

Owners/Installation Manual

IP1910IRHC Extreme Series Front/Rearview IP Camera



Mounting the Camera

- 1) Select a position to mount the camera that is free of obstructions and moving parts and has a proper viewing angle of the desired area around the vehicle.
- 2) Remove the bracket from the camera by loosening the screws using the supplied allen wrench. Use the camera's bracket as a template to drill mounting holes.
- 3) Align the mounting bracket with pre-drilled holes then secure bracket with appropriate screws. (not supplied)
- 4) Route camera cable through pass-through hole and secure the grommet.
- 5) Reinstall the camera using the supplied screws, then adjust to position.

Maintenance

Although this Rear View Camera requires little care, you can still maintain its condition and performance by following these steps:
 * Occasionally clean the camera lens with damp soft cloth.

Note: The user should not attempt to service the unit beyond that described in the operating instructions. All other servicing should be referred to qualified personnel.

Troubleshooting

Symptoms	Solutions
Cloudy Image	Clean Dirty Camera Lens
No Power / Image	Check Power Connections
Upside Down Image	Camera light sensor should be under the lens.
Unstable Image	Check Mounting Hardware and Camera Power Connection for tightness

Specifications

Warranty and Support Information

Image Sensor:	1/3" CMOS
Resolution:	1280*720 /25fps
S/N Ratio:	≥50dB
Lens:	f=2.8mm 3MP
Lens Angle: Option 1, (90)	95 x 50
Option 2 (120)	118 x 65
Cable Length:	1.5m
Video Format:	NTSC
IP Rating:	IP69K
DC Power:	12V
Operating Temperature:	-20° ~ 70° C

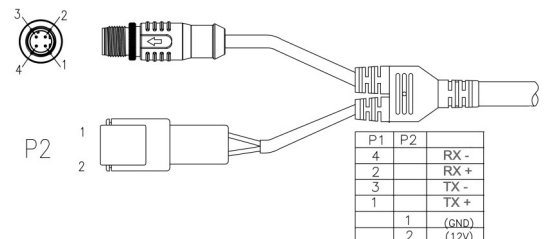
Subject to the provisions described below, this CT product is protected for 3 years against defects in material and workmanship. Should a product fail to perform as described above within the warranted period, it will be repaired or replaced with the same or functionally equivalent product by CT. This warrant does not apply if, in the judgement of CT, the product fails due to damage from shipment, handling, storage, accident, abuse or misuse, or if it has been used or maintained in a manner not conforming to product manual instructions, has been modified in any way. Repair by anyone other than CT or an approved agent will void this warranty. The maximum liability of CT under this warranty is limited to the purchase price of the product covered by the warranty. All defective products should be returned to CT with shipping charges pre-paid. CT will not accept collect shipments.

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Processor	ARM SoC
Image Sensor	1/3 Inch CMOS Digital Image Sensor
TV System	NTSC
Image Resolution/Frame Rate	Max:1280*720 /25fps
Lens	2.8 mm HD 3MP Lens
Day & Night	Yes
Infrared Nightvision	Yes
IR Light	12 pcs
Night Vision Range	20 feet
Lens Angle: Option 1, (90)	H = 95°, V = 50°
Option 2, (120)	H = 118°, V = 65°
Minimum illuminator	0.001Lux @(F1.2,AGC ON),0 LUX with IR
Compression Technology	MJPEG
Max Coding Rate	128-8192kbps
Encoding Type	CBR or VBR
White Balance	Manual / Auto
Gamma Adjusting	0.45
R/N Ratio	More than 50db
Image intensification	Brightness, Contrast, Saturation adjustable
Video Orientation	Left & Right Mirror, Up & down Flip
Network Port	EN50155 Ethernet(10M/100M Base-T) M12 connector
Power Input	Deutsch - DTM04-2P connector
Software management	Windows based Software Tools
Operating Enviroment	-5°C~70°C / -30°C~70°C with heat chip
Voltage	DC12/24V Power consumption lower than 2W
Dimension	110(W) x77(D) x75(H)mm
Video Protocol	RTSP over TCP
Waterproof Rating	IP69K
Default IP address	192.168.128.10



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Instructions to View Camera on Computer

1. System Requirement for PC is Microsoft Windows 7 /8 /8.1 / 10.
2. Go to PC Network Settings, Ethernet, Change Adaptor Settings, Right Click on Ethernet, select

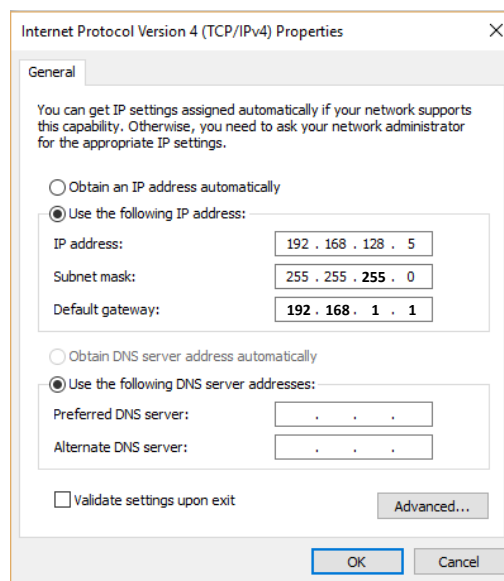


Fig: Acceptable IP addresses that can be used are 192.168.128.2 to 253 (except 192.168.128.10, which is the static default IP address of the camera you are trying to view) Note: Do not change the settings to the WiFi card, these instructions apply only to the Ethernet (hard connected) card.

3. Connect **12VDC ONLY** power to camera along with camera M12 connector to an RJ45 Ethernet directly to your Microsoft Windows PC. (adaptor for M12 to RJ45 conversion optional)
4. Launch IP Config Software once camera is connected.
5. Camera IP_Address (192.168.128.10) will be detected, Click on Connect to show camera image.



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Instructions to View Camera on Computer

Cables needed to view and program the camera:

M12-4pin F to RJ45 M—connects directly to the ethernet card in your computer



When connecting multiple cameras to an M12 ethernet switch:



M12-4pin F to M12-4pin M extension—connects each camera to the switch



M12-4pin M to RJ45 M—connects the switch to the computer

Each camera will need a unique IP address, which you can change one at a time with the IP Config software. Once changed, you will need to manually power cycle that camera.