SDI 1080P Shuttle & License Plate Camera

Serial Digital Interface

CHLP120IR-SDI

- *1/2.8" COLOR SDI High Definition*
- *1080P Full HD, 0 Lux, ICR, IR cut Filter.*
- *Slow Shutter (Sense Speed 32X)*
- *224 High Power Intensity LED, 300 Feet.*
- *10-120mm Auto Iris 2.0 Megapixels IR Lens*
- *Dual CDS, front CDS is High Resolution camera, back CDS is License Plate Camera*
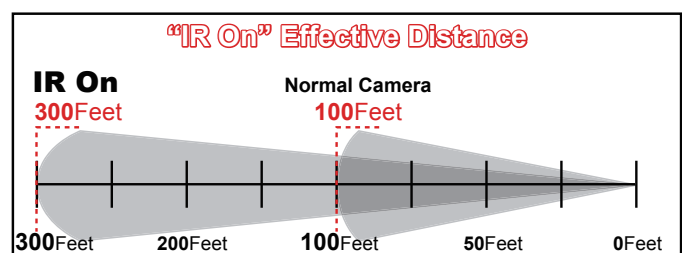- *10 dipswitch control, Bracket included*
- *Dual Power DC12V 4A /AC24V 60VA*

Warning

ON	SDI High Definition Camera	The DIP Switch
OFF	License Plate Camera	NO.10

MENU → LENS → AUTO → EXP → AIS → SHUTTER

	Shutter speed select		
	License Plate		
0	OFF	20 Miles	30 KM
1	A.FLK	40 Miles	60 KM
2	1/160 sec.	50 Miles	80 KM
3	1/250 sec.	65 Miles	100 KM
4	1/500 sec.	80 Miles	130 KM
5	1/700 sec.	90 Miles	160 KM
6	1/1000 sec.	110 Miles	180 KM
7	1/1600 sec.	120 Miles	200 KM
8	1/2500 sec.	140 Miles	230 KM

"IR On" Effective Distance

IR On
300 Feet

Normal Camera
100 Feet

300 Feet | 200 Feet | 100 Feet | 50 Feet | 0 Feet

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* Specifications are subject to change without notice   ** Designed in U.S.A.

RS485 Housing Control (Box camera)
User's Manual

注　意

RISK OF ELECTRIC
SHOCK.DO NOT OPEN

Notice

　　To reduce the risk of electric shock, please do not disassemble by yourself, it should be repaired by a qualified technician.

The lightning arrow symbol reminds users that there is dangerous voltage nearby, enough for a body to produce an electric shock and cause bodily harm.

The caution symbol, reminds users to pay close attention to the relevant instructions during the operation and maintenance of the product.

Please fill in the product model and manufacturing number. This information will assist you in the future should you need to refer to it for service or repair.

Model:
Number:

Important Safety Precautions

1、Before installation, please read the manual, and keep this guide for future reference.

2、Please comply with all warnings on the device and follow the instructions carefully.

3、 Please wipe or clean the device before connecting the device to power, and please do not use liquid/spray cleaning agents.

4、Please used our recommended factory parts when in need of repair, otherwise, failure may occur.

5、The device should use the recommended power and voltage from the manual. If the power and voltage of the installation site is unclear, please contact us for further assistance.

6、 Protect the power cord, especially along the plug and camera data lines. Do not submerge in water or any liquids.

7、 To prevent lightning surge damage, please install surge protectors.

8、 To prevent fire and electric shock, please do not over-extend the data lines or allow foreign substances into the machine which may cause dangerous corrosion.

9、Do not install in areas that have unstable brackets, walls, roofs, etc. Otherwise, it may result in bodily harm.

10、Please contact your dealer should you have the following

issues:

10.1 Wrong power supply or voltage.

10.2 Damaged housing unit.

10.3 Abnormal behavior with device performance.

10.4 After consulting the user manual and it still does not operate.

11、When part replacement is needed, please contact your dealer so we can provide approved parts to maintain the same performance.

I. Summary

The integrated shell uses an all-metal construction, the compatible color camera is protected and is for outdoor and indoor equipped with light compensation at night。The unit has a waterproof grade of IP66, uses EIA/RS-485 connections for remote control, has internal and external infrared compensation light for both near and far distances. The unit also is set automatically to have infrared light at night.

II. Features

1、AC24V or DC12V compatible

2. When using DC12V, use FPC flexible connect lines;

3、When connecting integrated devices, a wire control function is available for convenience.

