

How to Add IPC to NVR over WAN via WebSocket Protocol

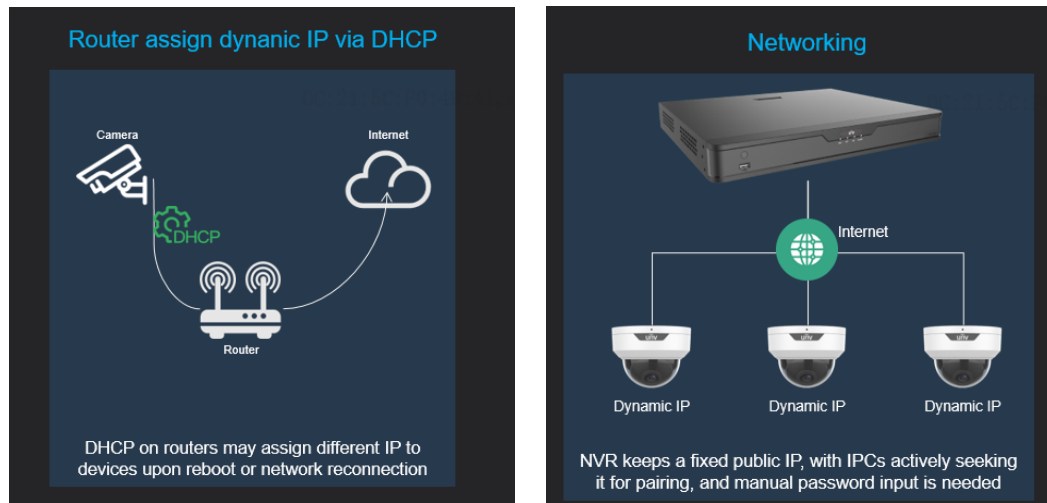
1. Overview

In the public network, many IPCs are deployed in multi-layer NAT, making it impossible for the NVR to add them by their IP addresses. The traditional solution is to access IPCs via the domain name or multi-layer NAT mapping, but the connection may not be stable.

The WebSocket (hereinafter referred to as “WS”) is a protocol that enables full-duplex communication over a single TCP connection. It provides a persistent and bidirectional data transmission channel between clients and servers, allowing IPCs and NVRs to send and receive data in real time without constantly initiating HTTP requests, greatly improving data transmission efficiency and response speed.

2. Function Introduction

Applicable Networking:



The overall implementation principle and process are as follows:

1. The IPC actively initiates a WS connection to the NVR via HTTP.
2. The NVR checks the request and upgrades the HTTP connection to a WS connection.
3. Once the WS connection is established, it remains open until it is disabled by IPC or NVR.
4. The WS connection is full-duplex, so the IPC and NVR can send and receive data simultaneously.

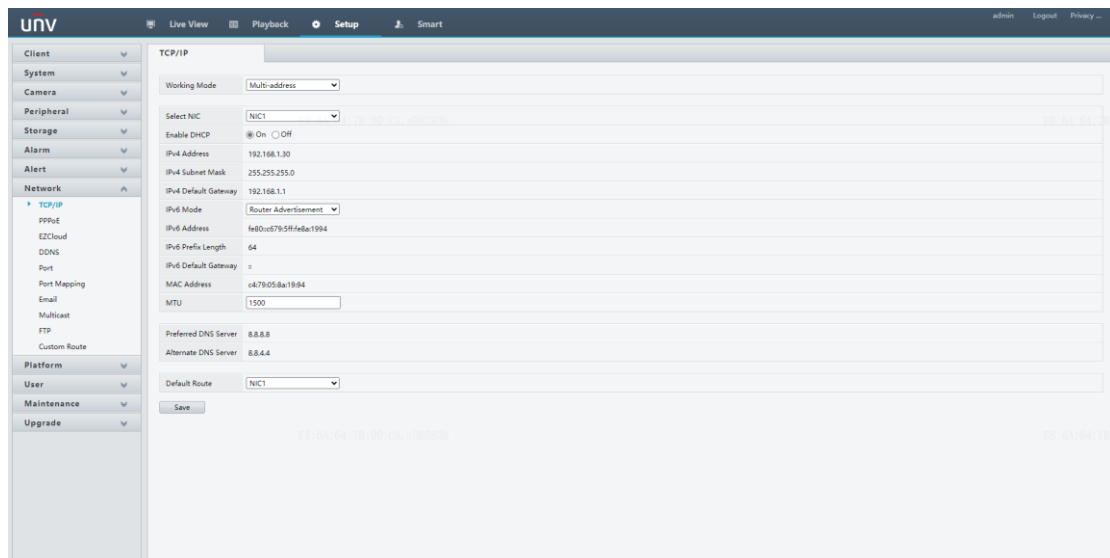
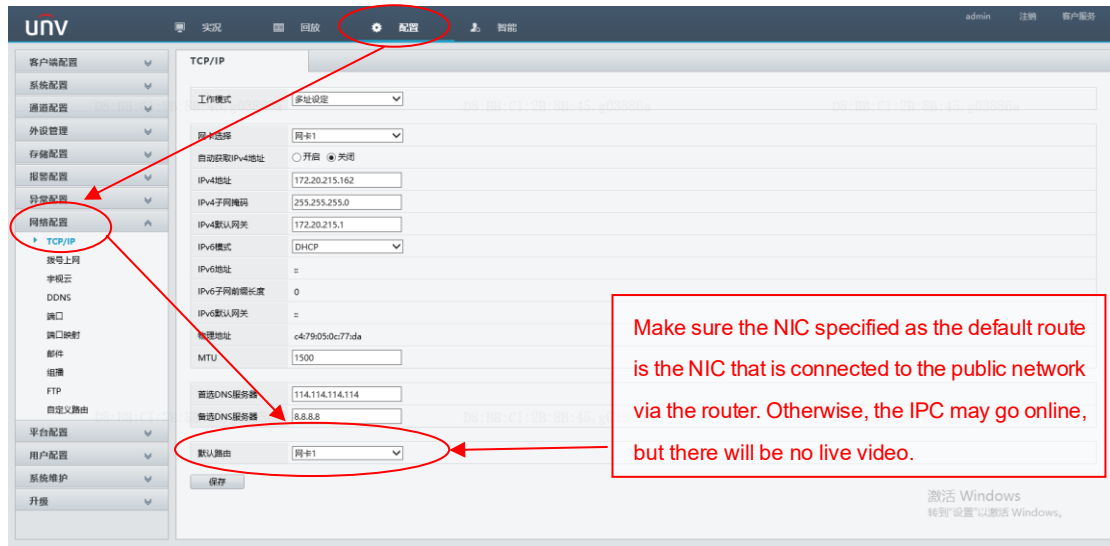
Note: Uniview currently does not support encrypting WS connection via TLS/SSL (WSS protocol). Therefore, before using this function, please assess the communication security risks of the device when used on the public network based on the actual circumstance.

