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#### **Summary**

**Guarding Vision** is a new service introduced which integrates the dynamic domain name Service along with alarm push notification service. It provides an easy way for devices to connect to the Internet.

This manual is a guide for users to show them how to add Guarding Vision service.

#### Note:

In order to improve your user experience, we recommend you enable the **UPnP** function in both your router and device, or configure **Ports Forwarding** manually in your router. You still can use Guarding Vision service even if you don't enable **UPnP** or configure **ports forwarding** manually; however, you cannot use Hik-Connect domain name service.

### Discretion

User interface may not be identical to the instructions shown below depending on the product, firmware version. However, the information and settings required to setup Guarding Vision services are similar across all supporting products.

## **Preparation**

Users need to upgrade device to proper firmware that supports Grding Vision Service.

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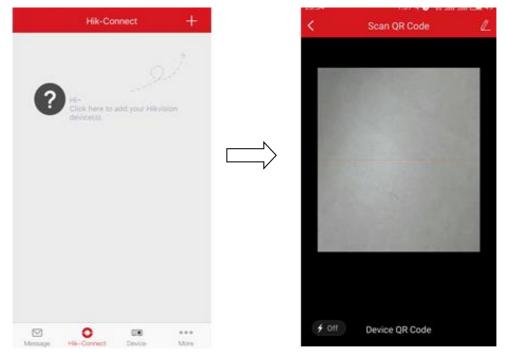
# How to add devices into Guarding Vision account

Users can enable Guarding Vision function via Guarding Vision APP; www.guardingvision.com web portal; Guarding Vision app or Guarding Expert client.

## Method 1: Add devices via Guarding Vision APP

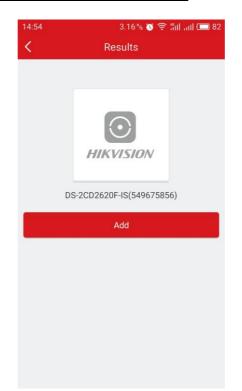
Steps:

- (1) Run Guarding Vision app at your mobile;
- (2) Add the device by scanning device QR code or inputting device serial number manually;



(3) Click 'Add' to continue;

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(4) Input device verification code to finish.

<		Adding Completed	
	Please input the device verification code. Input the device verification code. Find the verification code on the device label. If no ification code on your device, input the default one: ABCDEF (upper-case).	Added.         Add Another Device       Finish         Device Domain Name	
	OK CANCEL	549675856	
	OK ONTOLL	Port Mapping Mode	
		Automatic	>
		Service Port	
		47578	
		HTTP Port	
		33302	

(5) Go back to **Guarding Vision** tab to live view.

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20:02 🖾		0 ½ 🐧 🤶 🕯	âllII 🗔 60
	Hik-Co	nnect	+
DS-2CD24	42FWD-IW(6	50763103)	>
01-03-2017 Tue 1	0:57:21		er 01
	01FD-IW(614		nera 01
Message	O Hik-Connect	Device	o o o More

#### Note:

## How to find device verification code?

a) Try to find device verification code on the label of the device;



a) Try to find the device verification code on the local GUI of DVRs/NVRs.

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		Configuration	
General     General	General Platform Access F	PPOE DDNS NTP Email NA	More Settings
·· Network	Enable	Z	
	Access Type	Hik-Connect	
♠ Alarm	Server Address	dev.hik-connect.com	Custom
<ul> <li>Live View</li> </ul>	Enable Stream Encryption		
	Verification Code	LYSXPR	
Exceptions	Status	Offline	

c) Try to find the verification code in the device web configuration interface for both camera and DVRs/NVRs.

FTP	Email	Platform	Access	HTTPS	QoS	802.1	Ix
	Enable						
Platf	form Acces	s Mode	Hik-Con	nect		~	
Serv	er IP		dev.hik-	connect.cor	n		Custom
Regi	ister Status		Online			~	
Verif	fication Cod	le	•••••			$\lambda_{T} c^4$	

6 to 12 letters or numbers, case sensitive. You are recommended to use a ci

#### Note:

If the user wants to use Guarding Vision domain name service at Guarding Vision App, he needs to continue to add this device in **Device** tab with Guarding Vision Domain adding type.

