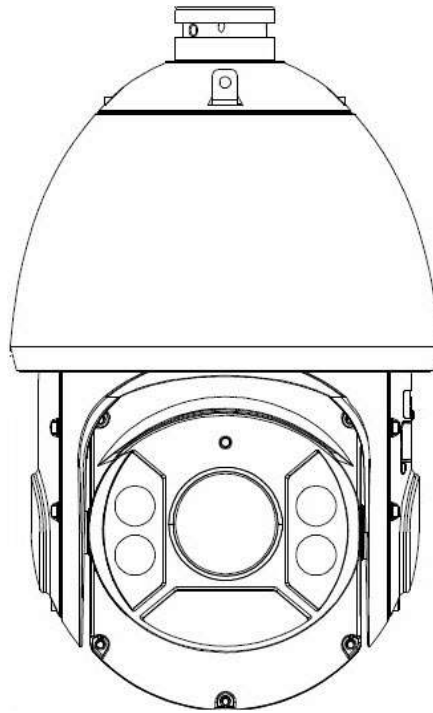


Cameras:

IP-PTZ

IC REALTIME SECURITY SOLUTIONS

ICIP-MP2008IR: IR IP PTZ Camera



Instruction Manual

IC REALTIME SECURITY SOLUTIONS

ICIP-MP2008IR IP PTZ Camera Instruction Manual

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Features and Specifications

This section outlines the primary features of the ICR realtime ICIP-MP2008IR IP PTZ Camera. It also outlines basic Architectural and Engineering specifications.

1.a Overview

This IC Realtime series product is an excellent IP PTZ designed for the security field. It adopts an embedded Linux operating system to maintain reliable, 24/7 operation. Utilizing both H.264 video compression and G.711 audio compression technology enables the highest quality of recorded audio/video, while maintaining the lowest bitrate utilization.

The ICIP-MP2008IR series is an entry level, 1.3 MegaPixel IP PTZ Camera with integrated IR (Illuminators) for low light conditions. This IPC is fully suited for full operation as a standalone device, or can be paired to one of our ICR Network Video Recorders to add a great duration of recorded video.

The 1.3MP recording resolution and the ability to scan a large field of area makes this IPC well equipped for installation in various institutions ranging from residential, commercial, governmental, and enterprise environments.

1.b Features

IC Realtime MP2008IR series IP PTZ Cameras all support the following features:

- **Real-time Monitoring**

This IP Camera records 1.3 Mega Pixels (1280x960) video at a full 30 FPS.

- **Secure Archiving**

Audio Video data is compressed and packaged into a secure, and proprietary video format (.dav files). This bolsters archived video integrity, and prevents vicious data manipulation. Video is also watermarked with special data for evidentiary purposes.

- **Compression Format**

H.264 video and G.711 audio enables high quality video recording while maintaining the lowest file sizes possible.

- **Network Operation**

Full system control (including live view, playback, backup, PTZ control, and system configuration) is available with over the network. Client software is available for both Mac and PC systems.

- **PTZ Control**

You have full pan/tilt/zoom functionality to control manually. In addition, you have functions to automate the control such as presets, touring, patterns and auto panning.

