



TYPE A:





This Mini PTZ cylinder camera can support both wall mount and ceiling mount. Pan: 0° \sim 180° Tilt: 0° \sim 55°, with Guard Position function.

TYPE B:





This Mini PTZ camera only supports wall mount. Pan: $0^\circ \sim 300^\circ Tilt:$ -5 $^\circ \sim 60^\circ,$ support Guard Position .

TYPE C: (2.5 inch)





TYPE D: (4.5 inch)









TYPE E: (4.5 inch)





TYPE F: (6 inch)



6





TYPE G: (7 inch)



Note: This manual may contain some incorrect information, even though it was published with our carefully proofreading. The new updates will be added to the next release without notice. Your valuable advice is really appreciated.

TYPE H: (5 inch)





TYPE I: (2 inch)





Installation Guide









Figure 1: Working With POE NVR



Figure 2: Working With POE Switch

Note:

1. The camera should be connected to an OPTIONAL 12 volt power supply if you do not use PoE (Power over Ethernet).

2. There are two kinds of zoom lens 2.8-12mm and 5-50mm optional. Please choose 5-50mm zoom lens for long distance video surveillance .

Default: DHCP IP address: 192.168.0.123 , Username: admin, Password: 123456 (We strongly recommend modifying the default password for your security).

Each IP camera has the same default IP address after leaving the factory. In order to guarantee network connectivity and access the live video, it is essential to change the camera's IP address to unique via computer before using.

Before modifying the IP address you'd better confirm the IP network planning and avoid IP address conflict.

Steps on Local Area Windows 10 PC : Search Windows -> cmd -> ipconfig /all



Now you can get all the local network information.

IPv4 Address: 192.168.1.? Subnet Mask: 255.255.255.0 Default gateway: 192.168.1.1 DNS Servers: 192.168.1.1

Note : you can also find out the LAN configuration via Windows GUI



Modifying the camera's IP address

Right-click on the Network icon and select open Network and Sharing Center.

| ontrol Panel Home | View your basic network information and | d set up connections | |
|------------------------|---|--|--|
| hange adapter settings | view your active networks | | |
| hange advanced sharing | Local Area Connection Status | × Access type: Internet | |
| settings | General | Connections: Local Area Connection | |
| | Connection | Network Connection Details | |
| | IPv4 Connectivity: Internet | | |
| | IPv6 Connectivity: No network access | Network Connection Details: | |
| | Media State: Enabled | Property Value | |
| | Duration: 00:13:51 | Connection-specific DN | |
| | Speed: 100.0 Mbps | Description Realtek PCIe GBE Family Controller | |
| | Details 2 | Physical Address 40-61-85-0C-5F-95 | |
| | | DHCP Enabled Yes | |
| | | IPv4 Address 192, 168, 1, 108 | |
| | Activity | - Lassa Ottainad Saturday October 21, 2017 10:15:08 | |
| | | Lease Expires Saturday, October 21, 2017 12:15:08 | |
| | Sent — 🧸 — Received | IPv4 Default Gateway 192.168.1.1 | |
| | 1 | IPv4 DHCP Server 192.168.1.1 2 | |
| | Bytes: 1,138,205 4,928,660 | IPv4 DNS Servers 192.168.1.1 | |
| also | | 192.168.1.1 | |
| meGroup | Properties Disable Diacopse | NetDIDS over Topic En Ven | |
| rared | | Link-local IPv6 Address [w80 th525 234 58d4 98/33 10 | |
| ernet Options | | IPv6 Default Gateway | |
| indowr Firewall | Close | | |

If the camera is installed to work with the local switch or router directly, the camera IP range should be 192.168.1.x (x=2-254). To void IP conflict, you should test and select an unoccupied IP like this:

Command Prompt ping test

| Command Prompt |
|--|
| C:\Users\Administrator≯ <mark>ping 192.168.1.123</mark> |
| Pinging 192, 168, 1.123 with 32 bytes of data: Reply from 192, 168, 1.158; Destination host unreachable. Reply from 192, 168, 1.1; Destination host unreachable. Reply from 192, 168, 1.1; Destination host unreachable. Reply from 192, 168, 1.1; Destination host unreachable. |
| Ping statistics for 192.168.1.123: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), |
| C:\Users\Administrator>ping 192.168.1.41 |
| Pinging 192.188.1.41 with 32 bytas of data: Reply from 192.188.1.41: bytes=22 time=Imm FTL=64 Reply from 192.188.41: bytes=22 time <imm ftl="64<br">Reply from 192.188.41: bytes=22 time<imm ftl="64<br">Reply from 192.188.41: bytes=22 time=Imm FTL=64</imm></imm> |
| Ping statistics for 192.168.1.41: Packets: Sent = 4, Received = 4, Lost = 0 (O% loss), Approximate round trip times in milli=seconds: Minimum = Oms, Maximum = Ims, Average = Oms |
| C:\Users\Administrator> |

Only when reply unreachable that means the IP address is no conflict and available, otherwise when you see time reply do not use this IP address.

There are three methods to modify the camera IP configuration, Search tool, PC Client software and Internet Explorer.



| A11 | Start Sea | rch Export to Exc | el admin | 123456 | QR Automatic printing | | Total: | 2 Seleted |
|-------------------------------|------------|-------------------|----------------------|----------------|---|--|--------|-------------------|
| 7 Address 2 192 168 16 160 | HTTP 80 | Model Model | Title Name Camera | Freview | Threase Version TM90008_AF_V0_8U_Y_EN=RINF=H5_L V3.0.2.3 b | Status Login success | | All subn close |
| 2 192. 168. 16. 161 | 80 | 99950 | Canera | | YM950_AF_V0_BU_Y_EH-H5_L V3.0.2.1 build 2 | 14:59:53 Alarm:motion detect disappear | | close |
| | | | | IP address set | ing × | | | |
| | | | | Start ID | DHCP | | | |
| | | | | End IP | 192 . 168 . 1 . 61 | | | |
| | | | | Netmask | 255 . 255 . 255 . 0 | | | |
| | | | | DNS1 | 192 . 168 . 1 . 1 | | | |
| | | | | DNS2 | 8 . 8 . 8 . 8 | | | |
| | | | | | OK Cancel | | | |
| | | | | | | | | |
| | | | | | | | | |

Click Start Search and all your cameras in the LAN will be listed. Modify IP address to suit the LAN's IP scheme.

1) Click the ALL check-box then click "IP Batch Manual Setting".

2) Click **Check** to verify IP address configuration and click **OK** to save.

it's user-friendly that the search tool can read the computer Network IP address and calculate the camera quantity to match the range of Start IP and End IP.

Tips:

Reset Password ->Restore default settings;

Video Preview -> Click **Preview** buttons;

Firmware upgrade -> Select the check-box, click **Browse** then click **Upgrade** Firmware.

Using the LMS client software for Windows PC

(Default user name: admin, Password: 123456)

| MS | × | | |
|--|---|--------------|--|
| ≜ admin a ⊕ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● | | | |
| | eet Irest David Brockatt States and | ir | ₹ - 87 × • :6:29:50 |
| Campra 22 pp | Stream Video proportion PlayMode DecoderMode | > > > | er e |
| PTZ Ter Caural 82 | Stop LiveView Stop All LiveView Audio Intercom | > | 1994 1994 1994 1994 |
| | Stop All Liveview | | |
| | Synchronizing time Remote Configuration | | |
| ***** | Digital Zoom | > 2021-05-20 | Thursday 16.29:49 |
| | 16 25 36 64 🕑 🕄 | | ଅବନ୍ତର |

Go to the Devices Config and click Start search, all the camera in the LAN will be listed.



Working with Internet Explorer

To access the camera's web interface, type in the IP camera's IP address in Internet Explorer's URL bar to gain access to the login page. Please modify IP address to the same subnet if login page can not load.

(Default user name: admin, Password: 123456)

Edge, Chrome, Firefox, Safari will work via HTML5 without active-x plugin



From the login page, select your familiar language, then log in with the username and password.



Install **Web Plug-in** when red line characters prompted. You may have to download **WEBConfig.exe** and run it as administrator.

5

After installation, restart or refresh your web browser and access the IP again. The live video will start automatically after login successfully.



1. Rotation direction control – Left/Right horizontal rotation angle is up to 180°. Up/Down vertical rotation angle can reach to 55°. Rotation speed can be adjusted.