4、The unit is set at default with a range address of:0-255, baud rate is 2400, Pelco-D protocol;

5、 Dual power supply input, input voltage DC12V±10%/AC24V±10%;

6、Photo Sensor can be adjusted on four levels,

front or back settings may be chosen;

7、Double-sided infrared is 15° distance more than 120M/394ft, power is 15W, internal infrared is 45°,5W, both near and far

infrared radiation;

8、All-metal construction is strong and durable, with IP66 Grade.
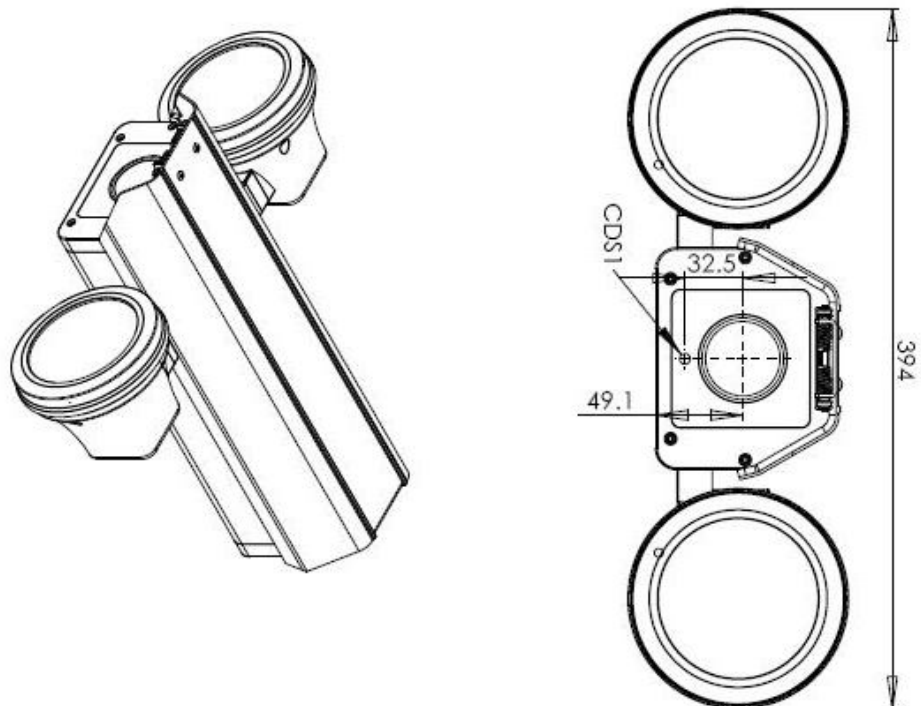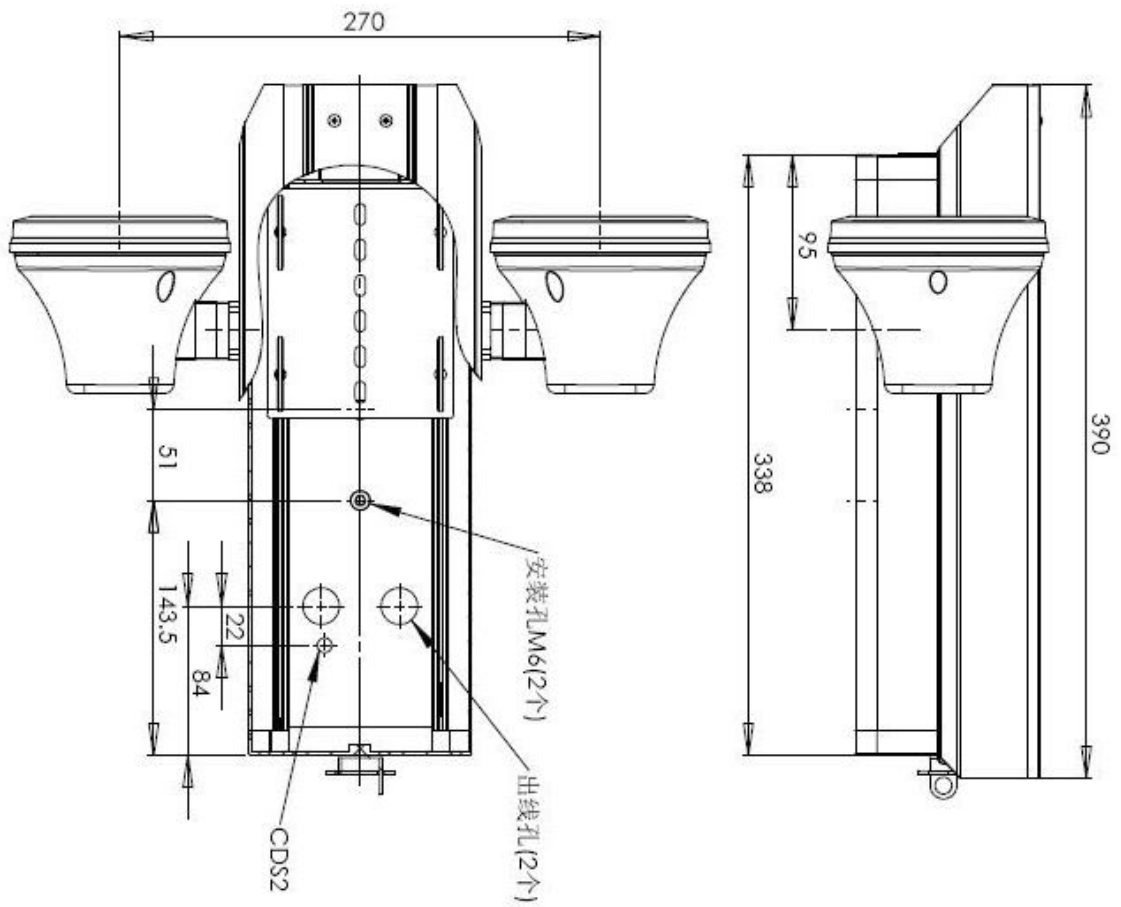
9、Unit can use RS485 control, 120Ω Resistor;