1.c Specifications

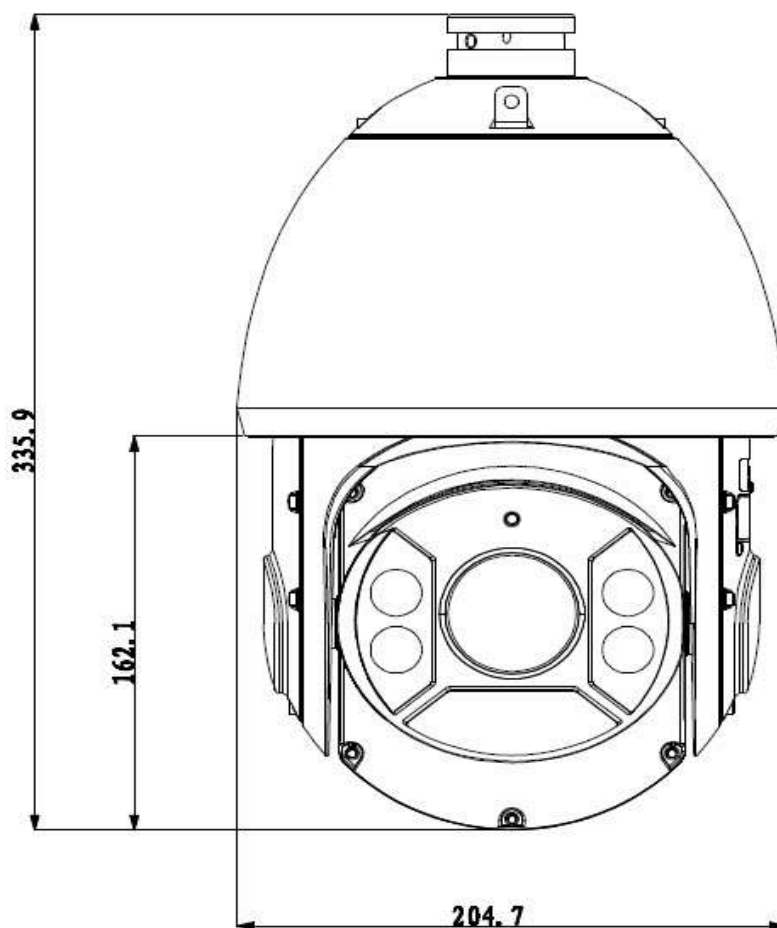
Model	MP2008IR
Camera	
Image Sensor	1/3" Exmor CMOS
Effective Pixels	1280(H) x 960(V)
Scanning System	Progressive
Electronic Shutter Speed	1/1 ~ 1/30,000s
Min. Illumination	Color: 0.05Lux@F1.4; B/W: 0.005Lux@F1.4
S/N Ratio	More than 50dB
Video Output	BNC(1.0Vp-p/75Ω), PAL / NTSC
Camera Features	
Day/Night	Auto(ICR) / Color / B/W
Backlight Compensation	BLC / HLC / DWDR (Digital WDR)
White Balance	Auto, ATW, Indoor, Outdoor, Manual
Gain Control	Auto / Manual
Noise Reduction	Ultra DNR (2D/3D)
Privacy Masking	Up to 24 areas
Digital Zoom	16x
Lens	
Focal Length	4.7mm~94mm(20x Optical zoom)
Max Aperture	F1.4 ~ F2.6
Focus Control	Auto / Manual
Angle of View	H: 55° ~ 3.2°
Close Focus Distance	100mm~ 1000mm
PTZ	
Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180°
Manual Control Speed	Pan: 0.1° ~160° /s; Tilt: 0.1° ~120° /s
Preset Speed	Pan: 300° /s; Tilt: 300° /s

Preset		80(ICR-SD), 255(Pelco-P/D)
PTZ Mode		5 Pattern, 8 Tour, Auto Pan, Auto Scan
Speed Setup		Human-oriented focal length/ speed adaptation
Power up Action		Auto restore to previous PTZ and lens status after power failure
Idle Motion		Activate Preset/ Pan/ Scan/ Tour/ Pattern if there is no command in the specified period
Protocol		ICR-SD, Pelco-P/D (Auto recognition)
IR Distance		100m (2 near IR LED+ 4 far IR LED)
Video		
Compression		H.264 / MJPEG
Resolution		1.3M(1280×960) / 720P(1280×720) / D1(704×576/ 704×480) /CIF (352×288/352×240)
Frame Rate	Main Stream	1.3M/720P(1 ~ 25/30fps)
	Sub Stream	D1/CIF(1 ~ 25/30fps)
Bit Rate		H.264: 448K ~ 8192Kbps, MJPEG: 5120K ~ 10240Kbps
Audio		
Compression		G.711a / G.711u(32kbps)/ PCM(128kbps)
Interface		1/1 channel In/Out
Network		
Ethernet		RJ-45 (10/100Base-T)
Protocol		IPv4/ IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
ONVIF		ONVIF Profile S
Max. User Access		20 users
Smart Phone		iPhone, iPad, Android, Windows Phone
Auxiliary Interface		
Memory Slot		N/A
RS485		1
Alarm		2/1 channel In/Out
General		