2. Motorized zoom lens control - camera can do optical Zoom In and Zoom Out.

3. **Preset** -- to remember a position, input a number and click **Add.** Then you can directly go back via call the number. Delete a preset: input a number and click **Del** (Type A camera only supports one preset point)

 Guard Position – 1)remember preset 1: move the camera to an import position then add to preset 1; 2)enable Guard Position: Add preset 76 ->Call preset 1; 3)disable Guard Position: Add preset 76 ->Call preset 2. (TypeA ,Type B and Type I)

5. For more advanced functions, go to Appendix 1 for command list. Keeping pressing on live video and dragging for **Digital Zoom**. If there is a delay in video response when accessing remotely, please switch to Sub Stream instead. To learn the function of each button, just put the mouse on, it will show screen tips.

1) Power System frequency configuration (50Hz/60Hz)

Configuration > Camera > Image > Power Frequency

To avoid the video flicker, the camera should be set to right working frequency to suit the country electric system. The countries that use 60Hz have USA, Canada, Japan, Korea, Taiwan, Brazil, Philippines, Mexico. Other countries apply 50Hz.



- 2) To modify the camera Title name and Time & Date
- Configuration > Camera > Image > OSD > Title Message



Configuration > System > Time setup

There are two time update modes available, Manual and NTP.

| Live Pic | yteck Alerm | Local Setup Configuration | Lopoet |
|-----------------|-------------------------|-----------------------------|--------|
| | Date & Time | | |
| | Update Method | NTP ¥ | |
| | Time Zone | GMT-86.00 V | |
| | | 123 (1-65035) | |
| | Update Period | 1 Minutes (1-15555) | |
| | 🖬 Enable DGT | | |
| 📃 System | Start Time Fret Time | Mar V 2rd V Sonday V 02 V | |
| | | 60 Vindas | |
| Delo & Time | | Result Defealts Refush Save | |
| | | | |
| | | | |
| (i) Information | | | |

- Select your Time Zone, and click PC Sync. Set up your DST (Daylight Savings Time) if needed, click Save. (Time and date will reset to 2000-01-01 if camera restarts)
- b. If the camera is connected to the Internet, you can set up a NTP server for the camera to sync the time and date automatically.
- 3) To enable Motion Detection Alarm
- Configuration > Event > Video Detection

| Una Pay | toot Alarm Local Setup Configuration | | | | Logost |
|---|---|---|--|-------------------|--------|
| | Intelligent Detection | | | | |
| Convers Convers Network T T T T T T T T T T T T T T T T T T | | Area Transfer Area Tr | Z Car Z Bayde V V V V V V V V | S Maraph ■ Ter | |
| () Information | | Ngger Recording | | | |
| | 0 2 4 6 7 9 0 12 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10 | Higger Snapolog 16 20 22 24 74 74 74 74 74 74 74 74 74 74 74 74 74 | | | |

6

When Motion is detected, there is a small alarm light pup up beside the Alarm menu. You can also setup an email address or FTP storage server to receive the motion snapshot. (Trigger recording will work only if memory card or NFS NAS connected.)

Search and download "VideoLink" in Apple App Store or Google Play Store.





- 1. Register an new account
- 2. Select your country or region

Working with mobile device

<

| 2:55 Pf | ⊴ 2.1KB/s © | 44) 🔿 lin. lin". |
|---------|----------------------------------|------------------|
| | | |
| | | |
| | | |
| | Dideeli | -L. |
| | | пк |
| | | |
| Login | | |
| | | |
| | Email | |
| A | Password | 65 |
| | | |
| 🗌 Agi | ree 《User Agreement》 And 《Privac | y policy» |
| For | not produced 2 | |
| 1 OI | got password : | |
| | LOGIN | |
| | Register account | 100 |
| | riegister decount |] © |
| | | |
| | | |
| | | |
| | | |
| | | |
| | (m) | |
| | Hotspot mode | |
| | | |

7

Select Country/Region Ukraine United Arab Emirates United Kingdom United States Minor Outlying Islands United States Samoa United States Virgin Islands United States of America

Uzbekistan

| V | | |
|---------|---------|---|
| Vanuatu | CONFIRM | 0 |
| Vatican | | |

Working with mobile device



- Input your email address and setup a password, tap Send to get the code by email, tap REGISTER ACCOUNT to finish registration.
- 4. Login with the email and password registered in previous step.
- 5. Visit camera web interface, enable P2P function. After a while it will show the QR code.

