PTZ-HD30-18-C
Installation Guide

READ THIS FIRST

IG-046

Revision History:		
Rev 0	**6-24-2021**	**Issue**

1 Check Receipt of All Components

1.1 Component List

PTZ Camera including:

- Pan/Tilt/Zoom IP camera dome.
- Ultra High Power PoE injector.
- Wall mount with bracket and camera adapter.

PTZ-HD30-18-C

NOTE: Special mounting equipment may be in a separate box and may require additional materials for installation. (Consult the specific kit for more information)

1.2 Additional Installation Requirements

The following items are required to properly complete installation:

- An RJ-45 Ethernet Cable (straight-through, any length).
- A Windows™ computer running Chrome or IE 11.
- Dome lens cleaner.
- Tools for Special Mounting Kit (e.g. IVC Pole Mount Kit). (See kit for details).

2 Set Up and Bench Test Camera

2.1 Remove Packaging and Inspect Camera

To ensure the integrity of the camera during shipping certain packing materials may have been placed inside the camera to protect the lens and electronics. Remove these materials before operating the camera.

It is recommended that you apply a lens cleaner that includes water repellent (such as Rain-X™) to the outer dome of the camera as directed by the instructions included with the cleaner.

The dome lens is constructed of soft acrylic for optimal optical characteristics. It can be scratched easily. Use only a damp soft cloth or vigorous water spray to clean.

If any damage occurred during shipping please call our support line (617-467-3059) for assistance.

2.2 Connect Camera

This camera supports 24 VAC/VDC connections. It can also work with high power PoE 802.3bt.

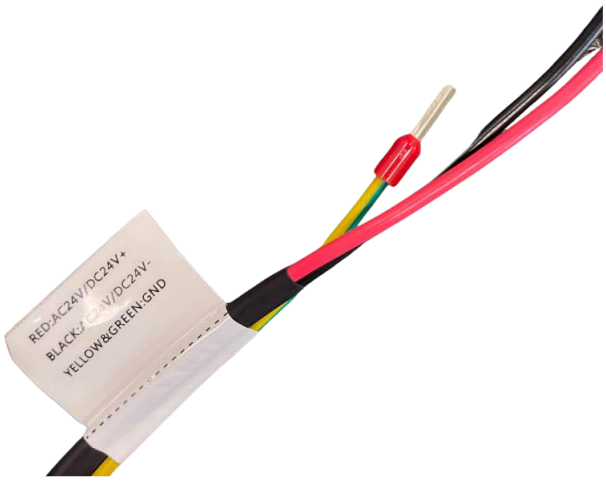
Data in the table below appllies to copper cables that use 24 VAC power supply. The item Core Diameter indicates the conductor diameter. Please refer to the following information:

Core Diameter (Unit: mm) / Distance (Unit: m) / Power Consumption (Unit: W)	0.80	1.00	1.25	2.00
30	28	45	72	183
40	21	34	54	137
50	17	27	43	110
60	14	22	36	91
70	12	19	31	78
80	10	17	27	68
90	9	15	24	61
100	8	13	21	55
110	7	12	19	49
120	7	11	17	45

Data listed in the table below applies to copper cables that use 12 VDC power supply. The item Core Diameter indicates the conductor diameter.

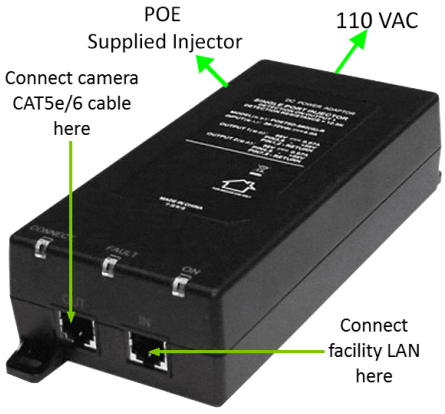
Core Diameter (Unit: mm) / Distance (Unit: m) / Power Consumption (Unit: W)	0.80	1.00	1.25	2.00
30	14	22.5	36	91.5
40	10.5	17	27	68.5
50	8.5	13.5	21.5	55
60	7	11	18	45.5
70	6	9.5	15.5	39
80	5	8.5	13.5	34
90	4.5	7.5	12	30.5
100	4	6.5	10.5	27.5
110	3.5	6	9.5	24.5
120	3.5	5.5	8.5	22.5

Locate the power wires on the pigtail and make your 24 VAC-24 VDC power connection.



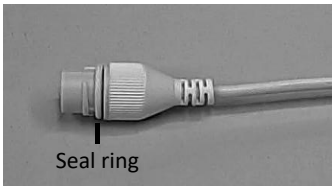
To power via PoE make your connections as shown below.