Steps:

- (1) Go to **Device** tab; click the '+' at the upper-right of the interface;
- (2) Select Manual Adding and select Register Mode as 'Guarding Vision Domain';

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	Device	÷	$\odot$	New Device	8
8 a.	and the second se	Manual Adding Scan QR Code	Alias	New Device 01	
	(;	Win Wi Comfiguer et lan	Register Mode	Hik-Connect Domain	
	•	Online Device	Device Domain		
	27	Generate QR Code	User Name		
			Password		
		<b></b>	Camera No.	<b>1</b> //	
			~		
				Register Type	
			Hik-Connect I	Domain	0
	Start Live View(0)	6	IP/Domain		
Mossago	Hik-Connect	e e e More		Cancel	

(3) Click **Device Domain** input box and select the corresponding device from the list;

$\odot$	New Device	Ø
Alias	Demo 07	0
Allas		
Register Mode	Hik-Connect Domain	>
Device Domain	$\bigcirc$	>
User Name		
Password		
Camera No.	34	

(4) Enter device **user name** and **password** to finish adding process. Click **Start to live view** to watch.

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$\bigcirc$	New Device	P	 	evice Information	
Alias	Demo 07	0	Alias	Demo 07	
Register Mode	Hik-Connect Domain	>	Register Mode		
Device Domain	623100330	>	Device Domair	623100330	
User Name			User Name	admin	
Password		>	Password		
Camera No.	34		Camera No.	34	
			(	Start Live View	

# Method 2: Add devices via <u>www.Guardingvision.com</u> web portal

Steps:

(1) Type <u>www.guardingvision.c</u>om into browser location

(2) Login with your account user name and password.

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Welcome!	
account/email	
password	
Forgot the Password?	
Login	
No account? Register one now.	
Register	

(3) Go to **Device Management** and click **Add** to add a device.

HIKVISION							hik_connect_test 👻   Engli
	Device Managen	nent	Device Serial	No. 🗸	Search by Dev	rice Serial No. 🔍	Add
Device Management	Device Domain	Device	Serial No.	IP/	Port No.	Device Status	Device Operation
My Account				No	device.		

(3) Click Add; Input your device Serial no. then click Search.

Add Device		
Device Serial No.:	657836790	Search
		Cancel

(4) When a connection is made to the device (it must be powered on and connected to the Internet) a popup shows the model and confirms the S/N. If this is the desired device, Click '+' to continue;

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Add Device		
Device Serial No.:	657836790	Search
100		
	+	
DS-7204HUHI-F1-I	N(657836790)	

(5) Iuput your device **verification code**, then click **Add** to finish.

Add Device		
Device Serial No.:	657836790	Search
Verification Code:	•••••	
		Cancel

(6) A pop-up confirms success. And the device now appears on the Device Management page.

HIKVISION						hik_connect_test ▼   Englis
	Device Managen	nent	Device Seri	al No. 🗸 Search by Devic	ce Serial No. Q	G Add
Device Management	Device Domain	Device	Serial No.	IP/Port No.	Device Status	Device Operation
20	497553057	497	553057	68.129.421.132/80	Online	
My Account						
		Ø	Device adde	d successfully.		

(7) Double click on the **IP address** and **Port No.** of a connected device, a new windows opens showing the login screen for the device. Enter the **user name** and **password** to login into the device.

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See a	Device Managem	nent Device Seria	al No. 🗸 Search by Devi	e Serial No. Q	Add
evice Management	Device Domain	Device Serial No.	IP/Port No.	Device Status	Device Operation
2	497553057	497553057	68.129.421.132/80	Online	/ 🗇 🗅
My Account	657836790	657836790	70.422.32.191/81	Online	/ 💼 🖻
C C Interview Texts Texts	ре <sup>16</sup> ерин.инр <sup>1</sup> ,1482054777305	P = Conice Management	e 🌒 Logn	X	
Vee Territes Task Help	pe <sup>-1</sup> egue.asp7_1482304777305	P = Conice Management	e 🏽 kogn	×	
Vev Territes Task Help	ре <sup>т</sup> едик.нер <sup>7</sup> ,1482864777345	P - Conice Management	t Logn	7	a.1.
Vee Territes Task Help	pe Togin.eep7,1482064777305		t. Etajn :	*	A I Password

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# Appendix:

# **1.** How to configure Port Forwarding?

#### Method 1: Configure Port Forwarding via UPnP

#### Steps:

(1) Go to **Configuration -> Advanced Configuration -> Network -> General** to correctly configure network parameters to make sure your device is accessible in LAN. **DNS server address** is necessary in this case.

(2) Click **Apply** to continue.