3. Operation Guide

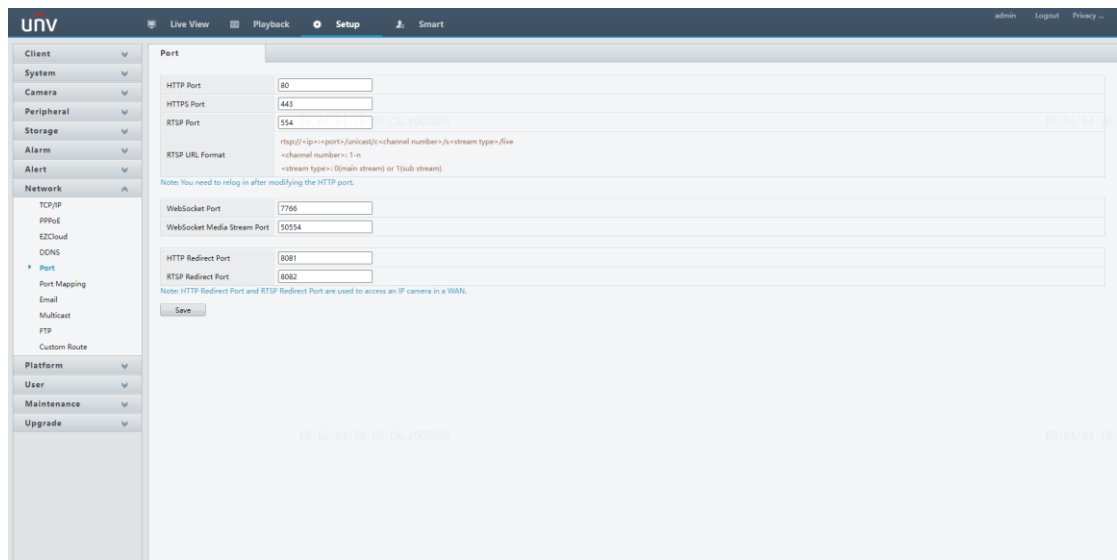
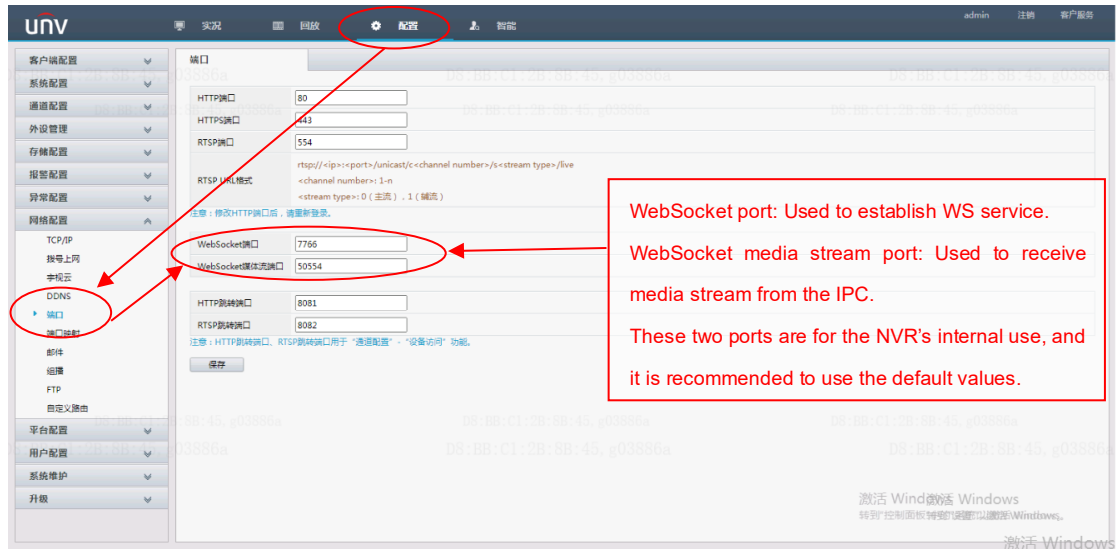
The following introduces how to configure NVR network, configure IPC service, and add IPC to NVR. The NVR network configuration is mainly introduced.

1. Configure NVR Network.

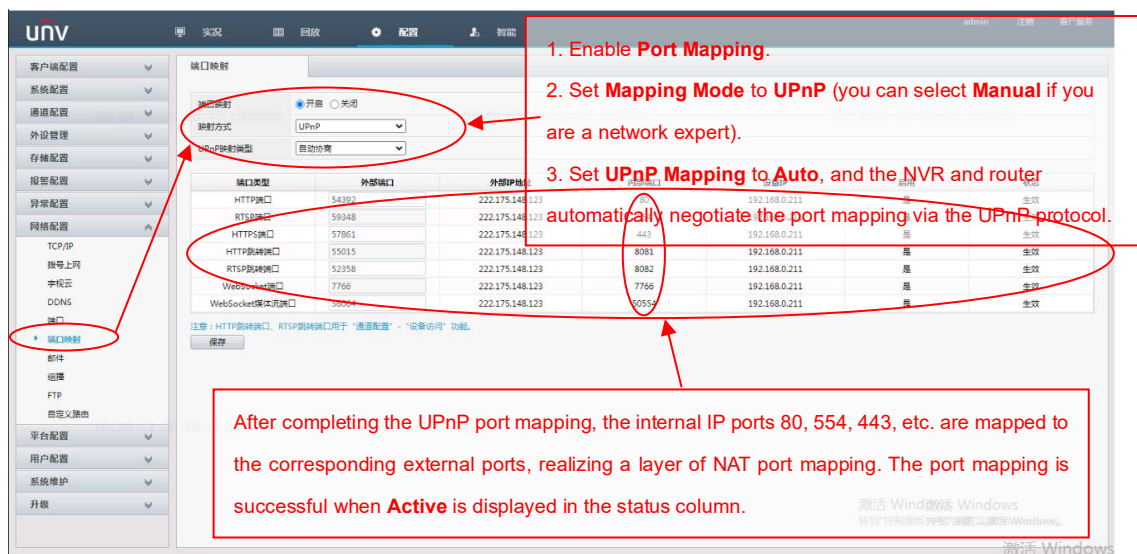
- A. Log in to the router's web interface, and confirm and configure the fixed public IP address.
- B. Power on the NVR and start it up. Log in to the NVR's web interface, and go to **Setup > Network > TCP/IP** to confirm the route information.