PoE

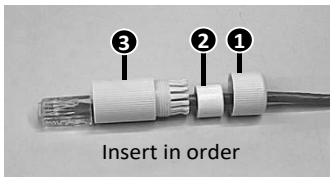


Waterproof components for an RJ-45 plug:

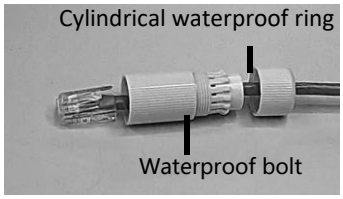
1. Attach the seal ring to the copper interface.



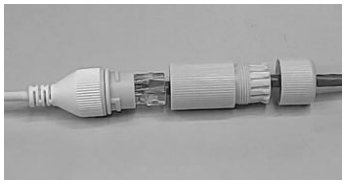
2. Mount the waterproof components.



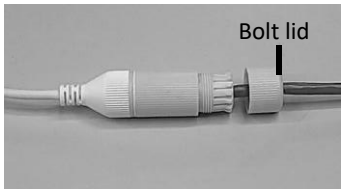
3. Insert the cylindrical waterproof ring into bolt.



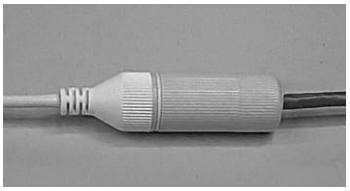
4. Insert the cable into the Ethernet copper interface, and screw the waterproof bolt in.



5. Screw in the waterproof bolt lid.

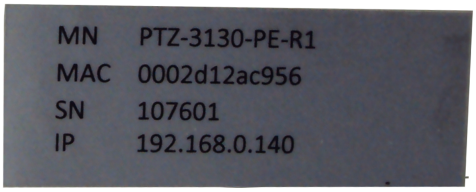


6. Finish the waterproof installation.



2.3 Set Camera IP Address

For your convenience, the camera's default IP is printed on the information label attached to the camera and it shipping container.