7

Working with mobile device



 Tap + or ADD NEW and select last menu Wired Connection to scan the camera QR code to add the camera. (Please select the correct option depending on your device.)





7. Tap device list to start live preview

Working with mobile device

4:25 PM | 26.3KB/s 🗇 🔯





Scare: trigger camera alarm Msg: check the event list Intercom: start two-way audio talking Playback: lookup the TF memory video Settings: change camera parameters PTZ: move or zoom the camera

Working with mobile device



8. Share the camera to your family and friends



Note: if you cannot connect the camera, please check your Internet connection and verify the IP address, gateway, and DNS setting in the camera. The Cloud login status should be **online**, which means the camera has registered to the cloud server. You may also want to connect your phone to WiFi for better performance.

The IP camera supports standard ONVIF protocol and it can be added to third-party video recorder. Some of the models support both H.264 and H.265 encode mode. The H.265 encode cameras can compress the video data to a very low bit rates which allows more video data storage than normal H.264 camera. Only configure the camera to H.265 mode when your NVR supports H.265 mode

Before pairing cameras to the NVR, make sure the NVR and cameras have valid and matching IP scheme.

| | | | | | 1 | Camera | | | | |
|----------------------|-------|--------|-------------------|--------------------|--------------|------------|-------------|----------|--|------|
| | | Camera | Advanced | | | | | | | |
| S-Al Camera | | 0 | | QSearch Segment | Modi | fy IP Came | | | | |
| 咏 | | 0.0 | | | | | | | | |
| VCA | | 00 | | 172.16.0.2 | Added | | HK-IPCAM-HI | | | |
| | Image | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| () | | | | | | | | | | |
| | | | | | | | | | | |
| ŝ | | | | | | | | | | |
| Backup | | | Protoci | ol . | ONVI | aress F | | | | |
| | | | | | | | | | | |
| £ | | | | | | | | | | |
| | | | | | | | | | | |
| | | | Passwo Total C | rd amera Number | | | | | | |
| Alarm | | | Extend | ed Transmission | | | | | | |
| % Maintain | | | | | Search | | | | | |
| | | Auto | Switch to H.265 | Auto Switch t | o Smart Enco | odi Oq | ff ©Basic | Advanced | | Exit |

Note: Some of the PoE NVR supports Plug & play, which allows you to get video without manually search and add. if Plug & play feature is not available or not compatible, please follow the NVR manual steps and select ONVIF protocol as the paring protocol. (camera default password: 123456)

If the POE NVR can not discover the connected camera or can not display the camera video, please check it's internal POE interface IP configuration and make sure all connected cameras and NVR POE interface are in the same subnet schema. For more help please contact the both NVR and IP camera suppliers for technical assistance.

Appendix 1 For Type F G

| Functions | Command Steps |
|------------------------------|--|
| | |
| IR MODE | SET 70, CALL T.LED AUTO 2.LED ON 3.LED OFF |
| IR Sens itivity | SET 71, CALL 1-10. 1-10lux (IR open illuminance 1-10Lux) |
| IR Near Power | SET 72, CALL 1-10 |
| IR Far Power | SET 73, CALL 1-10 |
| idle function | SET 76. CALL 1.PRESET 2.SCAN 3.TOUR 4.PATTERN 5.OFF |
| Focus Mode | SET 77, CALL 1.AF ZOOM PUSH MODE(Focus Only When Zoom Changed) 2.AF PTZ PUSH MODE(PTZ or ZOOM will Start Focus) 3.AF AUTO MODE(Auto Mode) |
| Focus Distance | SET 78, CALL 1. 1M5 2. 3M 3. 6M 4.INF |
| Stop movement/End | Call 96 |
| Cruising residence time | SET 75, CALL 1-255 |
| Start Cruising | CALL 98 |
| Set the Start Of Pattern | SET 86 |
| Set the Stop Of Pattern | CALL 96 |
| Start Pattern | CALL 97 |
| Setting Scan Left border | SET 92 |
| Setting Scan Right border | SET 93 |
| Start Scan | CALL 99 |
| Reset | CALL94 |
| Factory Defaut | CALL82 |
| wiper | CALL71 |



