High Resolution CCD Waterproof ANPR Camera
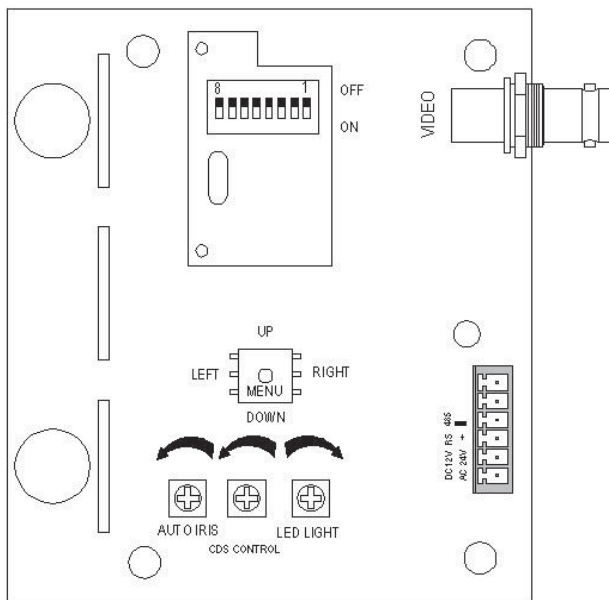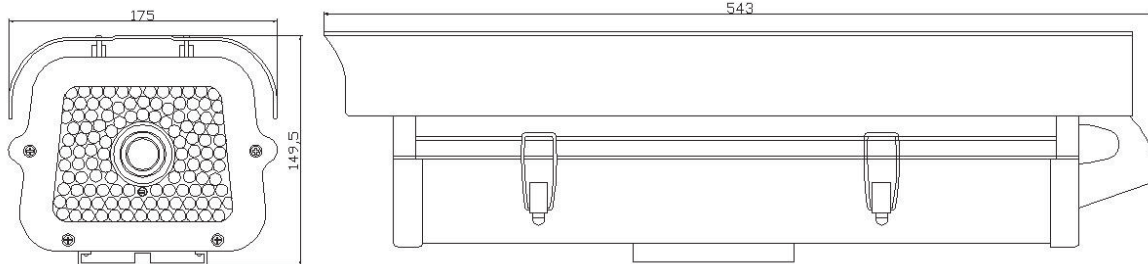
● **ITEM №: SENS5100WIR**

Remark: Non-regulative adaptor may cause camera damaged.

AI:	Auto IRIS
AES:	Auto Electric shutter
BLC:	Back Light Control
AGC:	Auto Gain Control
ATW:	Auto Trace White Balance
AWB:	Auto White Balance
SENSEUP:	Slow-Shutter
H-MIRROR	Horizontal Mirror
V- MIRROR	Vertical Mirror
ZOOM:	Digital zoom
ENHANCE:	Definition enhance
GAMMA:	0.45
COLOR BAR:	Monitor Calibration
FLC:	Flicker less
AUTO IRIS	Lighting adjustment
CDS CONTROL	LED open adjustment
LED LIGHT	LED power adjustment

● **Features**

※ IP66 aluminum housing
※ High efficiency heat evaporating housing
※ No IR diffuse reflection's glass design
※ Special design IR LED and circuit prolongs life span of IR LER
※ Build-in 5-100mm IR lens
※ Build-in 114 PCs high power IR LED

● **Caution for Installation**

1. In order to prevent electronic shock and/or destroy waterproof, don't loosen any screws and/or covers.
2. Adjust the sunshade cover to avoid sunlight shoot the lens directly.
3. Do not directly touch the front glass. If necessary, use a soft cloth moistened with alcohol to wipe off the dust.
4. Avoid places where there are frequent vibrations or shocks.
5. Don't operate the camera beyond its temperature, power source ratings.
6. When any abnormalities happen, make sure to unplug the camera and contact your local dealer.

● **Packing**

1. Camera   X1
2. User's Manual   X1

Specification：

Specification ╲ Model	SENS5100WIR
Type	Color / Monochrome (D/N)
Image sensor	1/3" SONY Ex-view CCD
Picture Elements	NTSC:811H×508V PAL:795H×596V
Resolution	650TVL
Mini Illumination	5-12Lux (adjustable) 114 PCs High Power IR LED ON
Vertical Frequency	NTSC: 59.94Hz PAL: 50.00Hz
Horizontal Frequency	NTSC: 15.734 KHz; PAL: 15.625 KHz
Clock Frequency	NTSC: 28.636MHz; PAL: 28.375MHz
Scanning System	2:1 Interlace
S/N Ration	More than 65dB
Electronic Shutter	NTSC1/60-1/100,000SEC; PAL1/50-1/100,000SEC
Lens	5-100mm ASP IR LENS(AUTO IRIS)
White Balance	OSD
Back Light Compensation	OSD
Auto Gain Control	OSD
GAMMA	0.45
Video Out-Put	1.0Vp-p(75Ω BNC)
Power Supply	DC12V/AC24V
Current Consumption	500-1900 mA(adjustable)/Max current: 2700mA
Recognition distance	15-30M
Dimension	56*20*16cm
Weight	4KG
Storage Temperature	-30～+60℃
Operating Temperature	-10～+45℃

Attention: After you chose the default setting, please reset:

1. choose DC driver for LENS option.