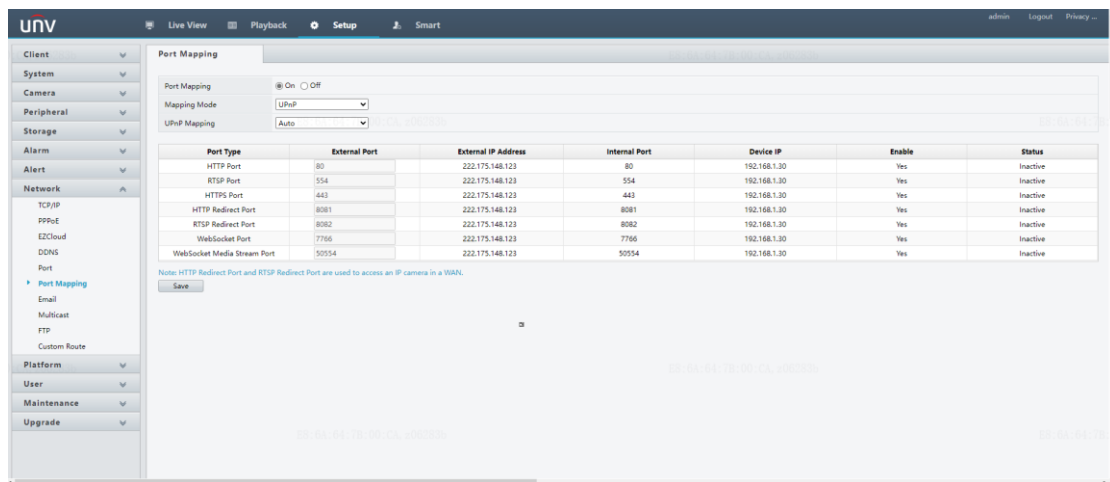


- C. Go to **Setup > Network > Port**, and confirm and change the port information.

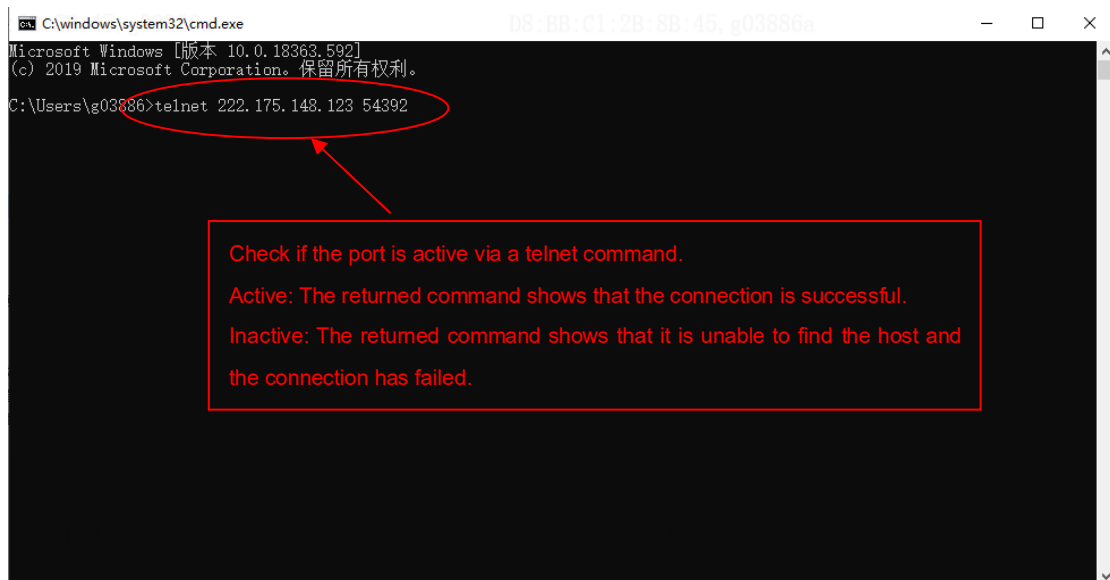


D. Go to **Setup > Network > Port Mapping**, and map the NVR's internal IP address and port to the public network using a single-layer NAT.