Appendix 1 For Type F G

| Functions | Command Steps |
|-------------------------|--------------------------------------|
| Set the Stop Of Pattern | CALL 96 |
| Start Pattern | CALL 97 |
| Scan Speed | SET 87, CALL 1 - 50 |
| lens Init | SET 253, CALL 252 |
| Auto Track Enable | CALL 89 |
| Tracking Default Scene | SET 88 |
| Target Lost dwell time | SET 74, CALL N (seconds), defalt 10s |
| Disable Auto Tracking | SET 96 |

Appendix 2 For Type D E

| IP PTZ Function | Command | Comments |
|---|---------------|--------------------|
| Start SEQUENCE No.1 (Preset:1-7,5s) | Call 65 | |
| Start SEQUENCE No.2 (Preset:9-16,10s) | Call 66 | |
| Start SEQUENCE No.3 (Preset:17-24,15s) | Call 67 | |
| Start SEQUENCE No.4 (Preset:25-32,20s) | Call 68 | |
| Start SEQUENCE No.5 (Preset:33-40,30s) | Call 69 | Start SEQUENCE |
| Start SEQUENCE No.6 (Preset:41-48,60s) | Call 70 | |
| Start SEQUENCE No.7 (Preset:49-56,90s) | Call 72 | |
| Start SEQUENCE No.8 (Preset:57-64,120s) | Call 73 | |
| Stop / End Set | Call 96 | |
| Start A-B Low Speed SCAN | Call 87 | |
| Start A-B middle Speed SCAN | Call 88 | |
| Start A-B High Speed SCAN | Call 89 | |
| Set SCAN Right Border | Set 93 | Scan A – B |
| Set SCAN Left Border | Set 92 | |
| Stop / End Set | Call 96 | |
| Set Guard / idle Action | Set 65+Set pp | pp=1-7, Preset |
| Stop Guard / idla Action | Sat CC | pp=11-18, Sequence |
| Stop Guard / Idle Action | 301 00 | (120seconds start) |
| Set Power on Action | Set 68+Set PP | nn-1-7 Preset |
| Set Power on Action A-B Scan | Set 70 | nn=11-18 Sequence |
| Stop Power on Action | Set 72 | pp=11 10, sequence |
| Erase All Preset | Call 90 | |
| Reload DEFAULT settings | Call 94 | |
| Set Rotate Speed | Set 99+Set pp | pp=20(Range1-64) |
| Enable Auto Tracking | Call 152 | |
| Disable Auto Tracking | Set 152 | |



Appendix 3 For Type H

| IP PTZ Function | Command | Comments |
|--|------------------------------------|------------------|
| Start Sequence Patrol No.1 (Preset:1-32) | Call 41 | |
| Start Sequence Patrol No.2 (Preset:17-32) | Call 42 | |
| Start Sequence Patrol No.3 (Preset:65-80) | Call 43 | |
| Start Sequence Patrol No.4 (Preset:113-182) | Call 44 | |
| Start Sequence Patrol No.5 (Preset:129-144) | Call 45 | |
| Start Sequence Patrol No.6 (Preset:145-160) | Call 46 | |
| Start Sequence Patrol No.7 (Preset:161-176) | Call 47 | |
| Start Sequence Patrol No.8 (Preset:177-192) | Call 48 | |
| Preset dwell time: 4s | Set 51 | |
| Preset dwell time: 6s | Set 52 | |
| Preset dwell time: 8s | Set 53 | Default |
| Preset dwell time: 10s | Set 54 | |
| Preset dwell time: 12s | Set 55 | |
| Auto Tracking: Guard Position | Set 56 or Set 92 | |
| Auto Tracking: Max.Target Tracking time | Set 93 + Set N(N:20-255) | Default: disable |
| Auto Tracking: Target Lost Return time | Set 94 + Set N(N:1-255) | |
| Auto Tracking: Start Target Tracking | Call 56 or 92 | |
| Auto Tracking:Start Sequence Patrol No.1 and Search Target for Tracking | Call 57 or 93 | |
| Auto Tracking: Disable Auto Tracking | Call 58 or 94 | Default: disable |
| Start 360°Pan Scan | Call 96 or 100 | |
| Start A to B Scan | Call 38 | |
| Disable A to B Scan | Set 38 | |
| Set A-B Scan Left Position A | Set 35 | |
| Set A-B Scan Right Position B | Set 36 | |
| Set A-B Scan rotate speed | Set 60 to 64: 3°,6°,9°,15°,40°/sec | |
| Enable Idle Action | Call 105 enable | |
| Disable Idle Action | Set 105 disable | Default: disable |