		Configuration			
泰 General	General Access platform PPPC	DDNS NTP Email NAT	More Settings		
- Network	> Working Mode	_oad Balance			
🎄 Alarm	Select NIC NIC Type	oond0 10M/100M/1000M Self-adaptive			
,≇ RS-232	Enable DHCP				
<ul> <li>Live View</li> </ul>	IPv4 Address 10 .5 .8 .1 IPv4 Subnet 255 .255 .255 .0	IPv6 Address IPv6 Address			
A Exceptions	IPv4 Default G 10 .5 .8 .2	IPv6 Default C	È		
👪 User	MAC Address	c4:2f:90:a4:56:6b			
	MTU(Bytes)	1500			
	Preferred DNS Server	3.8.8.8			
	Alternate DNS Server				
			k		
♠ Live View			Apply Back		

- (3) Go to Menu->Configuration->Network->NAT to check 'Enable UPnP';
- (4) Login router management interface via web and enable UPnP function.

			Confi	iguration			
泰 General	General Platform	n Access	PPPOE DDI	NS NTP Email NA	AT More Se	ettings	
- Network	Enable UPnP						
Network	Mapping Type		Auto				
Alarm	Port Type	Edit	External Port	External IP Address	Port	UPnP Status	
· Live View	HTTP Port	1	80	0.0.0.0	80	Inactive	
Live view	RTSP Port	1	554	0.0.0.0	554	Inactive	
Exceptions	Server Port	1	8000	0.0.0.0	8000	Inactive	
User	HTTPS Port	1	443	0.0.0.0	443	Inactive	
							Refresh
✿ Live View						Apply	Back

#### Note:

(1) The Mapping Type is recommended as Auto.

(2) The (External)Port as well as External IP Address will be refreshed if all the configurations are correct. And UPnP Status will be Active.

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## Method 2: Configure Port Forwarding Manually

Steps:

(1) Go to **Configuration -> Advanced Configuration -> Network -> General** to correctly configure network parameters to make sure your device is accessible in LAN. **DNS server address** is necessary in this case.

Configuration									
ø General	General Access platform PPPO	E DDNS NTP E	mail NAT Mo	re Settings					
↔ Network >		Load Balance							
	Select NIC	bond0							
🞄 Alarm	NIC Type	10M/100M/1000M Self-	adaptive						
,≢ RS-232	Enable DHCP								
- 15	IPv4 Address 10 .5 .8 .11	7	IPv6 Address 1	fe80::c62f:90ff:fea4:5	666b/64				
<ul> <li>▲ Live View</li> </ul>	IPv4 Subnet 255 .255 .255 .0		IPv6 Address 2						
▲ Exceptions	IPv4 Default G 10 .5 .8 .25	j4	IPv6 Default G						
👪 User	MAC Address	c4:2f:90:a4:56:6b							
	MTU(Bytes)	1500							
	Preferred DNS Server	8.8.8.8							
Alternate DNS Server									
					ĸ				
♠ Live View				Apply	Back				

- (2) Click **Apply** to continue.
- (3) Go to Menu->Configuration->Network->More Settings to check the ports you need to open.

	Configuration									
尊 General	General	Platform Access	PPPC	DE DD	NS	NTP	Email	SNMP	NAT	More Settings
- Network	Alarm H			0						1
🎄 Alarm	Server I			8000						
🐢 RS-232	HTTP F	Port		80						
✤ Live View	Multicas RTSP F			554						

- (4) Login router management interface via web;
- (5) Go to Forwarding to open ports for device.

Status						
Basic Settings	Virtua	al Servers				
Quick Setup						
Network						
Wireless	ID	Service Ports	IP Address	Protocol	Status	Modify
Advanced Settings	1	80	192.168.1.23	ALL	Enabled	Modify Delete
DHCP	2	8000	192.168.1.23	ALL	Enabled	Modify Delete
Forwarding	3	554	192,168,1,23	ALL	Enabled	Modify Delete
Virtual Servers						
Port Triggering	4	8200	192.168.1.23	ALL	Enabled	Modify Delete
DMZ	5	81	192.168.1.24	ALL	Enabled	Modify Delete
UPnP	6	8001	192.168.1.24	ALL	Enabled	Modify Delete
Security	7	5555	192,168,1,24	ALL	Enabled	Modify Delete
Static Routing						
IP & MAC Binding	8	8201	192.168.1.24	ALL	Enabled	Modify Delete
Dynamic DNS						
Maintenance	Add Ne	w Enable All	Disable All Delete A			
System Tools	. lua ne					

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#### Note:

The port forwarding interface above is for TP-LINK router (TL-ER340G), which maybe distinct from other router's interface.

# 2. How to modify device domain name?

Method 1: Modify the device domain name when you finish adding.