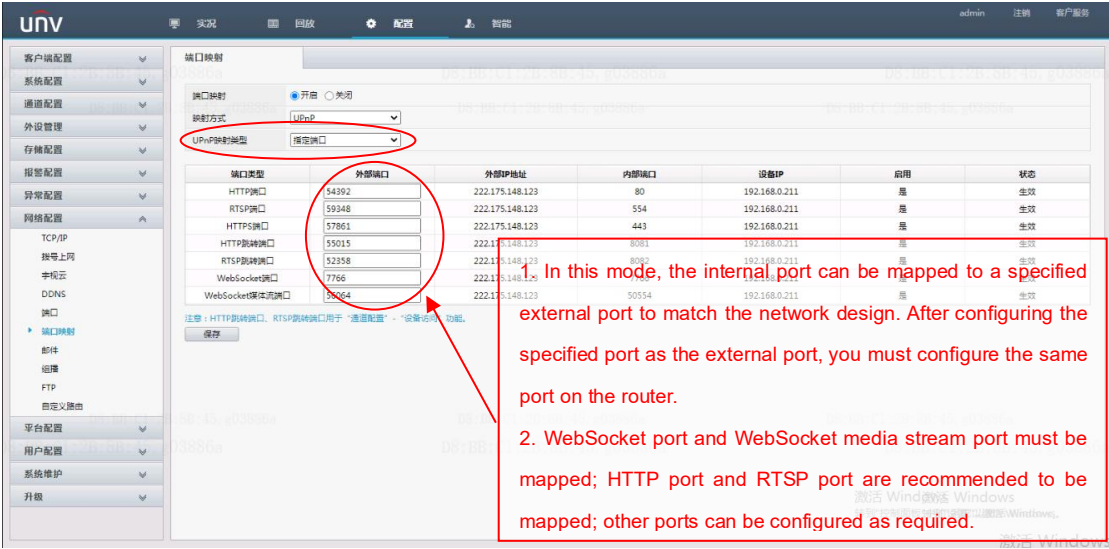




E. Check if the public port mapping is active. For example, to check if the port 80 of the internal IP 192.168.0.211 is mapped to the port 54392 of the public IP 222.175.148.123, you can use the following method.



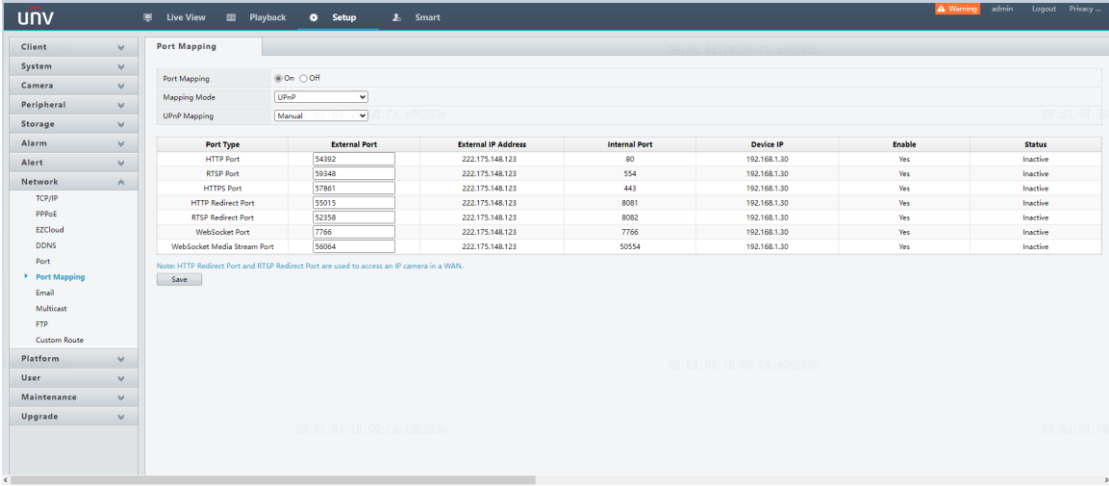
F. Set UPnP Mapping to Specify Ports.



In this mode, the internal port can be mapped to a specified external port to match the network design. After configuring the specified port as the external port, you must configure the same port on the router.

2. WebSocket port and WebSocket media stream port must be mapped; HTTP port and RTSP port are recommended to be mapped; other ports can be configured as required.

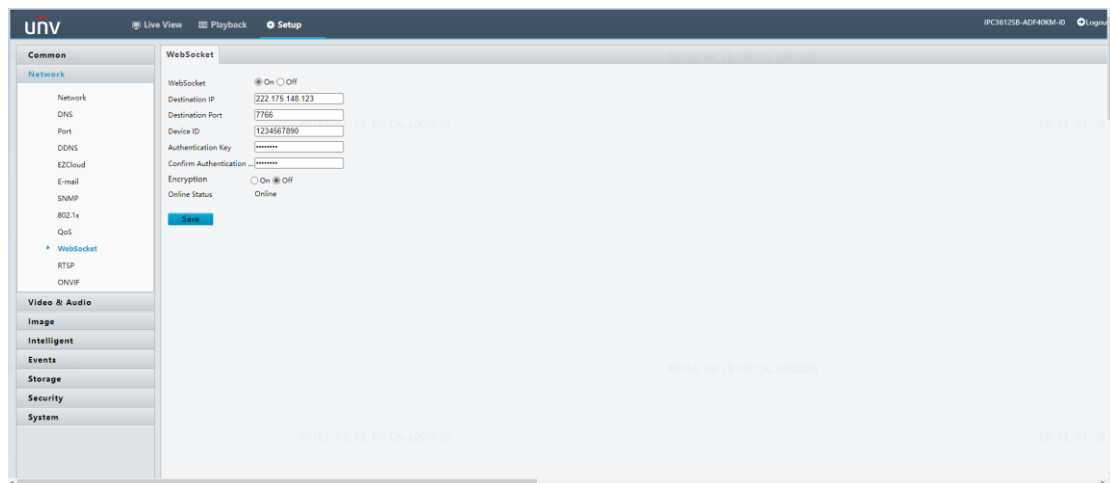
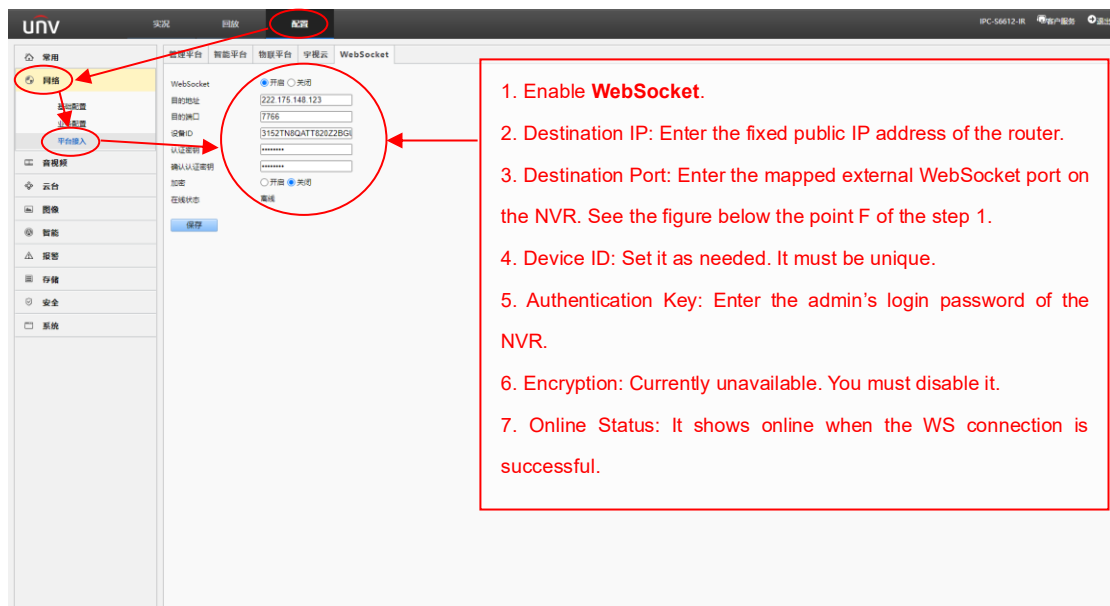
端口类型	外部端口	外部IP地址	内部端口	设备IP	启用	状态
HTTP端口	54392	222.175.148.123	80	192.168.0.211	是	生效
RTSP端口	59348	222.175.148.123	554	192.168.0.211	是	生效
HTTPS端口	57861	222.175.148.123	443	192.168.0.211	是	生效
HTTP Redirect端口	55015	222.175.148.123	8081	192.168.0.211	是	生效
RTSP Redirect端口	52358	222.175.148.123	8082	192.168.0.211	是	生效
WebSocket端口	7766	222.175.148.123	50554	192.168.0.211	是	生效
WebSocket媒体流端口	56064	222.175.148.123	50554	192.168.0.211	是	生效