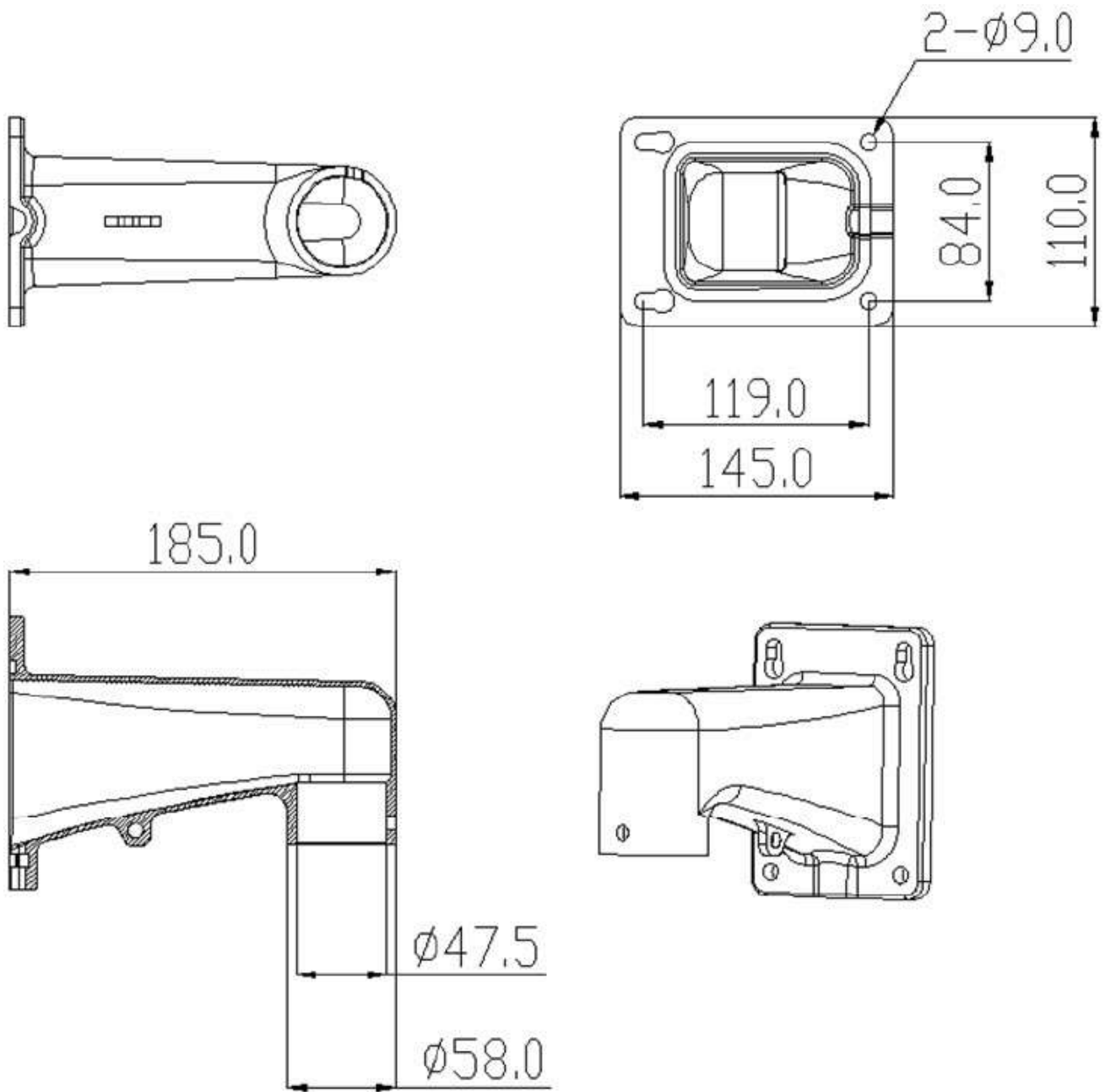
Power Supply	AC 24V/2.2A (±10%)
Power Consumption	10.5W, 26W (IR on, Heater on)
Working Environment	-40°C ~ 60°C / Less than 90% RH
Ingress Protection	IP66
Dimensions	Φ204.7(mm) x 359.9(mm)
Weight	7.8kg