14:57	1.15 % 🔇 🤶 âul aul 🔲 81
< Addir	ng Completed
(	Added.
Add Another Devi	
549675856	
Port Mapping Mode	
Automatic	>
Service Port	
47578	
HTTP Port	
33302	

Method 2: Modify the device domain name after you finish adding.

Steps:

(1) Go to **Guarding Vision** tab, select the device you want to change domain name;

(2) Go to **Settings**;

(3) Click **Device Information** to modify.

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Hik-Connect +	K Set	ttings	More	C Device Inf	ormation
08-2CD2442FWD-IW(650763103)		FWD-IW(65076310	03) >	Revice Information	650763103 >
	Alarm Notification	Ena	ble >	Port Mapping Mode	Manual >
	Storage Status		,	Service Port	0>
DS-2CV2Q01FD-IW(614277908)	Device Version	V5.4.3 build 1 No new version ava		HTTP Port	0>
01-03-2017 Twe 11:01:13	Image Encryption	0	N 💽	Sa	ve
(C) /	Change Password		>		
Camero 01	The default password code.	is the device verifi	cation		
Mesage Hk Connet Device More	Device Information		>		

Method 3: Modify the device domain name via <u>www.guardingvision.c</u>om web portal. Steps:

- (1) Login <u>www.guardingvision.c</u>om web portal with registered account;
- (2) Go to **Device Management**;
- (3) Select the device you want to change the domain name and click **Edit**.
- (4) Input a new device domain name and click **OK** to save.

	Device Management	Device Serial No.   Search by Device Serial No.   Q			Add
Cevice Management	Edit Device Information		Device	Ope	eration
	* Device Domain:	11234567890f1234567890f1234!			
My Account	Device Serial No.:	400300282	1		
	UPnP Mapping Mode:	Auto Manual	1		
		you can customize the value of the external port. To use	1		
	With the second s	ne device, select Auto mode.	1		
	* Server Port Number:	80	1		
	* HTTP Port Number:	8090	1		
		Cancel Ok	1		
			11	-	Ga

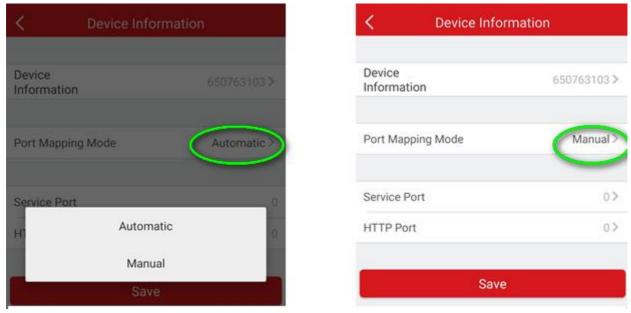
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# 3. What's the difference between the two port mapping modes in

# Guarding Vision app & Guarding Vision web portal?

Users can modify **Port Mapping Mode** in **Device Information** interface in Guarding Vision app or in Device Management interface via Guarding Vision web

portal.



## Guarding Vision app interface

202	Edit Device Information				0	Add
Device Management	* Device Domain:	f1234567890f1234567890f1234	4! ?	Device	0.00	eration
8	Device Serial No.:	400300282				
My Account	UPnP Mapping Mode: For manual port mapping, you	Auto Manual	external port. To use			
	the port No. uploaded by the	device, select Auto mode.				
	* Server Port Number:	80				
	* HTTP Port Number:	8090				
			Cancel			
				-	俞	B

Guarding Vision web portal interface

1. **Auto**: Guarding Vision uses the port reported by the device to connect to it. It is applicable to the situation that device upnp mapping works.

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2. **Manual**: Manually configures port to connect to the device. If UPnP mapping fails, user needs to manually configure the routing. For the devices without latest Guarding Vision firmware, only Manual mode is supported.

## Note:

If it can't redirect your device after clicking IP/Port No. link in \_\_\_\_\_

www.guardingvision.com while the device status is online, it means ports may not be properly configured for your device. In this case, please kindly open ports MANUAL-

LY in router instead of using UPnP to configure port forwarding

Please try **http:// WAN IP: Port No.** to test whether Port Forwarding is successful after port forwarding manually.

<b>HIKVISIO</b> A	/				hik_connect_test 🔻   Englis
۲ ن ن	Device Management Device Serial No. ✓ Search by Device Serial No. Q			Add	
Device Management	Device Domain	Device Serial No.	IP/Port No.	Device Status	Device Operation
20	497553057	497553057	68.129.421.132/80	Online	
My Account					