Port Type	External Port	External IP Address	Internal Port	Device IP	Enable	Status
HTTP Port	54392	222.175.148.123	80	192.168.1.30	Yes	Inactive
RTSP Port	59348	222.175.148.123	554	192.168.1.30	Yes	Inactive
HTTPS Port	57861	222.175.148.123	443	192.168.1.30	Yes	Inactive
HTTP Redirect Port	55015	222.175.148.123	8081	192.168.1.30	Yes	Inactive
RTSP Redirect Port	52358	222.175.148.123	8082	192.168.1.30	Yes	Inactive
WebSocket Port	7766	222.175.148.123	50554	192.168.1.30	Yes	Inactive
WebSocket Media Stream Port	56064	222.175.148.123	50554	192.168.1.30	Yes	Inactive

2. Configure IPC Platform Access

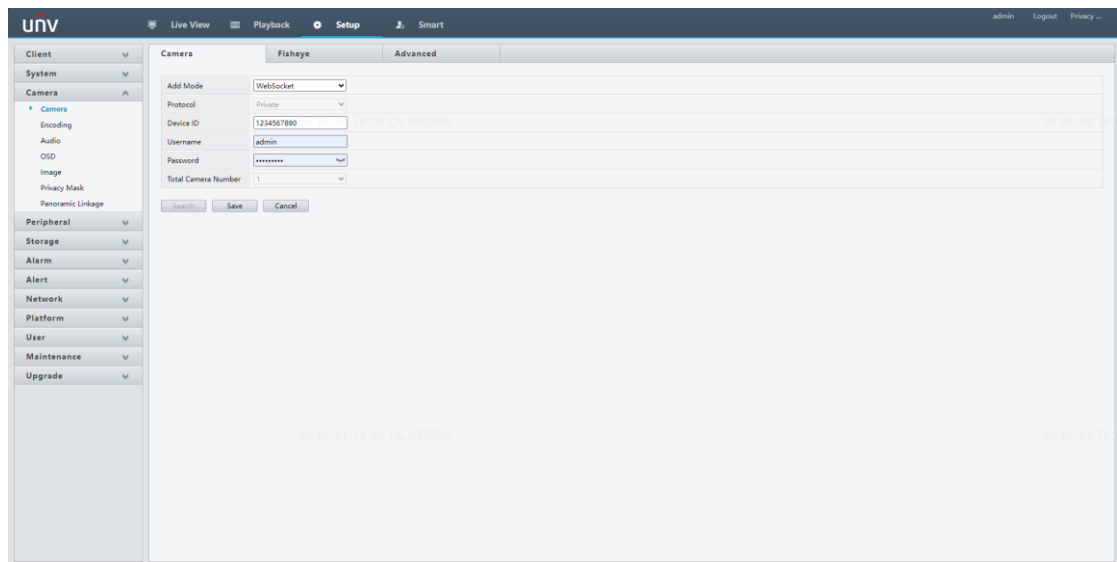
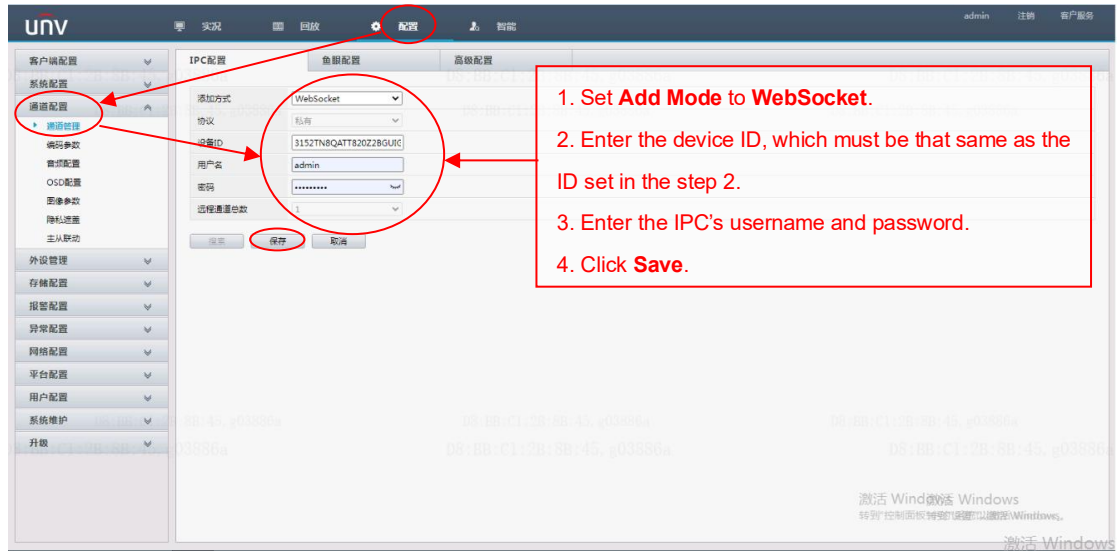
Log in to the IPC's web interface, go to **Setup > Network > Platform Access > WebSocket**, and configure the parameters.



