

ZNR / Z-Series Device Port Forwarding Setup SOP

Configuration Principle

- It is recommended to use the **same port number** for internal and external ports to simplify management and troubleshooting.
- In addition to modifying the device's port settings, you must also go to the **Port Mapping** page and manually assign the same port numbers.

Example Configuration

Item	Internal (Private) Setting	External (Public) Mapping
Private IP	192.168.0.50	
HTTP Port	6000	6000
RTSP Port	6001	6001
Public IP		81.223.74.122

NOTE: Port numbers like 6000 and 6001 are just examples. You may assign any available port numbers based on your local network design and to avoid conflicts.

Setup Steps

Step 1: Modify Device Port Settings

1. Log in to the device's web interface.
2. Go to **[Settings] > [Network Configuration] > [Port]**.
3. Modify the following settings (use any available port numbers as needed):
 - a. HTTP Port: e.g., 6000
 - b. RTSP Port: e.g., 6001
4. Click **Save** and log in again.

You can define any unused port numbers based on your network environment and available resources.

The screenshot displays the ACTi web interface's 'Port' configuration page. The left sidebar shows a 'Network' menu with 'Port' selected. The main content area contains the following settings:

Port	
HTTP Port	6000
HTTPS Port	443
RTSP Port	6001
RTSP URL Format	rtsp://<ip>:<port>/unicast/c<channel number>/s<stream type>/live <channel number>: 1-n <stream type>: 0(main stream) or 1(sub stream)
Note: You need to relog in after modifying the HTTP port.	
HTTP Redirect Port	8081
RTSP Redirect Port	8082
Note: HTTP Redirect Port and RTSP Redirect Port are used to access an IP camera in a WAN.	
<button>Save</button>	

Step 2: Manually Configure Port Mapping

1. Go to **[Settings] > [Network Configuration] > [Port Mapping]**.
2. Set **Port Mapping** to **Enabled**.
3. Set the **Mapping Mode** to **Manual**.
4. Make sure the internal and external ports match:
 - a. HTTP: Internal = 6000, External = 6000
 - b. RTSP: Internal = 6001, External = 6001
5. Click **Save**.

Port numbers must match the ones set in Step 1. It is recommended to use the same values, but you may adjust them depending on your external access needs.

ACTi

Live View Playback Setup Smart

Client System Camera Storage Alarm Alert Network

TCP/IP PPPoE DDNS Port

► Port Mapping Email Multicast FTP Custom Route

Port Mapping ☒ On ☐ Off

Mapping Mode Manual

HTTP Port 6000

RTSP Port 6001

HTTPS Port 443

HTTP Redirect Port 8081

RTSP Redirect Port 8082

Note: HTTP Redirect Port and RTSP Redirect Port are used to access an IP camera in a WAN.

Save

Step 3: Configure Port Forwarding on Router / Firewall

1. Log in to your router or firewall interface.
2. Create the following forwarding rules (based on the example):
 - a. External Port 6000 → Internal IP 192.168.0.50:6000
 - b. External Port 6001 → Internal IP 192.168.0.50:6001
3. Save and apply the settings. Reboot Port Forwarding service if necessary.

Step 4: Test External Access

From an external network (e.g., mobile 4G), open a browser and visit:

[http://\[Public IP\]:6000](http://[Public IP]:6000)

NOTES:

- You must re-login to the web UI after changing the port settings.
- Ensure the router/firewall allows traffic through the specified TCP ports.
- If port values are mismatched or port mapping is not properly configured, the device will not be accessible from external networks.