1.d Dimensions

PTZ Module



Wall Mount

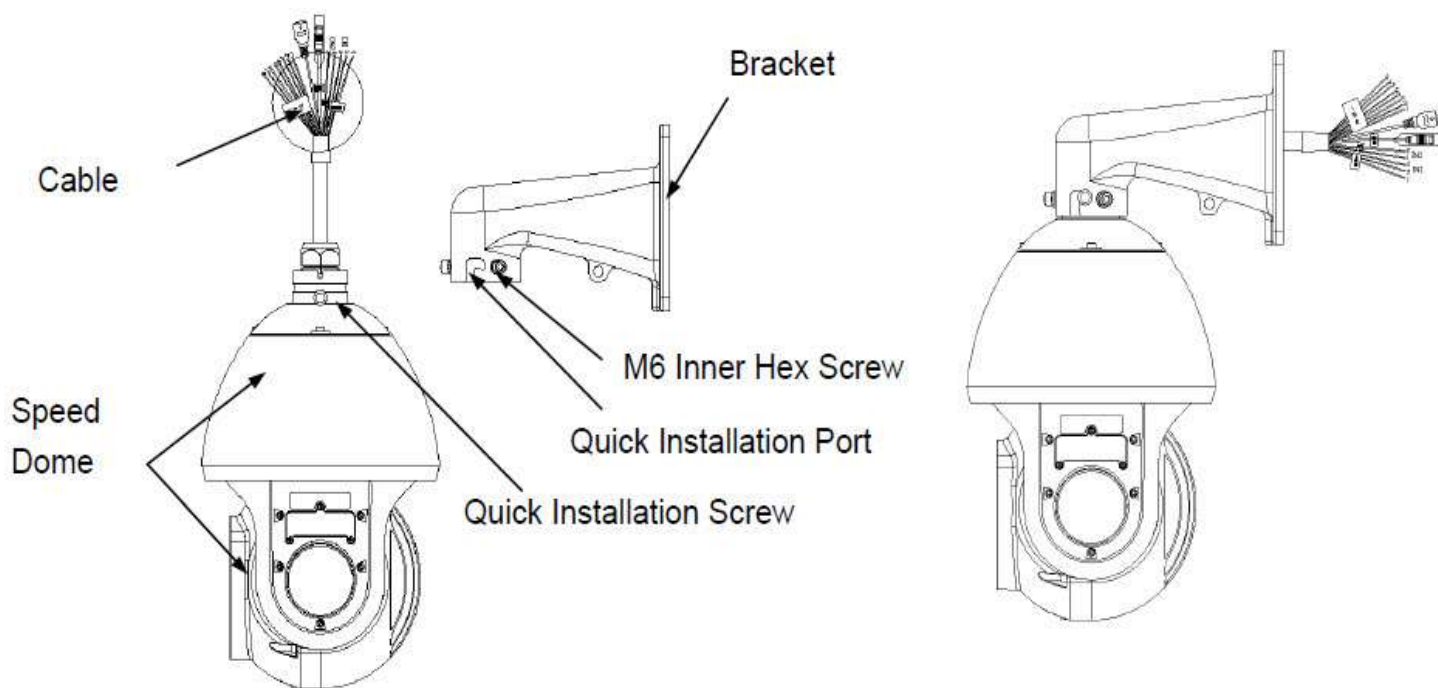


Camera Installation

This section outlines the proper way to mount and install an ICIP-MP2008IR series IP PTZ Camera. Suitable methods of installing the IPC include either Ceiling installation, Pole Installation, or Wall installations.

✍ Note: Below will go over wall mounting only as the bracket comes with the unit. Please reference other guides to note other installation methods

