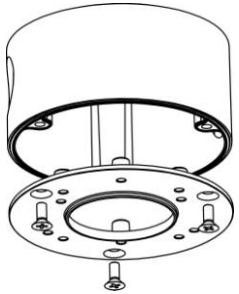
Paste the cotton pad on the bottom of junction box, place the water proof rubber ring on the top of the junction box body.

(3)



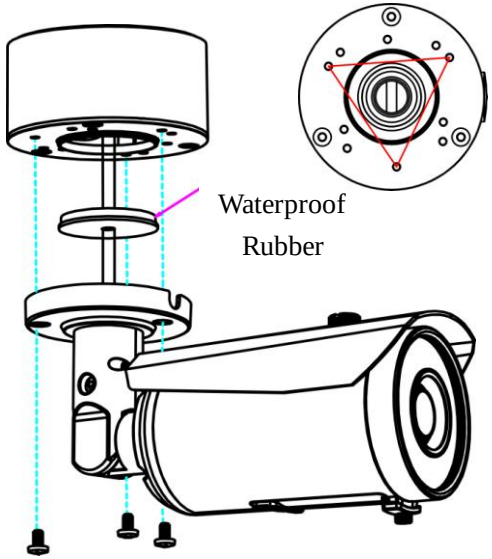
Use 3pcs PWA4*25 self-tapping screws to fix the junction box body.

(4)



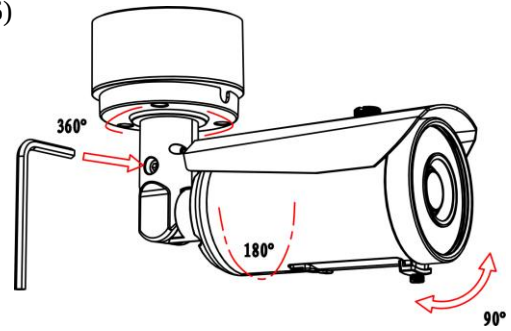
Use 3pcs KM4*10 machine Screws to fix the round plate on the junction box body.

(5)



Connect all cable connectors, make the water proof rubber go through the tail of video and power cables;
Put all cables into the junction box body;
Use 3pcs PM4*8 machine screws to fix the camera on the round plate.

(6)



Use allen wrench to loosen the screw on the bullet bracket as picture shown;
Adjust the viewing angle you need, then fasten the screw.

Noting: You can rotate 3 directions freely as picture shown.