

How to Configure Multicast

Description

Every device has access limit. If the total number of people trying to visit and preview the device via Internet is more than the limit, the rest would be unable to preview. In order to avoid this phenomenon, we can configure the device with a multicast IP and try to access the device through multicast protocol.

Preparation

- 1, Download the plug-in in the web browser.
- 2, Download ivms-4200 and install it on PC.
- 3, A switch which supports multi-casting function.

Note:

1, If a different version of iVMS-4200 has been installed on the PC, please uninstall it first via InstallShield Wizard and delete the file folder which was created during previous installation process.

- 2, Different IPC requires different multicast IP addresses.
- 3, The multicast IP configured in the IP camera belongs to multicast group.

How to configure multicast via IE:

Steps:

1. Access to the device via browser.



Cogin - Windows Interne	t Explorer 19.6.206:93/doc/page/login.asp?_1455619836561		- + X Bing
Favorites 🍰	input the IP address of <u>your</u> camera		Å • N • □ ♣ • P
HIK VISION			
		input the user name and password of the camera	UserName
			Login

2, Select **Configuration-> Network-> Basic Settings-> TCP/IP-> Lan**, fill in the Multicast Address.

HII	VISION	Live View Play	back	Picture	Application	Configuration
P	Local System	TCP/IP DDNS PP	POE Port	NAT		
©	Network Basic Settings	NIC Type	Auto		•	
Q:	Advanced Settings Video/Audio	IPv4 Address IPv4 Subnet Mask	10.9.6.20 255.255.25	55.0	Test	
	Event Storage	IPv6 Mode IPv6 Address	10.9.6.254 Route Adv	ertisement	▼ View R	oute Advertisement
2	Counting	IPv6 Subnet Mask IPv6 Default Gateway Mac Address	0 :: 44:19:b6:6	e:d0:08		
		MTU	1500			
		Multicast Address	239.255.22	22.222 Multicast Discovery	IP ac 239.2 239.2	ldress ranges from 252.0.0~ 255.255.255 is
		DNS Server			reco	mmended
		Preferred DNS Server Alternate DNS Server	8.8.8.8			

3, Select Configuration->Local-> Live View Parameters, select MULTICAST



HIKVISION	Live View	Playback	Picture	Application	Configuration	
Local	Live View P	Parameters				
System	Protocol		◎ TCP	○ UDP	MULTICAST	HTTP
Network	Play Perfo	rmance	Shortest Delay	Auto		
Video/Audio	Rules		Enable	Oisable		
🔝 Image	Image Fo	rmat	JPEG	◎ BMP		

4, If there is someone else from **another PC** trying to view the device via web browser, just repeat step 3.

How to configure multicast via iVMS-4200:

Steps:

1, Enter Device Management interface.



2, Select one online device and click the Add to Client button. Type in the **Nickname**, **IP** address, **Port**, **Username and Password** (if the device is registered with HiDDNS, then the Device Domain Name and Server Name are required, click the checkbox of **Export to group** and click the **Add** button to add the device into iVMS-4200.



File System View Tool Help	🖄 iVMS-4200 admin 🔀 📼 i	🖺 15:04:12 🔒 🗕 🗖
📲 Control Panel 🔂 Mai	View 🚡 Remote Playback 🛃 Device Management 🥽 Record Schedule	
Server 🗃 Group		
Organization	Device for Management (1)	
Encoding Device	Add ×	Filter
🛲 Decoding Device	Nickname A I	IDD Status Recordin
💼 storage server	IP/Domain IP Segment IP Server HIDDNS IPServer HIDDNS	0 0
👖 Stream Media Server	Add Offline Device	
	Nickname: IP camera	
	Address: 10.19.1.251	
	Port. 8000	
	Name: admin	
	Password:	
	Export o group Set the device name as the group name and add all the channels connected to the device to the group.	
	Online Device (1)	
	Add to Client	Filter
	IP A Device type Port Device Senartyo.	Added
	10.19.1.251 DS-2CD7164-E 8000 DS-2CD7164-E0120130715BBRR427215616	Yes
Encoding device can be added: DVR/DVS/NVR/IPC/IPD/iVMS-4200 PCNVR/IVMS-4200 Encoding Server		

3, Select the device and click **Remote Configuration-> Configuration-> General->** fill in the Multicast Address.