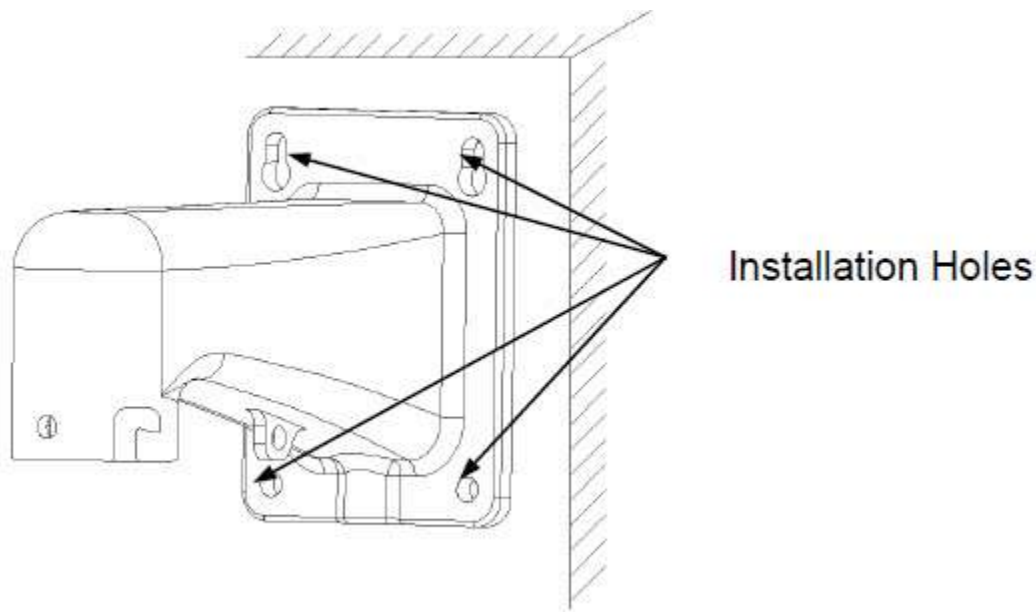
2.a General Overview



2.b Step by Step Guide

- **Step 1: Install wall mount bracket**

Begin by first assuring that the wall you are mounting it on can support the bolts you will be using to hold the mount. Assure the wall can sustain the weight of the PTZ by up to four (4) times its weight. Draw installation holes accordingly and assure placement is even. Drill a large enough hole in the center so to pass the camera's cabling through to the other side. Use bolts to now drill through the wall and fasten tightly.



- **Step 2: Tunnel cables through bracket**

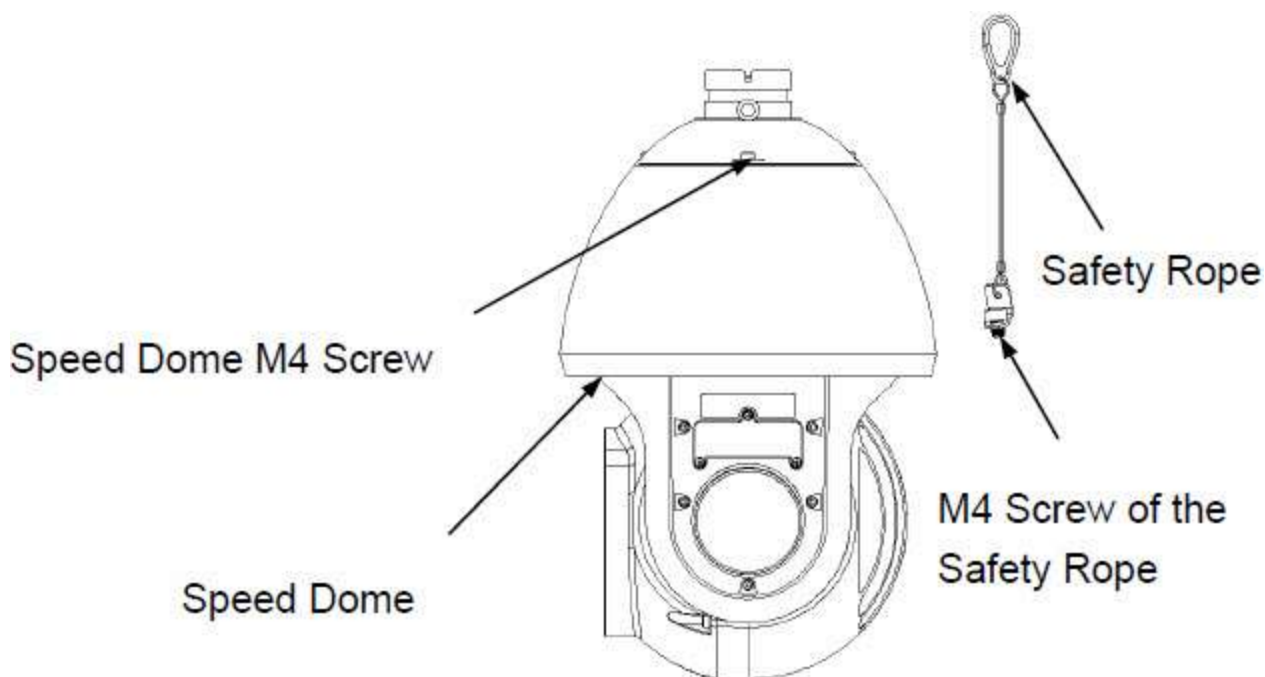
Assure that the bracket you mounted is completely fastened and can sustain heavy weight. While holding the PTZ close to the bracket, pass the camera's attached cabling through the bracket and assure it passes through to the other side of the wall.