2. set the shutter speed to 1/250 second.

Notes for installation:

1. Connect power with DV12V or AC24V input, no need to care which one is – or +. Note, if you want to use DV12V power supply, the power should exceed 3.5Am.
2. Connect Video's BNC to get video output, you will see image, but image maybe blur, you need to adjust the lens.
3. The knob which close to the led board on the lens is Zoom, the other knob is Focus, adjust these 2 knobs so that you can get clear image.
4. Shutter speed: according the form we stick on the control board, you can see how to adjust the shutter speed, but better not to adjust it, standard shutter speed is 1/500 sec, under this standard, and you can capture number plate when the car's speed reaches 150km/h.
5. AUTO IRIS: to set up image for correct exposure, to get a picture lightness you satisfy (adjust in daytime).

6. CDS control: adjust the LED operating time; control how dark the LEDs are going to work. The CDS sensor is at the back of the camera, you can

adjust to control it, pls do not let CDS sensor be illuminated by road lamps or other light sources when installs.

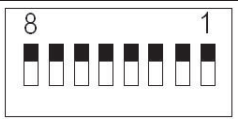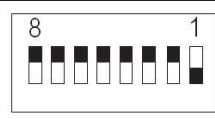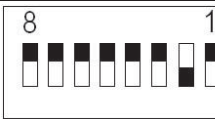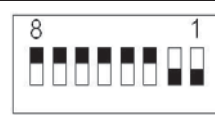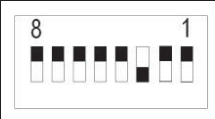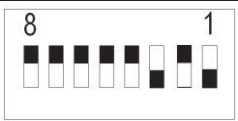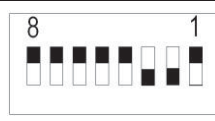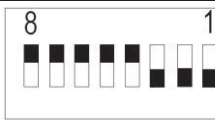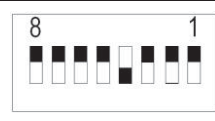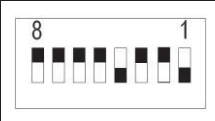7. LED light: adjust LED output power, according to the real working environment; adjust this to let you see number plate clearly at night time.
8. Installation way:
(1) Camera height: 2.5m to 6m away above the road.
(2) The distance from the camera and the cars: 5-30m.
(3) Lens adjusting way: let the car on the image be as 70% width on the monitor so that you can see number plate clearly or you can adjust to any width which you can clearly recognize the number plate.
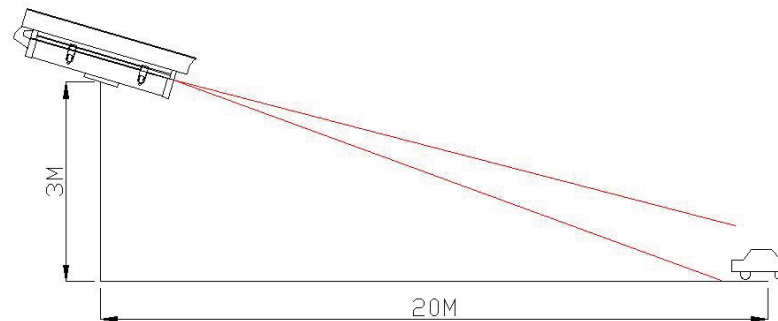
9. Shutter speed and car speed corresponding form

Shutter speed	MILE	KM	Shutter speed	MILE	KM	Shutter speed	MILE	KM	Shutter speed	MILE	KM
1/100	20	30	1/100	40	60	1/250	50	80	1/100	75	100
1/250	80	120	1/500	100	150	1/1000	120	180	1/1000	135	220

10. RS485 Camera control address instruction

DIP switch	Address code	DIP switch	Address code	DIP switch	Address code	DIP switch	Address code	DIP switch	Address code
	0		1		2		3		4
	5		6		7		8		9……

11: 485 protocol and keyboard control

Keyboard and correspondent bottoms on camera board	
IRIS OPEN	ENTER
ZOOM TELE	DOWN
ZOOM WIDE	UP
FOCUS FAR	RIGHT
FOCUS NEAR	LEFT

485 protocal:Pelco-D.2400bpsi