10、IR Lights are optically triggered by camera

11、Preset positions up to 32;

12、Has automatic on/off Infrared Control;

13、Manual Settings to open or close;

III. Product Size Chart

安装孔LM6(2个)

出线孔(2个)

CDS2

270

51

143.5

22

84

95

338

390

CDS1

32.5

49.1

394

IV. Socket Function

1、Camera control board layout

1.1 BK1：DIP switch

   1.1.1 1—8 address code，binary representation，ON is 1，OFF is 0, from 8 to 1 reading:

   If 1 is set ON, all other set off, is 00000001,that is decimal 1.

   f 2 is set ON, all other set off, is 00000010,that is decimal 2.

   And so on, the largest that is decimal 11111111，that is decimal 255.

   1.1.2 The 9th is RS485 120Ω resistance select switch,

   1.1.3 The 10th is Photo Sensor switch,

set ON for the Photo Sensor in the Front, set OFF for the Photo Sensor in the Back

1.1 S1:Photo Sensor sensitivity has four Settings:
(00):1lux, (01):2lux, (02):4lux, (03):10lux

1.2 S3：D/N signal voltage output select, low level, 3.3V option

1.3 J1：DC12V output，suitable DV12V box camera power supply.

1.4 J2：System program interface

1.5 J3： Photo Sensor input interface

1.6 J4：Box camera menu control output

　　D:down;U：up;E：MENU/confirm;R：right;L：left

1.7 J5：Output signal day and night,for day and night camera with external input control interface. this interface is available when infrared light and the camera's synchronizes. CTL:According to the choice of S2 to output high level, low level

1.8 J6：DC12V power supply input，The interface board access DC12v voltage from the power supply as the control panel input voltage。 （connect power supply J3）

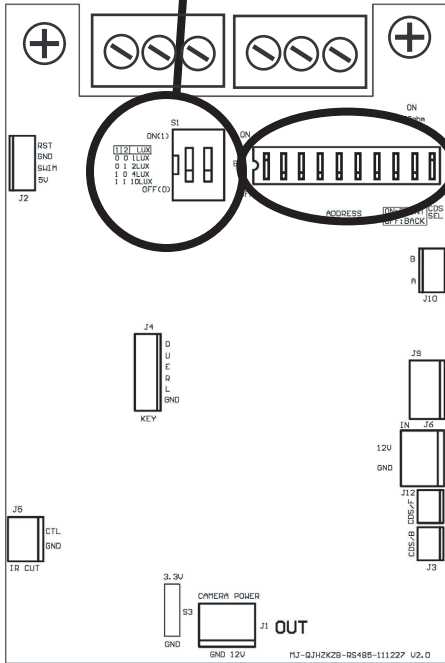1.9 J9：Board connector socket, make video signal and relay control signal output to the power board(connect power board J8).1.10 J10：Board connect socket, RS485 control signal(connect power board J7).

