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### Summary

An internet connected device (camera, DVR, NVR) can be configured to be accessed from outside its local network. Using an IP address allocated by the internet provider, the end user is able to connect to this device. Internet services for non-enterprise solutions commonly provide a dynamic IP address to its users. The lack of a static IP address means the user must reconfigure their device connection settings every time a new IP address is allocated. Managing multiple devices will prove difficult if IP addresses are constantly changing. This issue can be solved by using a Dynamic Domain Name System (DDNS) Service. A fixed address is assigned by the DDNS service provider that can be used to connect to the desired device. The device itself must be configured with the DDNS credentials so that it may automatically update the service with the newly allocated IP address. Through this service, devices under dynamic IP addresses can maintain static addresses. Hikvision products support a number of third party DDNS services in addition to HiDDNS/Hik-Connect.

## Supported Third Party DDNS Services

Third party DDNS service support for Hikvision products consists of both free and subscription based services:

- 1. No-IP (Free, optional subscription available).
- 2. DynDNS (Subscription required).

### Limitations

Third party DDNS services may provide different features based on subscription tiers. For example, No-IP's free subscription requires confirmation of hostnames every 30 days in addition to a limit of 3 hostnames. Depending on the end user's setup and application, not all subscription tiers may be appropriate.

### Discretion

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



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### How to Use Third Party DDNS Services

#### No-IP (<u>www.noip.com</u>)

- 1. No-IP Hostname Setup
  - a. Login or Sign up for an account at www.noip.com
  - b. Under [Dashboard] > [Hostnames], add a new hostname by pressing [Add Hostname].

i≡ 🥵noip	Support v Use Old :	Site				Ą	Q Language	🛔 hiktestlab 🗸
<ul> <li>Dashboard</li> <li>Dynamic DNS</li> </ul>	Ovnamic DNS						Up	grade to Enhanced
Hostnames Groups	Hostnames Groups	Device Confi	guration Assistant				Add I	Hostname
Dynamic Update Client Device Configuration Assistant	Manage Hostnames				Search	×Q	Service Leve	Free
My Services >	Hostname		IP / Target	Туре	Expiration		Free Hostnam	nes expire every
🐣 Account >	hiktestlab.ddns.net	0	76.91.185.12	A	Expires in 19 days	🌣 Modify 🛛 🗙	30 days. Enha never expire.	inced Hostnames
Support Center >	hiktestlab2.ddns.net No Dynamic Update Detected	Θ	97.90.7.98	A	Expires in 23 days	& Modify ×	Enhanced	
Upgrade to Enhanced						Add Hostname	Hostn	ame Count
								2 /3
							Buy Mor	e Hostnames
								Feedback

c. Create a *hostname* and select a *domain*. This will be address of your device after DDNS configuration. No-IP will automatically retrieve your IPv4 address. Create the hostname by pressing **[Add Hostname]**.

ostname	Domain	Record Type	
hiktestlab	ddns.net	A O More Records	
Enable Wildcard 🖲 Upgrade to E	nhanced to enable wildcard hostnames.		
v4 Address 🕄			

d. The hostname and associated IP address will be listed on the account's hostname dashboard.



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- 2. DDNS Setup for Cameras/NVRs Using Web Browser
  - a. Login to the device and proceed to the **[Configuration]** menu.
  - b. DDNS settings can be found in [Network] > [Basic Settings] > [DDNS].

<b>HIKVISION</b>	Live View	Playback	Picture	Configuration
🖵 Local	TCP/IP DDN	S PPPoE Por	NAT	
System	🕑 Enable DD	INS		
Network	DDNS Type	NO-IP		¥
Basic Settings	Server Addres	s dynupda	te.no-ip.com	0
Advanced Settings	Domain	hiktestla	b.ddns.net	
Q. Video/Audio	User Name	hiktestla	b	
🔝 Image	Port	1		
Event	Password	••••••		$\checkmark$
🖺 Storage	Confirm	•••••	•••	
	B	Save		

- c. Check the box for [Enable DDNS], and fill out the provided fields: DDNS Type: NO-IP Server Address: dynupdate.no-ip.com Domain: configured hostname from part 1 (No-IP hostname setup) User Name: Your No-IP username Password/Confirm: Your No-IP password
- d. Press [Save] to save your DDNS configuration.