Note: IPC does not support enabling EZCloud and WebSocket at the same time.
EZCloud is enabled by default, so please disable EZCloud before using WebSocket.

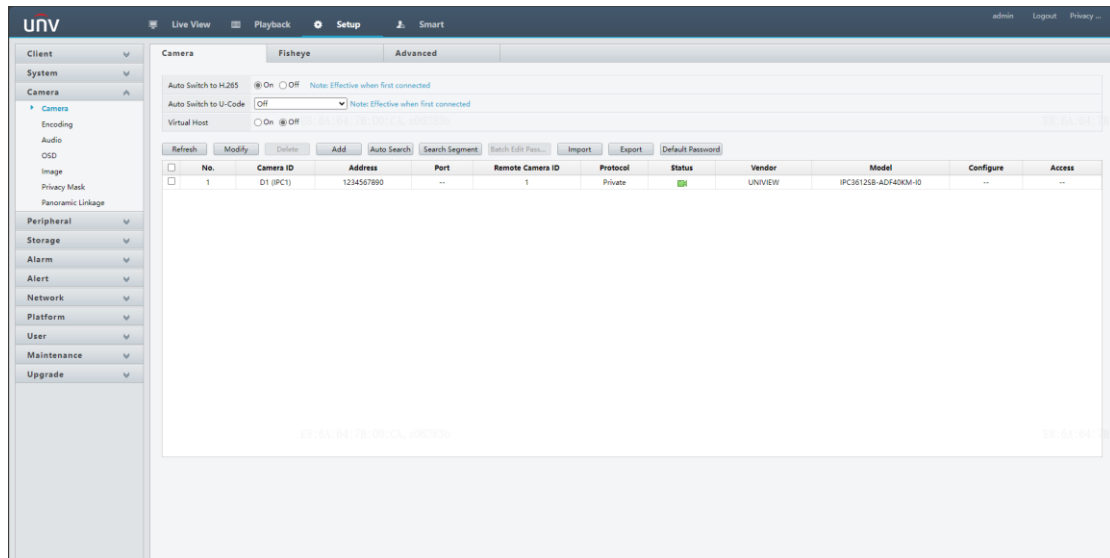
3. Add IPC to NVR

A. Log in to the NVR's web interface, go to **Setup > Camera > Camera**, and click **Add** to add the IPC.



B. Wait for the IPC to go online.





Note: Please be patient and wait for the IPC to go online, as the IPC attempts to register with the NVR via the WebSocket protocol every 30 seconds. If you want to get the IPC online faster, you can disable WebSocket and then enable it on the IPC's web interface.

See the corresponding product guide for other operations.

4. Supplementary Explanation

1. Restrictions

1. The NVR must use the public IP, or map internal IP and corresponding port to the public network within a single-layer NAT.
2. The IPC must support both WebSocket and RTP over WebSocket. If the IPC supports WebSocket but does not support RTP over WebSocket, it may go online on the NVR, but there will be no live video.
3. The NIC specified as the default route on the NVR must be the NIC that is connected to the public network via the router. Otherwise, the IPC may go online on the NVR, but there will be no live video.

2. Functions

A. Available functions:

1. Add IPC via the WebSocket protocol on the local and web interfaces, and show the IPC information on the NVR.

2. Live video viewing, recording, playback on the local and web interfaces, with no frame loss and video stuttering.
3. Configure IPC encoding, audio, OSD, motion detection, UMD, SIP, and face functions.
4. Receive alarms such as motion detection, UMD, SIP, and face alarms.
5. Connect the LPR camera via the WebSocket protocol and receive vehicle detection data.

B. Unavailable functions

1. Automatic network replenishment of IPC to NVR.
2. All PTZ functions, including PTZ rotation, panoramic linkage, etc.
3. Channel maintenance functions, including diagnosis info export, password change, defaults restoring, and restart.
4. Multiple-channel camera connection via the WebSocket protocol.
5. IPC connection via WebSocket encryption.
6. IPC configuration import and export from the NVR.
7. Image parameters obtaining and configuration sync.
8. Privacy mask.
9. Audio detection.
10. IPC upgrade via the NVR.
11. Smart functions except face detection and deep-learning SIP, including camera-side face comparison, smart intrusion prevention, mixed-target detection, road monitoring, temperature measurement, fire detection, smoking detection, smoke and fire detection, elevator entrance detection, high-rise littering, people flow counting, crowd density monitoring, defocus detection, scene change detection, object removed, object left behind, and auto tracking.
12. Heat map.
13. Channel sorting on the local interface.
14. Please check in advance before using other functions not listed.