1.11 J12： Front Photo sensor Signal input interface
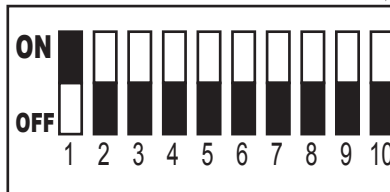
LUX Adjustment Dipswitches
for Both front and back CDS

OFF-OFF 1LUX
OFF-ON   2LUX
ON -OFF 3LUX
ON -ON   4LUX

Camera ID Dipswitches
and CDS selection (Front or Back)

ON	SDI High Definition Camera	The DIP Switch
OFF	License Plate Camera	NO.10

MENU → LENS→AUTO
→ EXP→AIS →SHUTTER

Shutter speed select			
License Plate			
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IR light adjustment dial
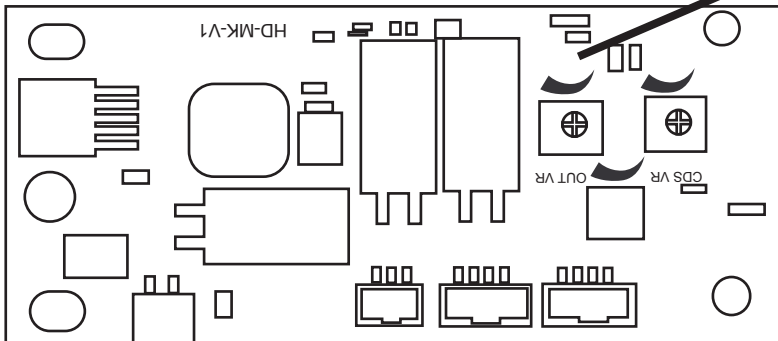
2、**Power Board Socket Diagram**

MJ-WZDHZDYB-111125 V2.0
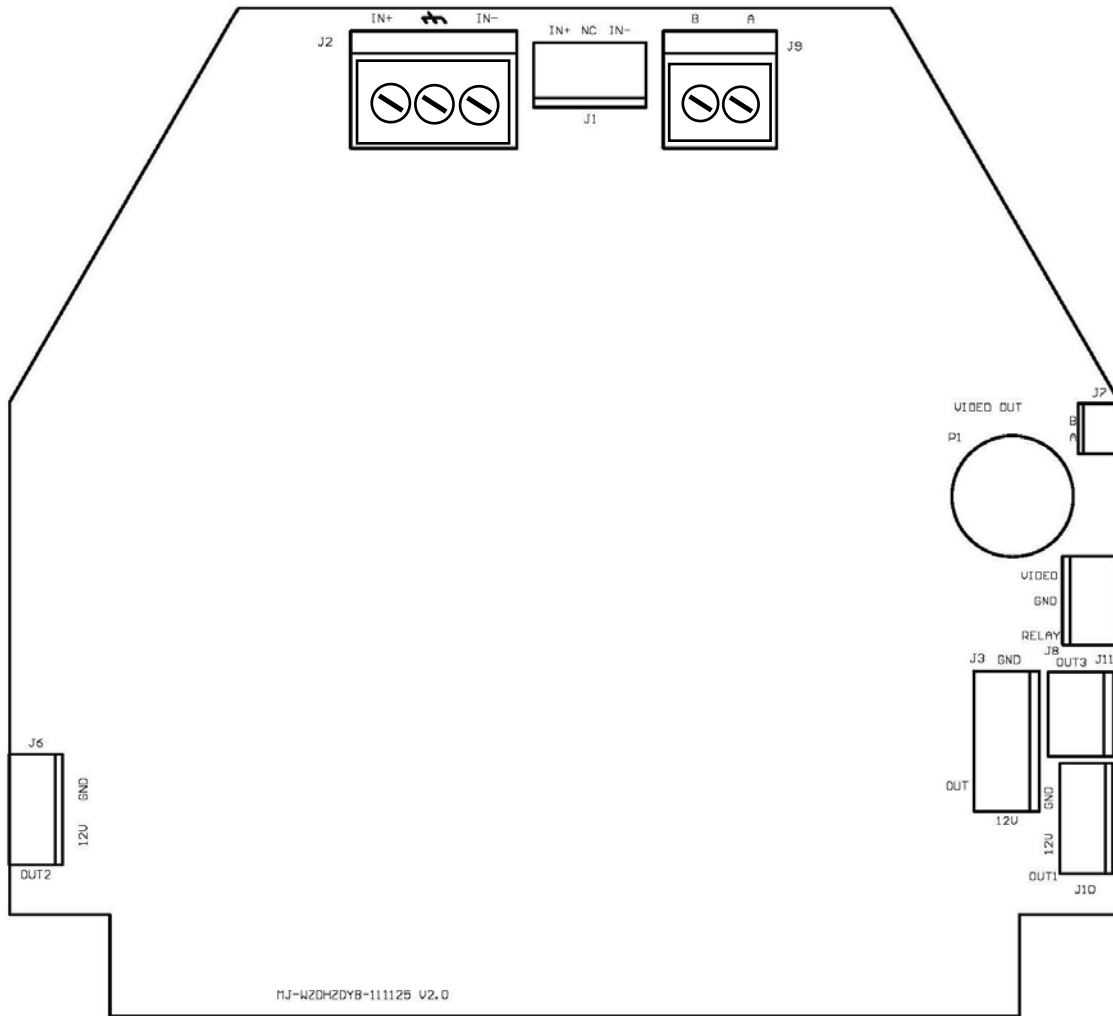
2.1 P1：BNC Video Output Signal