- 3. DDNS Setup for NVRs/DVRs using GUI
  - a. Use a mouse to login or unlock the device.
  - Access the device's system settings using [Mouse Right-Click] > [Menu] > [System Configuration].

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c.	DDNS settings	can be found in	[Network] >	[DDNS].
<b>.</b>	D D I IO O C C C III BO	can be roand m		

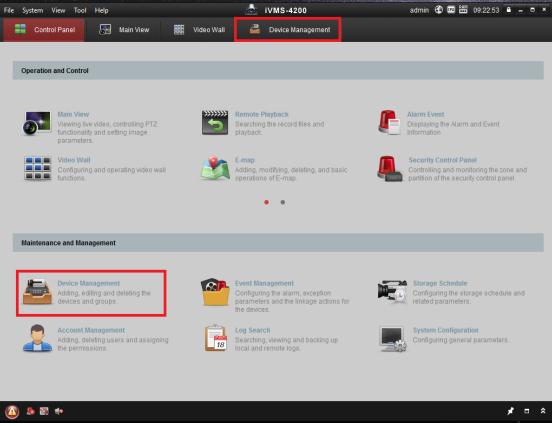
				Configur	ation				
蓉 General	General	PPPOE	DDNS	NTP	Email	SNMP	NAT	More Settings	;
- Net >	Enable	DDNS		•					
	DDNS 1	Гуре		NO-IP					~
\land Alarm	Server /	Adress							
,≇ RS-232	Device	Domain Nar	ne						
k	User Na	ime							
<ul> <li>▲ Live View</li> </ul>	Passwo	rd							
▲ Exceptions	Confirm								
👪 User									
📇 Hot Spare									
♠ Live View								Apply	Back

- d. Check the box for [Enable DDNS], and fill out the provided fields: DDNS Type: NO-IP Server Address: dynupdate.no-ip.com Device Domain Name: configured hostname from part 1 (No-IP hostname setup) User Name: Your No-IP username Password: Your No-IP password
- e. Press [Apply] to save your DDNS configuration.



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- 4. DDNS Setup for Cameras/NVRs/DVRs using iVMS 4200
  - a. Launch iVMS 4200. In [Control Panel], go to [Device Management].



b. In the [Server] tab, select your device and go to [Remote Configuration].