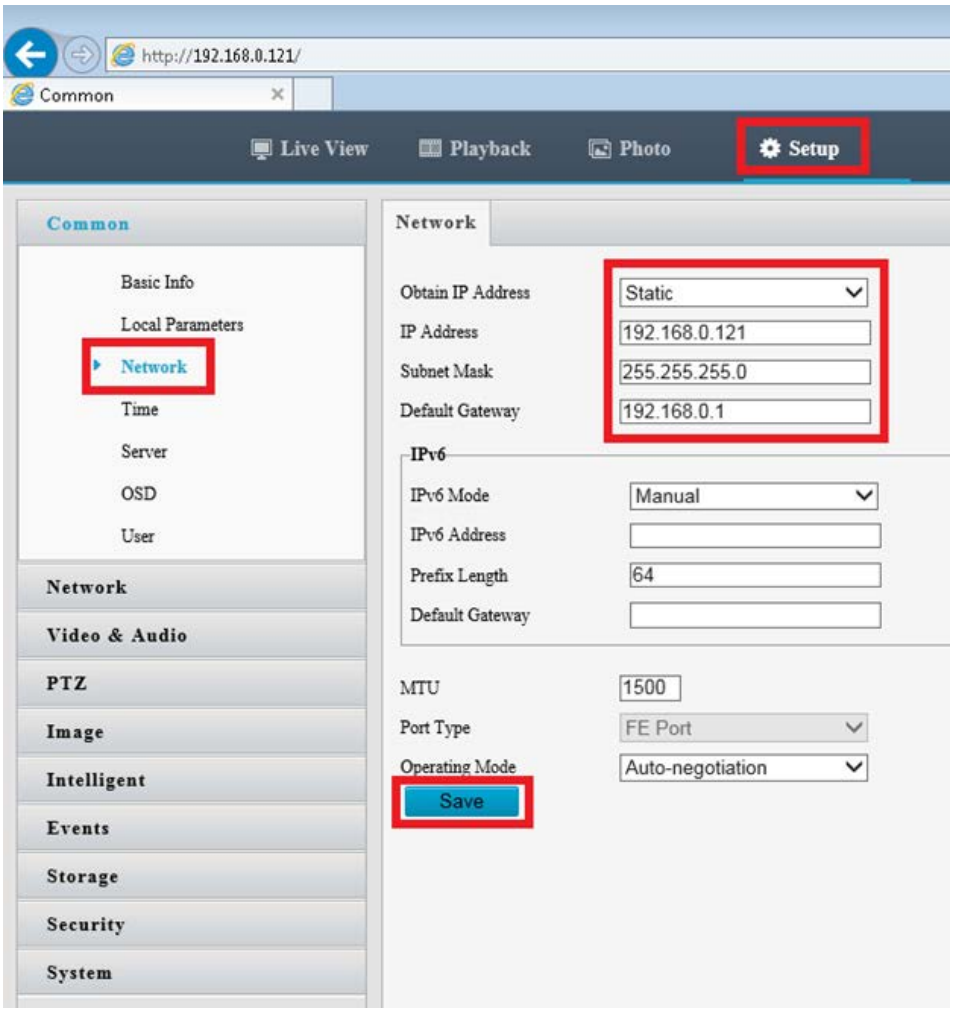


Example camera information label

The camera's IP address has been set on a 192.168.0.x/ class network. For this section, the computer you are using for bench testing must be set to the same subnet as the camera (e.g. 192.168.0.###). Consult your network administrator if you need assistance.

Once you have located the IP address please follow the instructions below to set it to a permanent address:

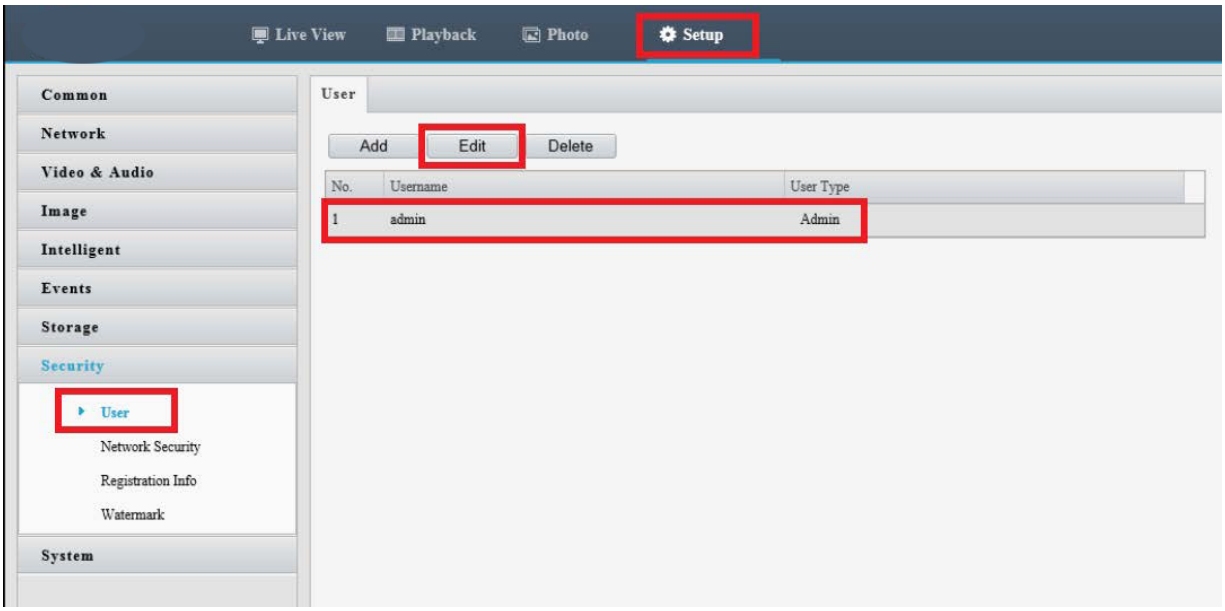
1. Using a web browser enter the IP Address in the address bar, install the required ActiveX control if prompted by the browser and check that you are able to see live video.
2. When prompted by your browser, enter the camera username (factory default = **admin**) and password (factory default = **123456**), **IVC setup default:** admin/admin1234#
3. To change the IP address click on the **Setup** tab and then click **Network.** Please see the field options to include settings.
4. Under the Network section, click the **Use fixed IP address** radio button and enter the IP address the camera you wish to assign to this camera. If needed, you may also change the port setting under the Advanced section. Click the Save button when finished defining the network settings for this camera.


http://192.168.0.121/
Common
Live View
Playback
Photo
Setup
Common
Basic Info
Local Parameters
Network
Time
Server
OSD
User
Network
Video & Audio
PTZ
Image
Intelligent
Events
Storage
Security
System
Network
Obtain IP Address
Static
IP Address
192.168.0.121
Subnet Mask
255.255.255.0
Default Gateway
192.168.0.1
IPv6
IPv6 Mode
Manual
IPv6 Address
Prefix Length
64
Default Gateway
MTU
1500
Port Type
FE Port
Operating Mode
Auto-negotiation
Save

2.4 Configure Admin Password

IVC camera management software uses the Admin login to access the camera. If you desire to change the Admin password, follow the steps below:

1. If not already logged in, log into the camera by typing the camera's IP address into a browser address bar.
2. When prompted by your browser, enter the IVC setup default: admin/admin1234#
3. Click on the **Setup** tab.
4. Click on **Security** in the resulting page's menu.
5. Click on **User** in the Security menu.
6. Enter a new password in the **Edit- admin password** text field. Enter the same password in the **Confirm password** text field. **NOTE:** The new login credentials will be needed to configure the camera in your IVC camera management software.
7. Click the **Save** button.