2.2 J1，J2：AC24V/DC12V power input

2.3 J3：Board connected socket，DC12V output。（connect with Board J6）

2.4 J7：
Board connected socket，RS485 control signal。（connect with Board J10）

2.5 J8：Board connected socket，Video Signal and Relay control signal input。（connect with Board J 9）

2.6 J9：RS485 control signal input。

2.7 J6，J10：both sides of the external infrared lamp supply power socket

V. Connecting different camera models

1、**DC12V** Color Zoom Camera

Connect the J1 control panel output voltage mouth DC12V power to the input part of the camera, video signal ouput by the camera BNC directly.

2、AC24V Color Zoom Camera

The power of zoom camera input directly by the external AC24V power input, video signal output by camera BNC directly .

VI. Auxiliary Preset Function

Press button open″ of keyboard to open camera menu or enter the sub menu,Rocker lever up and down the menu, joystick left and right selection options

Preset	Faction	Setting	Transfer
51	IR electric mode	/	on
52	IR auto mode	/	on
53	Infrared Lamp on	/	on
54	Infrared Lamp off	/	on

Main	Submenu			Default
Exposure	Brightness	0~20		8
	Sharpness	0~20		5
	Color Gain			10
	Gamma	0~4		0.55
	AGC	0~10		11
	Lens			
	Shutter (Auto/Manual)	Manual -Level	1/30(25), 1/60(50), 1/120(100), 1/240, 1/500, 1/1K, 1/2K, 1/4K, 1/8K, 1/16K, 1/30K, 1/60K.	1/1k
	DSS	OFF, X2, X3, X4, X5, X6, X7, X8		OFF
	Return			
AWB	Auto			Auto
	Auto Ext			
	Preset	Pushing		
	Manual	Kelvin	Low/ Middle / High	
		R-Gain	0~20	
		B-Gain	0~20	
		Return		
WDR/BLC	WDR	Weight	Low/ Middle / High	OFF
		Return		
	HLC	Level		
		Return		
	BLC	H-POS	0~20	
		V-POS	0~20	
		H-Size	0~20	
		V-Size	0~20	
		Return		
3D-DNR	High / Middle / Low / Off			OFF
Image	Day & Night	Mode	Extern / Auto / Color / D&N	Extern
		IR LED	NO / YES	NO
		Smart IR	LED Power (Full / Dimming)	FULL
			Anti-Sat (0~9)	4
		Extern S/W	Low/High	LOW
		AGC Threshold	0~20	8
		AGC Margin	0~20	8
		Delay	Middle / Low / High	Middle
	Mirror		OFF	OFF
	Flip	OFF / H FLIP / V FLIP / HV FLIP		OFF
	D-Zoom	1X / 2X / 4X / 6X / 8X / 10X / 12X / 14X / 16X / 18X / 20X		1X
	D-WDR	OFF		OFF
	Shading	ON/OFF		OFF
	Privacy	ON/OFF		OFF
	Motion	OFF		OFF
	Return	ON/OFF		
System	Protocol	ON/OFF	Address: 0~255	1
			Baudrate:9600/1200/2400/4800	9600
			Protocol:Pelco-D / Pelco-P	PELCO-P
	Image Range	Full / Comp		FULL
	Output	720P / 1080P		1080P
	Color Space	HD CbCr , SD CbCr, YUV		HDCbCr
	Frame Rate	30/25FPS		30FPS
	CVBS	NTSC /PAL		NTSC
	Reset	ON		
	Return			