Control Panel 🔚 Main							🛓 ivi	MS-4200							
	View	Video Wall	🚔 Devi	ice Management											
Group Group															
zation	Device for Mana	gement (9)													
Encoding Device/Door Station	+ Add Device	🖸 Modity 🕽	X Delete	Remote Configuratio	n 🖄 QR Code	🕈 Activate 💄	Online User 📀 R	efresh All						Filter	
Add New Device Type	Nickname	IP	Device Se	erial No.		Security	Net Status	HDD Status	Recording Status	s   Signal Status	Hardware Status	Connection	Refresh		
	DS-2CD2342WD	1 10.176.207.4	DS-2CD23	342WD-1201602298BWR	576644861	Weak	0	0	۲	0	0	4	0		
	DS-2CD2742FW	. 10.176.207.2	DS-2CD2	742FWD-IZS20151125BB	WR557096404	Weak	0	0	۲	0	0	2	0		
	DS-2CD4132FW	. 10.176.207.68	DS-2CD41	132FWD-IZ20131110CC	WR440828411	Weak	0	0	•	0	0	0	0		
	DS-2CD4565F-L	10.176.207.87	D5-2CD45	565F-IZH20160120CCW	8571269543	Weak	0	0	•	0	0	0	0		
	DS-2CD4A25FW	10.176.207.6	DS-2CD4	A25FWD-IZH/P2016082	CCWR638982237	Weak	0	0	•	0	0	2	0		
	DS-2CD4A26FW	10.176.207.7	DS-2CD4	A26FWD-IZH20151008C	CWR546566623	Weak	0	0	۰	0	0	2	0		
	DS-2CD4A35FW	10.176.207.9	DS-2CD4	A35FWD-IZH820160407	CCWR589940108	Weak	0	0	•	0	0	2	0		
	DS-2CD6026FH.	10.176.207.75	DS-2CD60	026FHWD-A3201512070	CWR561543468	Weak	0	0	۰	0	0	0	0		
	DS-7732NI-14	10.176.207.71	DS-7732N	4-141620150922CCRR54	2115920WCVU	Weak	0	0	0	0	۲	0	0		
	Online Device (	58)	<del>O</del> Re	effesh Every 60s											
				effesh Every 60s Netinfo 🔦 Reset Pi	assword 🍷 Activ	rate								Filter	
			Modify I		assword 🔮 Activ	rate	Start Time	Added						Filter	
	+ Add to Clie	nt 💠 Add All	Modify 1	Netinfo 🦘 Reset Pi			Start Time 2016-12-13 21:39:32							Filter	
	+ Add to Clie	nt + Add All Device Type	Modify 1	Netinfo 🦘 Reset Pi	Security	Server Port								Filter	
	+ Add to Clie	nt + Add All Device Type DS-2CD6026FI	Modify I HWD-A3	Netinfo * Reset Pr Firmware Version V5.3.0build 150326	Security Active	Server Port 8000	2016-12-13 21:39:32	Yes Yes						Tiber	
to DevenDoor Status DABOOS	<ul> <li>Add to Clie</li> <li>IP</li> <li>10.176.207.75</li> <li>10.176.207.87</li> <li>10.176.207.88</li> <li>10.176.207.9</li> </ul>	nt + Add All Device Type DS-2CD6026FF DS-2CD4332FF DS-2CD4332FF DS-2CD4332FF	Modify 1 HWD-A3 IZH WD-IZHS WD-IZHS	Netinfo Preset Pr Firmware Version V5.3.0build 150326 V5.3.4build 150812	Security Active Active	Server Port 8000 8000 8000 8000 8000	2016-12-13 21:39:32 2016-12-09 12:17:01 2016-12-10 03:25:13 2016-12-10 03:23:24	Ves Ves No Ves						Titler	
ng DeviceDuro Status DVRDv9 2009 microsoft age webby	<ul> <li>Add to Clie</li> <li>IP</li> <li>10.176.207.75</li> <li>10.176.207.87</li> <li>10.176.207.88</li> <li>10.176.207.9</li> <li>10.176.207.9</li> </ul>	nt + Add All Device Type DS-2CD6026FF DS-2CD4565F- DS-2CD45832FF	Modify 1 HWD-A3 IZH WD-IZHS WD-IZHS	Netinfo • Reset Pr Firmware Version V5.3.0build 150326 V5.3.4build 150812 V5.4.0build 160419	Security Active Active Active	Server Port 8000 8000 8000	2016-12-13 21:39:32 2016-12-09 12:17:01 2016-12-10 03:25:13	Ves Ves No Ves						Filer	

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### C. DDNS configuration settings can be found under [Network] > [DDNS].

	Re	Remote Configuration
🖃 🚱 System 🔶	Configuring the DDNS	S Parameters
Device Information	Enable DDNS	
🎡 General	Protocol Type:	No-IP
🎡 Time		: dynupdate.no-ip.com
System Maintenance	User Name:	
@ RS232		· ······
@ RS485	Confirm Password:	
🎡 Log	Device Domain Name:	
🎡 User		
Resource Usage	Status:	Disabled
🎡 Camera		Save
🎡 Login Security		
- 🐼 Network		
🎡 General		
🏶 DDNS		
SNMP		
🛞 NAT		
HTTPS		
Advanced Settings		
Wik Cloud P2P		
💿 🌚 Storage		
🕑 🍪 Event	J	
🗄 🚳 Image		
🖭 🚳 Counting		
🛨 🚷 Heat Map 🔹		

d. Check the box for [Enable DDNS], and fill out the provided fields: DDNS Type: NO-IP Server Address: dynupdate.no-ip.com User Name: Your No-IP username Password/Confirm: Your No-IP password Device Domain Name: configured hostname from part 1 (No-IP hostname setup)

e. Press [Save] to save your DDNS configuration.

**Note:** Update clients provided by third party DDNS services are not required to be installed. The device will update hostname information when a new IP address is allocated.