- **Step 3: Mount PTZ**

Loosen the M6 inner hex screw from the bracket. Align the PTZ with the wall bracket and assure that it fits through the 'quick installation port'. Turn the PTZ so it rests in the groove. Tighten the M6 inn hex screw until fully fastened and secure.

- **Step 4: Attach safety cable**

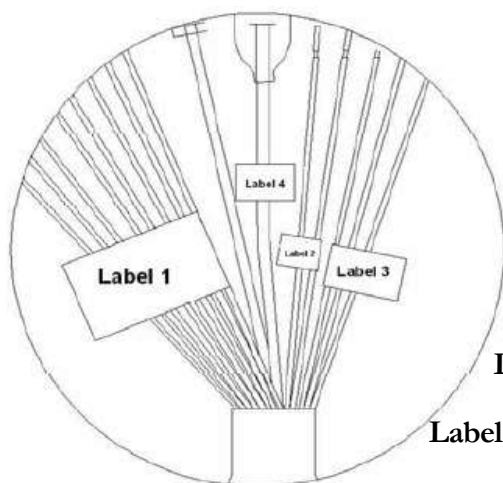
Lastly, securely attach the safety cable if not already on the PTZ. Clip the other end to the wall bracket. You will notice a small loop hole attached on the under belly of the bracket.



2.c Connections & DIP Switch Settings

This section will cover all connections of the MP2008IR PTZ.

 Note: For network connectivity, you would only need to use the RJ45 for network access and use the power terminals to provide power to the PTZ.