3. Support Devices

NVR Series	Release time	Release Version
501/502/504/508-B	Q3	D043
501/502/504-B-IQ	Q3	D043
301/302/304-B-IQ	Q3	D043
508-E-R,504-E-IQ,508-E-(R)-IQ	Q3	D043
516-E-R, 524-E	Q3	D043
304/308-X	Q3	D043
504-E-P-IQ, 509-E-IQ	Q3	D043
816/824	Q3	D043

支持系列	支持版本
IPC325SB series: IPC325SB-DF28K-I0 、 IPC325SB-DF40K-I0	GIPC-B6202.17.7.250508
IPC2125SBseries: IPC2125SB-ADF28KM-I0、 IPC2125SB-ADF40KM-I0	GIPC-B6202.17.7.250508
IPC3615SB series: IPC3615SB-ADF28KM-I0、 IPC3615SB-ADF40KM-I0 、 IPC3615SB- ADF28KMC-I0、 IPC3615SB-ADF40KMC-I0	GIPC-B6202.17.7.250508
IPC3635SB series: IPC3635SB-ADZK-I0	GIPC-B6202.17.7.250508
IPC3235SB series: IPC3235SB-ADZK-I0	GIPC-B6202.17.7.250508
IPC2325SB series: IPC2325SB-DZK-I0	GIPC-B6202.17.7.250508
IPC2225SEseries : IPC2225SE-DF40K-WL 、 IPC2225SE-DF60K-WL	GIPC-B6202.17.7.250508
IPC3615SEseries: IPC3615SE-ADF28KM-WL、 IPC3615SE-ADF40KM-WL 、 IPC3615SE- ADF28KM-WL-I0、 IPC3615SE-ADF40KM-WL- I0	GIPC-B6202.17.7.250508
IPC2324SBseries: IPC2324SB-DZK-I0	GIPC-B6202.17.7.250508
IPC2322SBseries: IPC2322SB-DZK-I0	GIPC-B6202.17.7.250508
IPC2122SBseries: IPC2122SB-ADF28KM-I0、 IPC2122SB-ADF40KM-I0	GIPC-B6202.17.7.250508
IPC3632SBseries: IPC3632SB-ADZK-I0	GIPC-B6202.17.7.250508
IPC3232SBseries: IPC3232SB-ADZK-I0	GIPC-B6202.17.7.250508
IPC3234SBseries: IPC3234SB-ADZK-I0	GIPC-B6202.17.7.250508
IPC324SBseries : IPC324SB-DF28K-I0 、 IPC324SB-DF40K-I0	GIPC-B6202.17.7.250508
IPC3614SBseries: IPC3614SB-ADF28KM-I0、 IPC3614SB-ADF40KM-I0 、 IPC3614SB- ADF28KMC-I0、 IPC3614SB-ADF40KMC-I0	GIPC-B6202.17.7.250508

IPC2124SBseries: IPC2124SB-ADF28KM-I0、 IPC2124SB-ADF40KM-I0	GIPC-B6202.17.7.250508
IPC3634SBseries: IPC3634SB-ADZK-I0	GIPC-B6202.17.7.250508
IPC322SBseries : IPC322SB-DF28K-I0 、 IPC322SB-DF40K-I0	GIPC-B6202.17.7.250508
IPC3612SBseries: IPC3612SB-ADF28KM-I0、 IPC3612SB-ADF40KM-I0	GIPC-B6202.17.7.250508
IPC312SB series: IPC312SB-ADF28K-I0	GIPC-B6202.17.7.250508
IPC2124LE series: IPC2124LE-ADF28KM-G、 IPC2124LE-ADF40KM-G 、 IPC2124LE- ADF28KMC-WL、 IPC2124LE-ADF40KMC-WL	GIPC-B6202.17.7.250508
IPC324LE series : IPC324LE-DSF28K-G 、 IPC324LE-DSF40K-G	GIPC-B6202.17.7.250508
IPC3614LEseries : IPC3614LE-ADF28K-G 、 IPC3614LE-ADF40K-G、 IPC3614LE-ADF28KC- WL、 IPC3614LE-ADF40KC-WL	GIPC-B6202.17.7.250508
IPC2324LB series: IPC2324LB-ADZK-G	GIPC-B6202.17.7.250508
IPC3634LB series: IPC3634LB-ADZK-G	GIPC-B6202.17.7.250508
IPC3534LB series: IPC3534LB-ADZK-G	GIPC-B6202.17.7.250508
IPC314SB series: IPC314SB-ADF28K-M12-I0、 IPC314SB-ADF28K-I0	GIPC-B6202.17.7.250508
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IPC3615LE series : IPC3615LE-ADF28K-G 、 IPC3615LE-ADF40K-G	GIPC-B6202.17.7.250508
IPC325LE series : IPC325LE-ADF28K-G 、 IPC325LE-ADF40K-G	GIPC-B6202.17.7.250508
IPC series: IPC-B314-APKZ-SC、 IPC-D314- APKZ-SC 、 IPC-T314-APKZ-SC 、 IPC-B315- APKZ-SC 、 IPC-D315-APKZ-SC 、 IPC-T315- APKZ-SC、 IPC-B314-APKZ、 IPC-D314-APKZ、 IPC-T314-APKZ、 IPC-B315-APKZ、 IPC-D315- APKZ、 IPC-T315-APKZ、 IPC-B128-APF28KM、 IPC-B128-APF40KM	GIPC-B6202.17.7.250508
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IPC2125SBseries: IPC2125SB-ADF28KMC-I0、 IPC2125SB-ADF40KMC-I0	GIPC-B6202.17.7.250508

