# IP PTZ CAMERA **USER GUIDE**





















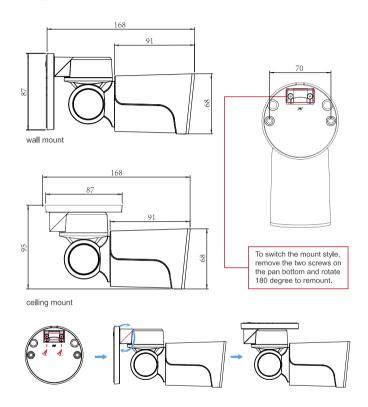






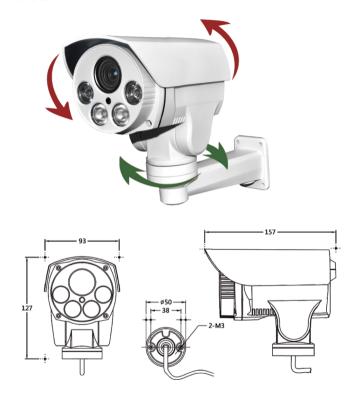


### TYPE A:



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

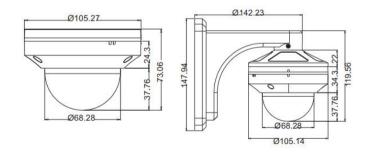
### TYPE B:



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)

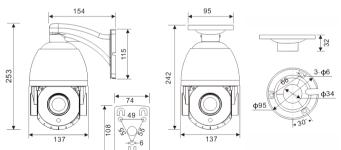






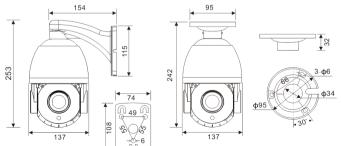
TYPE D: (4.5 inch)





# TYPE E: (4.5 inch)

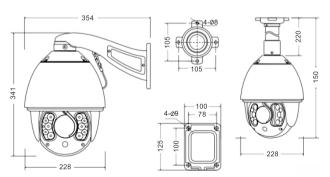






TYPE F: (6 inch)





TYPE G: (7 inch)

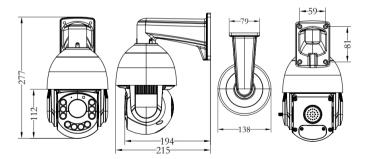


Note: This manual may contain some incorrect information, even though it was published with our carefully proofreading. The new updates will be added to the next release without notice. Your valuable advice is really appreciated.



TYPE H: (5 inch)

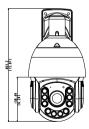




TYPE H: (7 inch)









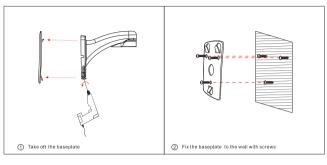


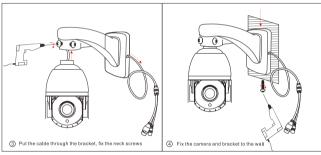
TYPE I: (2 inch)

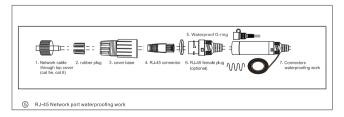




### Installation Guide









# Connecting the camera to system

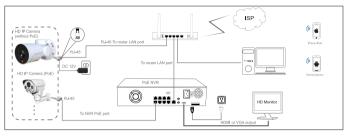


Figure 1: Working With POE NVR

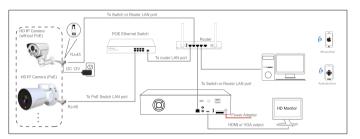


Figure 2: Working With POE Switch

#### 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).

- 1. Each IP camera has DHCP enabled in the first 24 hours uptime.
- After then camera will change itself to static IP address automatically to keep the address allocation stable.
- If router or DHCP server connected in the LAN, cameras can get the correct IP address quickly.
- 4. Run searchtool or NVR to find and add the IP camera to security system.

### Manually static IP addressing

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

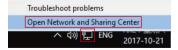
```
## Sthermet adapter Local Area Connection:

| Commaction=pmedific INS Suffix |
| Description | Realtek PCIs GRE Family Controller |
| Provisial Address | 30-61-88-00-57-95 |
| Provisial Address | 40-61-88-00-57-95 |
| High Constant on Emailed | 16-88 |
| Links Local IPEA Address | 198-188 |
| Lasso Ottsined | 23-188 |
| L
```

Now you can get all the local network information.

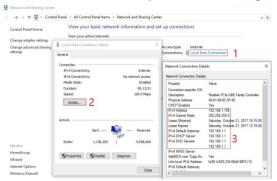
IPv4 Address: 192.168.1.? Subnet Mask: 255.255.255.0 Default gateway: 192.168.1.1 DNS Servers: 192.168.1.1

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.