Label 1 (Alarm) - Red: Alarm input 1 Brown - Alarm input 2

White: Common Blue: Alarm output 1 Black: Ground

Label 2 (RS485) - Green/Yellow: A+ Orange: B-

Label 3 (Power) - Red: AC24V Black: AC24V Yellow: Earth

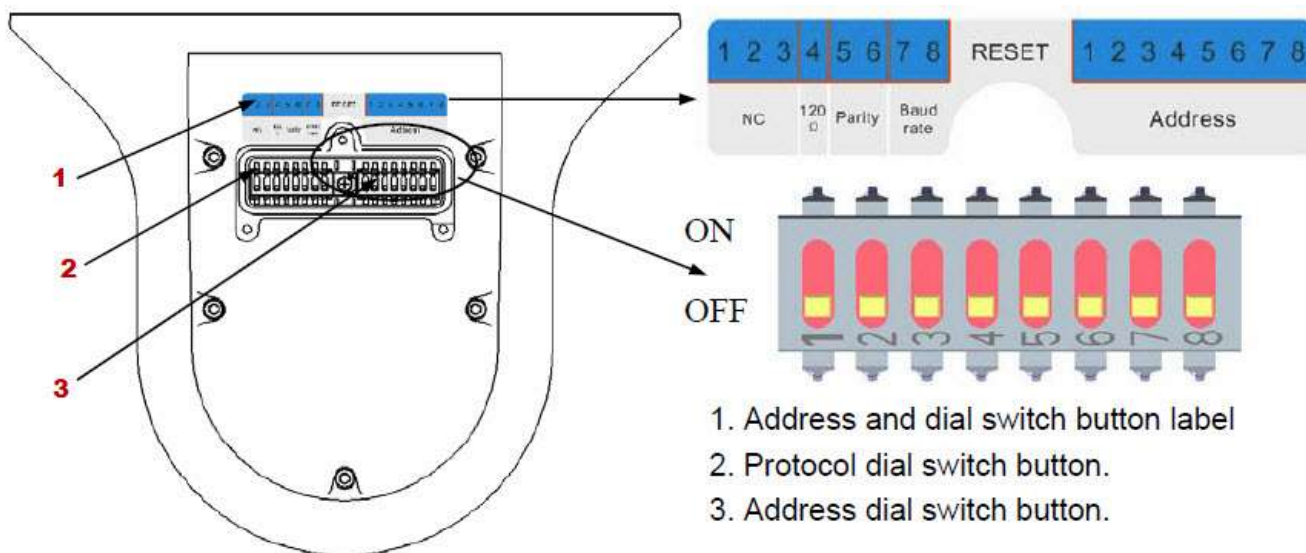
Label 4 (Video) - BNC: Video output

Label 5 (Audio) - Red: Audio out White: Audio in Black: Ground

Dip switch settings are used to change the address, protocol, baud rate and parity of the PTZ. This is not needing to be changed if connecting it just over the network. You can make these changes by connecting direct to the camera through its Web UI or our standalone CMS client.

 Note: By default, the PTZ dip switch settings are as follows:

- Address: 1 Baud rate: 9600 Parity: None



Address: Use the table below as an example to set different address to the PTZ. The highest address bit you can set it '255'. The chart below shows examples up to five (5) different addresses and how to set them on the dip switch.

 Note: Understand that if you have multiple PTZs on the same RS485 bus, they need to be addressed all differently.

Address	1	2	3	4	5	6	7	8
1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
1	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
3	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
4	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
5	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF

Protocol: The protocol should be self aware to use with Pelco D/P and ICR - SD. You should not need to set the protocol manually

Parity: Note the chart below to set your parity. You should not need to change the parity in most cases.

6	7	Parity
OFF	OFF	NONE
ON	OFF	EVEN
OFF	ON	ODD
ON	ON	NONE

Baud Rate: Note the chart below to set your baud rate. This may need to be changed due to specifications in your controlling device and also for certain length of runs.

4	5	Baud Rate
OFF	OFF	9600bps
ON	OFF	4800bps
OFF	ON	2400bps
ON	ON	1200bps

Web GUI Operation

This section outlines how to assign an IP address to the camera, and how to access and control the IPC via it's built in Web Ineterface.

3.a Network Connection

- **Step 1: Ensure the Camera is physically connected to your Network, and Powered ON.**

Patch the IP Camera into your network with a standard Ethernet cable. Provide the camera with the required 24V AC power source. Only use the supply that comes with the camera!

- **Step 2: Assign an IP address to the IP Camera.**

The ICIP-MP2008IR Series camera (and all ICR IP Cameras) have a factory default static IP address of '192.168.1.108'. If this matches the same subnet as your LAN, you will be able to login to the camera by typing this address into your browser (assuming that the IP address does not conflict with another device on your network).

Alternatively, you can use our IP Auto Search utility to rapidly find and change IP addresses for IC Realtime series IP Cameras. The utility is available on our support page at :

<http://www.icrealtime.com/docs/IPAutoSearch.zip>

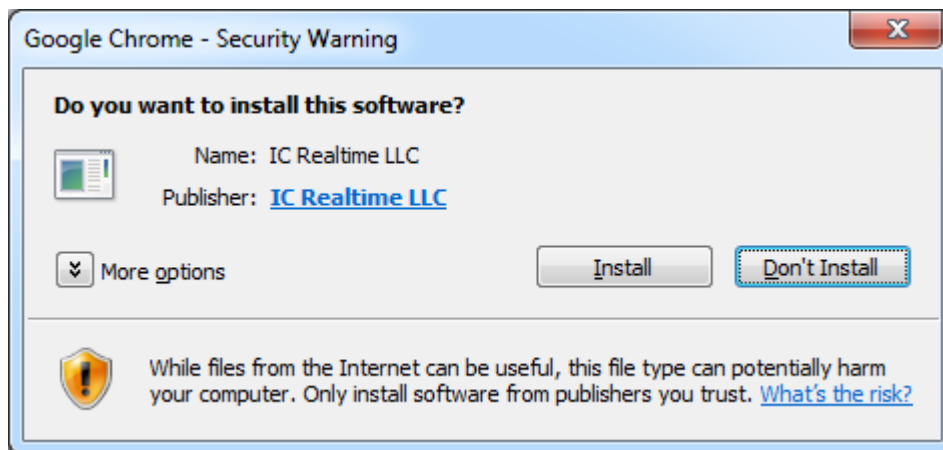
3.b Logging In, and Main Interface

- **Step 1: Open up your Web Browser (Safari, Chrome, Firefox, or IE) and input the IP address of your IP camera.**