File System View Tool Help		/♪ iVMS-4200	jia	nghuaiyu 💮 💷 🎬 1
Control Panel 🕞 Ma	ain View 🚡 Remote Playback	🚔 Device Management 💦 Storage So	shedule	
Server 🗐 Group				
Organization	Device for Management (2)			
📾 Encoding Device/Outdoor	🕂 Add Device 🏼 Modify 🗶 Delete	🔹 Remote Configuration 🇱 QR Code 🛛 🥊 Activate	📀 Refresh All	Filter
Decoding Device	Nickname A IP Devi	ce Serial No. Security	Net Status HDD Status	Recording Status Si
🜉 Cascading Server		Remote Configuration		
EZVIZ Cloud P2P Device	🖃 🚳 System	Configuring the Network Parameters		
Video Wall Controller	Device Information	NIC Type: 10M/100M/1000M S	Self-a 🗸	
Third-party Encoding Device		Auto-obtain		
Security Control Panel	System Maintenance	IPv4 Address: 10.9.6.20	Test	
Indoor Station/Master Station	B D0000	Subnet Mask (IPv4): 255.255.255.0		
🚮 Storage Server	- DO 405	Default Gateway (IPv4): 10.9.6.254		
🚮 Stream Media Server	W R5485	IPv6 Mode: Router Advertiseme	ent 🗸	
	See Log	IPv6 Address:	~	
	👹 User	Default Gateway (IPv6):		
	Service	MAC Address: 44:19:b6:6e:d0:08		
	Security	MTU(Byte): 1500		
	🖃 🌑 Network	Device Port 8000		
	🌸 General	Multicast Address: 239.255.222.222		
Encoding device/Outdoor Device:	DDNS	Enable Multicas	t Disco	
DVR/DVS/NVR/IPC/IPD/iVMS-4200	PPP0E	HTTP Port: 80		
server/Outdoor Device/Door Station	SNMP	RTSP Port. 10054		
for Villa/Door Station for Apartment	<pre> FTP </pre>			Save

4, Select the device and click Group-> Device group-> Encoding channel-> Modify-> Protocol Type-> select MCAST.



File System View Tool Help		ivms-4	1200
Control Panel	ain View 🛅 Remote Playback	🚔 Device Management	Torage Schedule
📰 Server 🗃 Group			
Resource 🗔 😪	Encoding Channel Resources of Group 10	.9.6.20(1)	
Search P	🕂 Import 📝 Modify 🗙 Delete 🕴	Remote Configuration	
🕑 😂 DF6236	Nickname	* IP	Device Serial No.
🖃 🚭 10.9.6.20	Camera1_10.9.6.20	10.9.6.20	DS-2CD4032FWD-APW20140903CCW
Encoding Channel		Modify Camera	×
Alarm Input			Name:
Anning Region Resource			Camera1_10.9.6.20
	A STATE AND A STATE	A P V	Video Stream:
			Main Stream -
		1 Aud	Protocol Type:
			MCAST
			Stream Media Server
			second v
			SMS Management
			Copy Parameters:
	IPCamera 02		Copy to
			Get New Picture:
		1	Refresh
			OK Cancel

5, If there is someone else trying to live view the device via iVMS-4200, just repeat step 2.

How to configure multicast locally:

Steps:

Select Menu->Configuration->Network->More Settings, fill in the Multicast IP.



		Configu	uration				
尊 General	General PPPOE	DDNS NTP	Email	SNMP	NAT	More Settings	3
♣ Network >	Alarm Host IP Alarm Host Port	0					
\land Alarm	Server Port	0					
∉ RS-232	HTTP Port	0					
 ▲ Live View 	Multicast IP RTSP Port	239.25	2.3.3				
▲ Exceptions	Enable High-speed	Dow					
👪 User							
▲ Live View						Apply	Back

Multicast versus Stream Media Server

Both multicast and stream media server are used to decrease the pressure getting stream from the device with great effects. One of the disadvantages of multicast preview is that the switch must support multicast function.



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