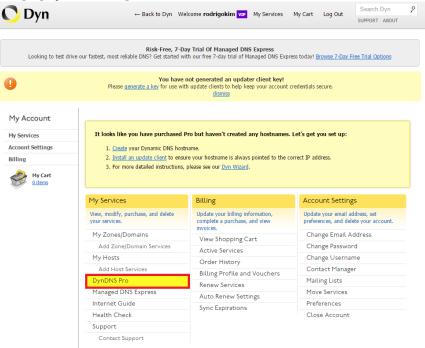
DynDNS (www.dyn.com



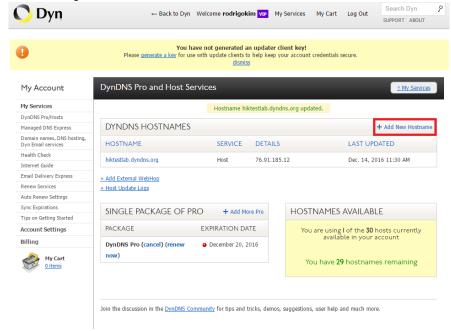
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#### 1. DynDNS Hostname Setup

- a. Sign up or Login to your DynDNS account.
- b. Go to [My Services]> [DynDNS Pro] to create a new hostname.



c. Press [+ New Hostname] to create a new hostname.





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d. Choose a *hostname* and *domain*. *Service Type* should be set to *Host with IP address*. Your IP address will automatically be retrieved by this form.

Hostname:	hiktestlab	· dyndns.org ▼
Wildcard:		s-yourdomain.com" alias ame settings for www.host.dyndns-
Service Type:	<ul> <li>Host with IP address</li> <li>WebHop Redirect (UF</li> <li>Offline Hostname</li> </ul>	RL forwarding service)
IP Address:	70.211.131.127 Your current location's IP IPv6 Address (optional):	address is 70.211.131.127 Edit TTL
Mail Routing:	I have mail server wit add MX hostname	h another name and would like to
		Activate

- e. Press [Activate] to create the hostname.
- f. Your new hostname will be listed on the DynDNS Pro dashboard.

🕽 Dyn	← Back to E	Dyn Welcome <b>rodrigok</b>	im 🗤 My S	ervices My Cart	Log Out	Search Dyn SUPPORT ABOUT
D		ou have not generated a or use with update clients to dismis	o help keep you		s secure.	
My Account	DynDNS Pro and Host	Services			-	<u>↑ My Service</u>
My Services		Hostname hil	ktestlab.dyndns	s.org.updated.		
DynDNS Pro/Hosts			, , , , , , , , , , , , , , , , , , , ,	and appeared.		
Managed DNS Express						
Domain names, DNS hosting, Dyn Email services	If you've created a	hostname for a Linksys Re		d our free app for an Iter Setup App	n automatic ro	outer setup.
Health Check		Download the L	miksys kou	iter setup App		
Internet Guide	Otherw	vise you will need to compl	ete a manual ro	uter configuration to	use DynDNS!	
Email Delivery Express						
Renew Services						
Auto Renew Settings	DYNDNS HOSTNAM	ES				+ Add New Hostnam
Sync Expirations	HOSTNAME	SERVICE	DETAILS		LAST UP	DATED
Tips on Getting Started	HOSTNAME	SERVICE	DETAILS		LAST UP	DATED
Account Settings	hiktestlab.dyndns.org	Host	70.211.131.	127	Dec. 14, 2	016 11:19 AM
Billing						
My Cart <u>0 items</u>	» Add External WebHop » Host Update Logs					
	SINGLE PACKAGE OF	F PRO + Add Mo	re Pro	HOSTNAMES	S AVAILAB	LE
Automatically Set Up Your Linksys Router	PACKAGE	EXPIRATION DA	TE		ig I of the <b>30</b> able in your	hosts currently
	DynDNS Pro (cancel) (renew now)	December 20, 2	016		ŕ	nes remaining

- 2. DDNS Setup for Cameras/NVRs Using Web Browser
  - a. Login to the device and proceed to the [Configuration] menu.

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•					

b. DDNS settings can be found in [Network] > [Basic Settings] > [DDNS].

HIKVISION	Live View	Playback	Picture	Configuration
🖵 Local	TCP/IP DD	NS PPPoE Po	rt NAT	
System	🕑 Enable D	DNS		
Network	DDNS Type	DynDf	<b>VS</b>	T
Basic Settings	Server Addre	ess membe	ers.dyndns.org	
Advanced Settings	Domain	hiktest	lab.dyndns.org	
<b>₽</b> Video/Audio	User Name	rodrigo	kim	
Image	Port	1		
Event	Password			
Storage	Confirm	•••••		
	E	Save		

- c. Check the box for [Enable DDNS], and fill out the provided fields: DDNS Type: DynDNS Server Address: members.dyndns.org Device Domain Name: configured hostname from part 1 (DynDNS hostname setup) User Name: Your DynDNS username Password: YourDynDNS password
- d. Press [Save] to save your DDNS configuration.