Appendix 3 For Type H

| IP PTZ Function | Command | Comments |
|---------------------------------------|-------------------------------|--------------|
| Idle Action Type | Call 101:Preset(1) | Default: 90s |
| | Call 102:360° pan scan | |
| | Call 103:A-B scan | |
| | Call 104:Sequence patrol No.1 | |
| Restore Factory Settings | Call 115 | |
| Remove All Preset | Call 33 | |
| Init Drive System | Call 34 | |
| IR Mode: Auto | Call 81 | |
| IR Open | Call 82 | |
| IR Close | Call 83 | |
| IR Sensor: Low | Set 81 | |
| IR Sensor: Middle | Set 82 | |
| IR Sensor: High | Set 83 | |
| Set IR Sensor Delay | Set 110 + Set N (N:36-100) | |
| Set Pan Scan Speed | Set 111 + Set N(N:1-64) | |
| Set Max.Control Speed | Set 113 + Set N(N:1-64) | |
| Set Sequence Patrol Preset dwell time | Set 114 + Set N(N:1-254) | |
| Set Sequence Patrol speed | Set 115 + Set N(N:1-64) | |
| Set Idle Action waiting time | Set 117 + Set N(N:1-254) | Default: 90s |
| Lens Init | Set 253 + Call 252 | |

1. Why can't I open the default IP address 192.168.0.123 via web browser?

Check your computer's IP address before accessing the camera. If the IP address does not match the 192.168.0.x scheme, please install the IP search tool from the CD to modify the camera's IP address. Make sure the IP address of the camera matches the LAN IP scheme. For example, if the LAN is 192.168.1.xxx, then set the IP camera to 192.168.1.123 and so on. Only IE and Firefox ESR windows computer are supported by the camera.

2. How to reset the password?

The default Username: admin, Password: 123456. If you lost the password or would to reset the camera's setting, please install the search tool to search the camera IP and click Reset factory button.

3. How to upgrade the IP camera?

1) Ask the supplier for the suitable firmware

2) you can use the web browser, search tool, or PC client to upgrade the camera

 go to the Configuration > System > update, click browse and select the firmware, then click Upgrade button and wait for the operation to complete.

4. How to fetch the RTSP video stream and http snapshot?

- 1) Main Stream: rtsp://IP:554/h264?username=admin&password=123456
- 2) Sub Stream: rtsp://IP:554/h264cif?username=admin&password=123456
- 3) low resolution snapshot: http://IP/cgi-bin/snapshot.cgi?stream=1
- 4) HD snapshot : http://IP/cgi-bin/snapshot.cgi?stream=0 (only some models)

5. Why does the NVR not show image after adding your IP camera?

- Make sure you selected the right protocol and enter the correct username and password when adding the cameras,
- Make sure the NVR and IP camera are the same IP scheme.(eg. NVR:192.168.1.x, and IP camera:192.168.1.y),
- try changing the camera encode mode to H.264 if the NVR can't support H.265. (Configuration -> Camera -> Video > Encode mode: H.264)

6. How to make the NVR record in motion detection mode?

- 1) Enable the IP camera motion detection function via web browser or Search configure tool,
- 2) add the IP camera via ONVIF protocol,
- 3) change the NVR record mode to Motion Detection mode,
- check the NVR screen MD icon and try playback. Please refer to your NVR manual for NVR motion record option.

7. Where can i control the motorized auto focus lens zoom?

- 1) Using the camera's web interface;
- 2) Control by PC client software LMS;
- 3) Roll the mouse wheel at the search tool preview window;
- 4) Find the PTZ menu in your NVR to control lens zoom.