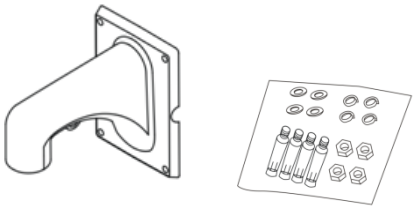
2.5 Bench Test Completed

This concludes the bench test. You are now ready to configure the camera to run on IVC software.

4 Mount the Camera

4.1 Wall Mount - Mounting Accesories

It is important to mount the camera to a solid, stable surface or pole.

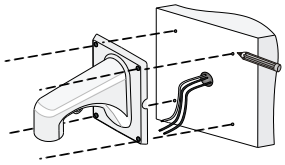


4.2 Mounting Bracket.

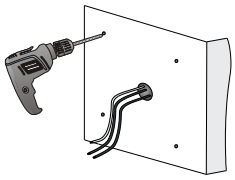
1. Locate the positions of the holes.

a. Mark the positions of the holes by referring to the mount points of the bracket.

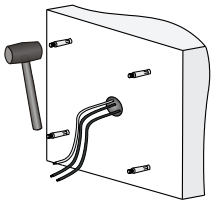
b. Lead the cables to be connected out of wall holes.



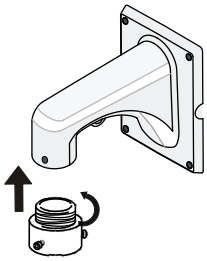
2. Drill holes on the wall. Select a drill bit matching the outer diameter of the expansion bolt. For the hole depth, refer to the bolt length.



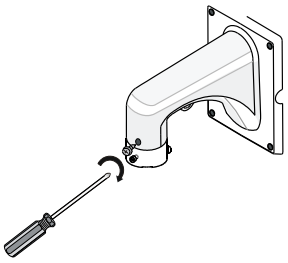
3. Knock the expansion bolts, and verify that they are tightened up.



4. Screw-in the bracket adapter (G1 ½ male thread) to the connector of the wall mount bracket.



5. Tighten the screws (M4) at the bracket connector.



Camera Power:
In some circumstances, IP cameras may require an occasional power interruption to re-initiate the camera software after installation. Ideally, the power for each installed camera should be routed through a permanent and conveniently accessible power switch.

5 Specifications

Imager	2 Megapixel 1/2.8" Progressive CMOS
Resolution	1920(H)×1080(V)
Shutter Speed	1~1/100K sec.
Minimum Illumination	Color: 0.001 Lux (F1.5, AGC On) 0 Lux to 150 m with IR ON
F number	F1.5
Focal Length	4.5mm - 148.5mm
Zoom ratio	33x
Iris	Auto and Manual
Day/night	Auto
Focus	Auto and Manual
White Balance	Auto, Manual, ATW
View Angle	56.2° (wide), 2.6 °(tele)
I/O Terminals	2 Inputs; 1 Output
Ethernet	100Base-TX/10BaseT (RJ-45)
Protocols	TCP/IP, HTTP, HTTPS, FTP, SMTP, ONVIF
Compression	M-JPEG, H.265/H.264
Frame Rate	60 FPS
Voltage Required	24 VAC, 24 VDC, Proprietary PoE (110-220 VAC option available)
Power Consumption	48 W max
Weight	11.68lbs
Operating Temperature	-40° C - 65° C
Dimensions	8.9" W x 14.2" H
Mount	Wall Mount Standard
Enclosure Rating	IP66
Certifications	IEC 62368-1 UL 60950-1 FCC Part 15 EN 55032:2015 EN 55024:2010 EN 61000-3-2:2014 EN 61000-3-3-2013

6 Support Information

If you experience any problems please call us (617–467–3059) or email support@ivcco.com.

Please note that no equipment (in-warranty or out-of-warranty) should be sent back to IVC without an Return Material Authorization (RMA). Contact IVC support or your IVC sales representative for an RMA.

CAUTION: All installations must insure the camera assembly is mounted securely to ensure that it cannot become dislodged during high wind, accidental bumping or other such incidents. All wiring must comply with NEC, NFPA, and local codes.

NOTE: IVC is not liable for direct or consequential damages resulting from use of this product and IVC makes no guarantees regarding results of intended and unintended use of the product.