In Example, open Safari and browse to <http://192.168.1.108>

- **Step 2: Follow the on screen prompts to install the plugin**

When you first access the IP Camera over your web browser, you will be prompted to install the plugin. See below:



- **Step 3: Login to the camera with the default credentials**

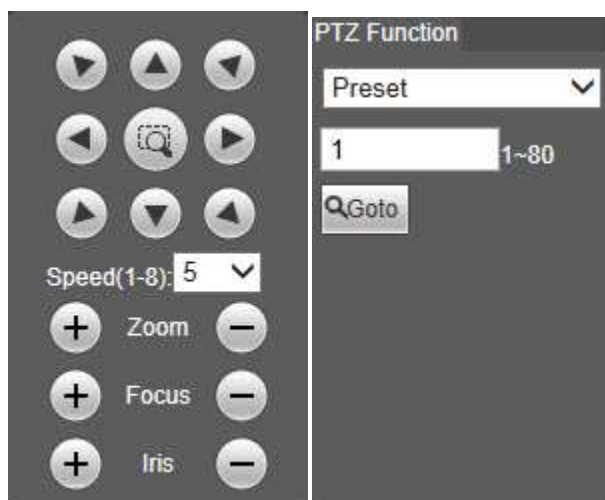
By default, the username is '**admin**' and the password is '**admin**'. It is always strongly recommended to change the default passwords after the initial setup. The cameras login page should appear as below:



3.c PTZ Controls

One of the primary features and functions of the IPC PTZ series cameras is the ability to Pan/Tilt/Zoom. Read on for a step-by-step guide on how to control the multiple functions of the ICIP-MP2008IR

Once you are logged in, you should see the video of the camera appear in the middle of the viewing section. Off to the right you will find the PTZ controls of the camera. See figure below.



Directions include: left / right / up / down / upper left / upper right / bottom left and the center button which allows for direct mouse control

Functions include: Scan, preset, tour, pattern, assistant, go to, and pan. See explanations below.

Parameter	Function
Scan	Select Scan from the dropdown list, click Start button, you can begin scan operation. Default SN is 1.
Preset	Input the preset value and then click View button, the camera turns to the corresponding position of the preset.
Tour	Select Tour from the dropdown list and then click Start button, you can begin tour.
Pattern	You can select Pattern from the dropdown list and then click Start button to begin PTZ movement.
Assistant	Reserved assistant function.
Goto	- It is the accurate positioning function. Please input corresponding horizontal angle, tilt angle, and speed dome zoom speed and then click Goto button to go to a specified position. - One unit of the horizontal angle or tilt angle stands for 0.1 degree.
Pan	Select Pan from the dropdown list and then click Start button, you can turn the PTZ realize 360 degrees movement. Click Stop button to stop current operation.

 Note: To set these options above, you will need to click on the 'Setup' menu option and choose the 'PTZ' > 'Function' menu.

Once in the PTZ 'Function' menu, you may set the different functions. Please reference our other manuals for detailed information about the different functions. Below is a list of what can be set.

Parameter	Function
Preset	Set camera preset.
Tour	Set camera tour. Max 8 tours.
Scan	Set camera scan.
Pattern	Set camera pattern.
Pan	Set camera rotation speed.
Privacy mask	Set camera privacy mask zone.
PTZ speed	Set PTZ movement speed.
Idle motion	Set camera idle operation.
Power up	Set camera operation when system boots up.
PTZ restart	Restart camera PTZ.
Default	Restore camera PTZ default setup.

Appendix: Toxic or Hazard Materials Report

Component Name	Toxic or Hazardous Materials or Elements					
	Pb	Hg	Cd	Cr VI	PBB	PBDE
Circuit Board Component	○	○	○	○	○	○
Device Case	○	○	○	○	○	○
Wire and Cable	○	○	○	○	○	○
Packing Components	○	○	○	○	○	○
Accessories	○	○	○	○	○	○

O: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.

Note

- This user manual is intended for reference only. Slight differences may be found in the user interface as products continually develop.
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- Please visit <http://www.icrealtime.com> for more information.