- 3. DDNS Setup for NVRs/DVRs using GUI
  - a. Use a mouse to login or unlock the device.
  - b. Access the device's system settings using [Mouse Right-Click] > [Menu] > [System Configuration].

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#### c. DDNS settings can be found in [Network] > [DDNS].

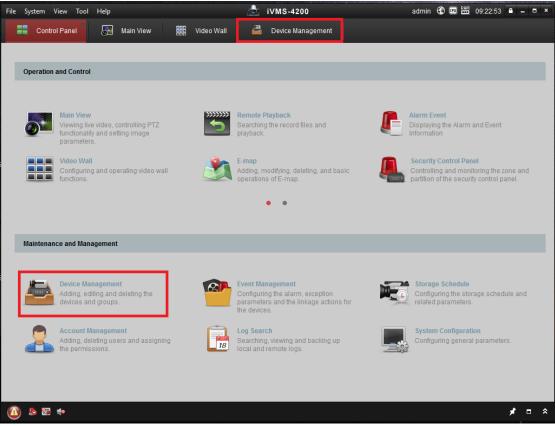
			Configur	ation					
General	PPPOE	DDNS	NTP	Email	SNMP	NAT	More Setting	s	
Enable [	DNS		<b>~</b>						
DDNS T	уре		DynDNS						
Server A	ddress								
Device D	)omain Nai	ne							
User Na	me								
Passwor									
Confirm	k								
							Apply	Back	
	Enable D DDNS T Server A Device D User Na Passwor	Enable DDNS DDNS Type Server Address Device Domain Nar User Name Password	General     PPPOE     DDNS       Enable DDNS     DDNS Type       DDNS Type     Server Address       Device Domain Name       User Name       Password	General     PPPOE     DDNS     NTP       Enable DDNS     Image: Comparison of the second	Enable DDNS     Image: Constraint of the second secon	General     PPPOE     DDNS     NTP     Email     SNMP       Enable DDNS     Image: Comparison of the second seco	General     PPPOE     DDNS     NTP     Email     SNMP     NAT       Enable DDNS     Image: Comparing the second secon	General       PPPOE       DDNS       NTP       Email       SNMP       NAT       More Setting         Enable DDNS       Image: Comparison of the setting       Image: Comparison of the setting       Image: Comparison of the setting         Device Domain Name       Image: Comparison of the setting       Image: Comparison of the setting         User Name       Image: Comparison of the setting       Image: Comparison of the setting	General       PPPOE       DDNS       NTP       Email       SNMP       NAT       More Settings         Enable DDNS       Image: Construction of the setting of the

- d. Check the box for [Enable DDNS], and fill out the provided fields: DDNS Type: DynDNS Server Address: members.dyndns.org Device Domain Name: configured hostname from part 1 (DynDNS hostname setup) User Name: Your DynDNS username Password: Your DynDNS password
- e. Press [Apply] to save your DDNS configuration.



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- 4. DDNS Setup for Cameras/NVRs/DVRs using iVMS 4200
  - a. Launch iVMS 4200. In [Control Panel], go to [Device Management].



b. In the [Server] tab, select your device and go to [Remote Configuration].