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:

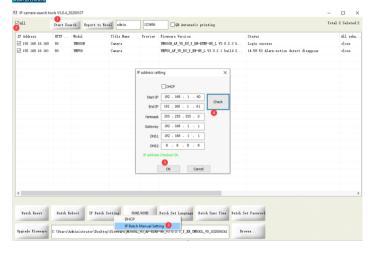
Command Prompt ping test

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.

# **Using Device Search Tool**





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;

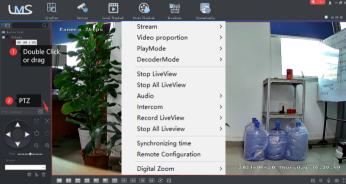
Video Preview -> Click Preview buttons;

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)





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



## **Working with Internet Explorer**

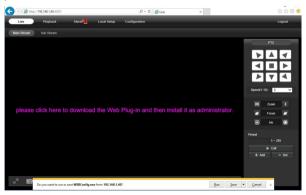
To access the camera's web interface, type in the IP camera's IP address in Internet Explorer's URL bar to gain access to the login page. Please modify IP address to the same subnet if login page can not load.

(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.





# **Working with Internet Explorer**

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

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

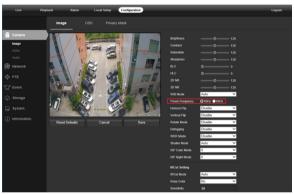


- Rotation direction control Left/Right horizontal rotation angle is up to 180°. Up/Down vertical rotation angle can reach to 55°. Rotation speed can be adjusted.
- 2. Motorized zoom lens control camera can do optical Zoom In and Zoom Out.
- 3. Preset -- to remember a position, input a number and click 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)
- 4. 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.

## **General Configurations**

- 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



## **General Configurations**

### Configuration > System > Time setup

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



- a. 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



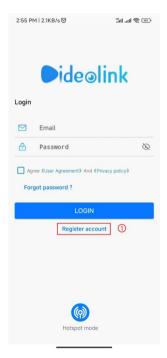
## **General Configurations**

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.)

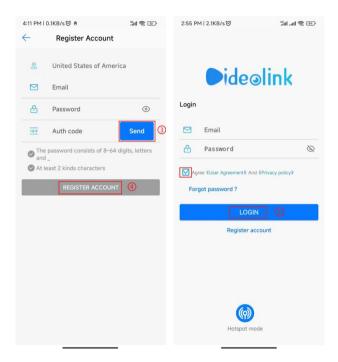
Search and download "VideoLink" in Apple App Store or Google Play Store.



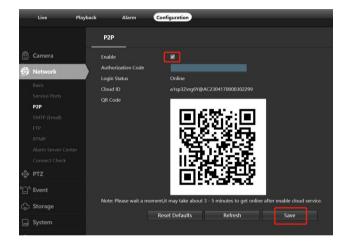
- 1. Register an new account
- 2. Select your country or region



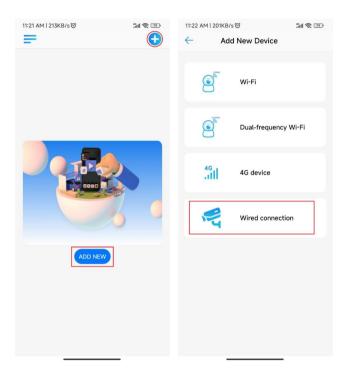




- Input your email address and setup a password, tap Send to get the code by email, tap REGISTER ACCOUNT to finish registration.
- 4. Login with the email and password registered in previous step.
- 5. Visit camera web interface, enable P2P function. After a while it will show the QR code.



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





Scare: trigger camera alarm

Msg: check the event list

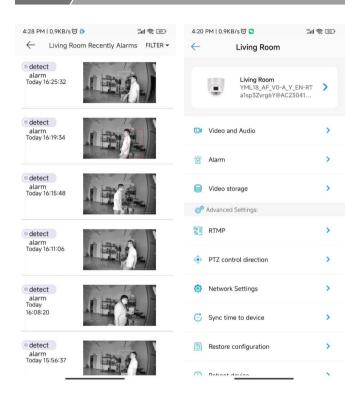
Intercom: start two-way audio talking

Playback: lookup the TF memory video

Settings: change camera parameters

PTZ: move or zoom the camera

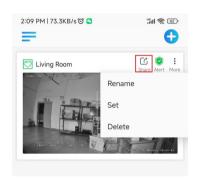


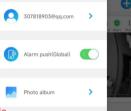


8. Share the camera to your family and friends



## Working with mobile device





### Scan your family or friends account QR code



**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.



## Working with NVR

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.



**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 1.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), defait 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	
Start SEQUENCE No.5 (Preset:33-40,30s)	Call 69		
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 / idle Action	Set 66	pp=11-18, Sequence (120seconds start)	
Set Power on Action	Set 68+Set pp		
Set Power on Action A-B Scan	Set 70	pp=1-7, Preset	
Stop Power on Action	Set 72	pp=11-18, 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
	Call 101:Preset(1)	
Idle Action Type	Call 102:360° pan scan	Default: 90s
idle Action Type	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	

# 10 /

# **Frequently Asked Questions**

### 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.

### 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
- 3) 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),
- 3) 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.