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IPC2A12LP series: IPC2A12LP-ADF40KC-4G- E、 IPC2A12LP-ADF60KC-4G-E	GIPC-B6202.17.7.250508
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IPC2328SB series: IPC2328SB-DZK-I0	GIPC-B6203.16.7.250508
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IPC86CEB series: IPC86CEB-AF18KC-I0	GIPC-B6209.7.7.250508
IPC2B12SS series: IPC2B12SS-ADF28K-I1 、IPC2B12SS-ADF40K-I1	GIPC-B6211.5.7.250508
IPC2B15SS series: IPC2B15SS-ADF28K-I1 、IPC2B15SS-ADF40K-I1	GIPC-B6211.5.7.250508
IPC3612SS series: IPC3612SS-ADF28K-I1 、IPC3612SS-ADF40K-I1	GIPC-B6211.5.7.250508
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IPC324SS series: IPC324SS-ADF28K-I1 、IPC324SS-ADF40K-I1	GIPC-B6211.5.7.250508
IPC325SS series: IPC325SS-ADF28K-I1 、IPC325SS-ADF40K-I1	GIPC-B6211.5.7.250508
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IPC3222SS series: IPC3222SS-ADF28K-I1 、 IPC3222SS-ADF40K-I1	GIPC-B6212.3.7.250508
IPC3224SS series: IPC3224SS-ADF28K-I1、 IPC3224SS-ADF40K-I1	GIPC-B6212.3.7.250508
IPC2K28SE series: IPC2K28SE-ADF40KMC- WL-I0	GIPC-B6212.3.7.250508
IPC3K28SE: IPC3K28SE-ADF28KMC-DL-I0	GIPC-B6212.3.7.250508
IPC2B15SS series: IPC2B15SS-ADF28KMC- I1、IPC2B15SS-ADF40KMC-I1	GIPC-B6213.5.7.250508
IPC2B18SS series: IPC2B18SS-ADF28KMC- I1、IPC2B18SS-ADF40KMC-I1、IPC2B18SS- ADF28K-I1、IPC2B18SS-ADF40K-I1	GIPC-B6213.5.7.250508
IPC3635SS series: IPC3635SS-ADF28KMC- I1、IPC3635SS-ADF40KMC-I1	GIPC-B6213.5.7.250508
IPC3638SS series: IPC3638SS-ADF28KMC- I1、IPC3638SS-ADF40KMC-I1、IPC3638SS- ADF28K-I1	GIPC-B6213.5.7.250508
IPC2108SB series: IPC2108SB-ADF16KM-I0	GIPC-B6213.5.7.250508
IPC3608SB series: IPC3608SB-ADF16KM-I0	GIPC-B6213.5.7.250508
IPC3634SS series: IPC3634SS-ADF28KMC- I1、IPC3634SS-ADF40KMC-I1	GIPC-B6213.5.7.250508
IPC2B14SS series: IPC2B14SS-ADF28KMC- I1、IPC2B14SS-ADF40KMC-I1	GIPC-B6213.5.7.250508
IPC328SS series: IPC328SS-ADF28K-I1、 IPC328SS-ADF40K-I1	GIPC-B6213.5.7.250508
IPC3618SS series: IPC3618SS-ADF28K-I1、 IPC3618SS-ADF40K-I1	GIPC-B6213.5.7.250508
IPC2314LE series: IPC2314LE-ADF28KM- WL、IPC2314LE-ADF40KM-WL	DIPC-B1230.8.5.250523
IPC3624LE series: IPC3624LE-ADF28K-WL、 IPC3624LE-ADF40K-WL	DIPC-B1230.8.5.250523
IPC2322LB series: IPC2322LB-ADZK-H	DIPC-B1230.8.5.250523
IPC2324LB series: IPC2324LB-ADZK-H	DIPC-B1230.8.5.250523
IPC2325LB series: IPC2325LB-ADZK-H	DIPC-B1230.8.5.250523
IPC3632LB series: IPC3632LB-ADZK-H	DIPC-B1230.8.5.250523
IPC3634LB series: IPC3634LB-ADZK-H	DIPC-B1230.8.5.250523
IPC3635LB series: IPC3635LB-ADZK-H	DIPC-B1230.8.5.250523
IPC3532LB series: IPC3532LB-ADZK-H	DIPC-B1230.8.5.250523
IPC3534LB series: IPC3534LB-ADZK-H 、 IPC3534LB-ADEZK-H	DIPC-B1230.8.5.250523
IPC3535LB series: IPC3535LB-ADZK-H	DIPC-B1230.8.5.250523
IPC2122LB series: IPC2122LB-ADF28KM-H、 IPC2122LB-ADF40KM-H	DIPC-B1230.8.5.250523

IPC322LB series: IPC322LB-ADF28K-H、 IPC322LB-ADF40K-H	DIPC-B1230.8.5.250523
IPC3612LB series: IPC3612LB-ADF28K-H、 IPC3612LB-ADF40K-H	DIPC-B1230.8.5.250523
IPC2124LB series: IPC2124LB-ADF28KM-H、 IPC2124LB-ADF40KM-H、IPC2124LB- ASF28K-A、IPC2124LB-ASF40K-A、 IPC2124LB-AF28K-DL、IPC2124LB-AF40K-DL	DIPC-B1230.8.5.250523
IPC324LB series: IPC324LB-ADF28K-H、 IPC324LB-ADF40K-H	DIPC-B1230.8.5.250523
IPC2322LB series: IPC2322LB-ADEZK-H	DIPC-B1230.8.5.250523
IPC3532LB series: IPC3532LB-ADEZK-H	DIPC-B1230.8.5.250523
IPC2324LB series: IPC2324LB-ADEZK-H	DIPC-B1230.8.5.250523
IPC3614LB series: IPC3614LB-ADF28K-H、 IPC3614LB-ADF40K-H、IPC3614LB-AF28K-DL	DIPC-B1230.8.5.250523
IPC2122LE series: IPC2122LE-ADF28KMC- DL、IPC2122LE-ADF40KMC-DL	DIPC-B1230.8.5.250523
IPC2124LE series: IPC2124LE-ADF28KMC- DL、IPC2124LE-ADF40KMC-DL	DIPC-B1230.8.5.250523
IPC3614LE series: IPC3614LE-ADF28KC-DL、 IPC3614LE-ADF40KC-DL	DIPC-B1230.8.5.250523
IPC3612LE series: IPC3612LE-ADF28KC-DL、 IPC3612LE-ADF40KC-DL	DIPC-B1230.8.5.250523
IPC2124LE series: IPC2124LE-ADF28KM-H、 IPC2124LE-ADF40KM-H	DIPC-B1232.7.5.250523
IPC324LE series: IPC324LE-ADF28K-H、 IPC324LE-ADF40K-H	DIPC-B1232.7.5.250523
IPC3614LE series: IPC3614LE-ADF28K-H 、 IPC3614LE-ADF40K-H	DIPC-B1232.7.5.250523
IPC2125LE series: IPC2125LE-ADF28KM-H 、 IPC2125LE-ADF40KM-H	DIPC-B1232.7.5.250523
IPC325LE series: IPC325LE-ADF28K-H 、 IPC325LE-ADF40K-H	DIPC-B1232.7.5.250523
IPC3615LE series: IPC3615LE-ADF28K-H 、 IPC3615LE-ADF40K-H	DIPC-B1232.7.5.250523