Control Panel 🛛 🚮 Mair	View 🗱		🚔 Device Management											
er 🗐 Group														
nization	Device for Mana	sgement (9)												
Encoding Device/Door Station	+ Add Device	e 🖸 Modity 🗙	Delete 🗢 Remote Configurati	on 🎉 QR Code	🖗 Activate 💄	Online User 🛛 📀 Re	fresh All						Filter	
Add New Device Type	Nickname	IP	Device Serial No.		Security	Net Status	HDD Status	Recording Stat	us   Signal Status	Hardware Status	Connection	Refresh		
	DS-2CD2342WD	-1 10.176.207.4	D5-2CD2342WD-I20160229BBW	R576644861	Weak	0	0	۲	0	۲	4	0		
	DS-2CD2742FW	10.176.207.2	D5-2CD2742FWD-IZS20151125B	BWR557096404	Weak	0	0	•	0	0	2	0		
	DS-2CD4132FW	10.176.207.68	D5-2CD4132FWD-IZ20131110CC	WR440828411	Weak	0	0	•	0	0	0	0		
	DS-2CD4565F-L	10.176.207.87	DS-2CD4565F-IZH20160120CCW	/R571269543	Weak	0	0	•	0	0	0	0		
	DS-2CD4A25FW	10.176.207.6	DS-2CD4A25FWD-IZH/P2016083	4CCWR638982237	Weak	0	0	۲	0	0	2	0		
	DS-2CD4A26FW	10.176.207.7	DS-2CD4A26FWD-IZH20151008	CCWR546566623	Weak	0	0	۲	0	0	2	0		
	DS-2CD4A35FW	10.176.207.9	DS-2CD4A35FWD-IZH820160407	CCWR589940108	Weak	0	0	۲	0	0	2	0		
	DS-2CD6026FH	. 10.176.207.75	DS-2CD6026FHWD-A320151207	CCWR561543468	Weak	0	0	۲	0	٥	0	0		
	DS-7732NI-14	10.176.207.71	DS-7732NI-141620150922CCRR5	42115920WCVU	Weak	0	0	0	•	۲	0	0		
	Online Device (	58)	O Retrash Every 60s											
			<ul> <li>Refresh Every 60s</li> <li>Modify Nations I Reset F</li> </ul>	*assword 🖤 Activ	ate								Piller	
				¹assword ♥ Activ		Start Time	Added						The	
	+ Add to Clie	nt 🛨 Add All	Modity Netinto 😙 Reset F			Start Time 2016-12-13 21:39:32	Added						Pitter	
	+ Add to Clie	nt + Add All Device Type	Modify NetInfo Seset F Firmware Version VD-A3 V5.3.0build 150326	Security	Server Port								Pitter	
	+ Add to Clie IP 10.176.207.75	nt + Add All Device Type DS-2CD6026FHV	Modily Netinto Reset F Firmware Version VD-A3 V53.0build 150326 H V5.3.4build 150812	Security Active	Server Port 8000	2016-12-13 21:39:32	Yes						rae	
when Databalance Statics DAR PUS	Add to Clie     IP     10.176.207.75     10.176.207.87     10.176.207.88     10.176.207.9	nt + Add All Device Type DS-2CD6026FHV DS-2CD4563F-12	Modify Netinfo Reset F Firmware Version VD-A3 V5.3.0build 150326 H V5.3.4build 150812 D-I2HS V5.4.0build 160419	Security Active Active	Server Port 8000 8000	2016-12-13 21:39:32 2016-12-09 12:17:01	Yes Yes						File	
oding Dekot Dor Station: DVRD/19 and 2020 and 14-2020 PC/NW	Add to Clie     P     10.176.207.75     10.176.207.87     10.176.207.88     10.176.207.9     10.176.207.9	nt + Add All Device Type DS-2CD6026FHV DS-2CD4565F-IZ DS-2CD4332FWD	Modify Netinfo Reset F Firmware Version VD-A3 V5.3.0build 150326 H V5.3.4build 150812 D-I2HS V5.4.0build 160419	Security Active Active Active	Server Port 8000 8000 8000	2016-12-13 21:39:32 2016-12-09 12:17:01 2016-12-10 03:25:13	Ves Ves No						Piter	

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### c. DDNS configuration settings can be found under [Network] > [DDNS].

	Remote Configuration
🖃 🚳 System	Configuring the DDNS Parameters
Device Information	✓ Enable DDNS
🎡 General	Protocol Type: DynDNS
🎡 Time	Server Address: members.dyndns.org
🎡 System Maintenance	User Name: rodrigokim
🎡 RS232	Password:
🎡 RS485	Confirm Password:
🎡 Log	Device Domain Name: hiktestlab.dyndns.org
🎡 User	Status: No Status
Resource Usage	Save
Camera	
Login Security	
- Konstanting Network	
🎡 General	
DDNS	
SNMP NAT	
W HTTPS	
Advanced Settings	
W Hik Cloud P2P	
Cloud P2P     Storage	
• 🚱 Event	U
🗈 🚳 Image	
Counting	
🗈 🚳 Heat Map	

- d. Check the box for [Enable DDNS], and fill out the provided fields: DDNS Type: DynDNS Server Address: members.dyndns.org User Name: Your DynDNS username Password/Confirm: Your DynDNS password Device Domain Name: configured hostname from part 1 (DynDNS hostname setup)
- e. Press [Save] to save your DDNS configuration.

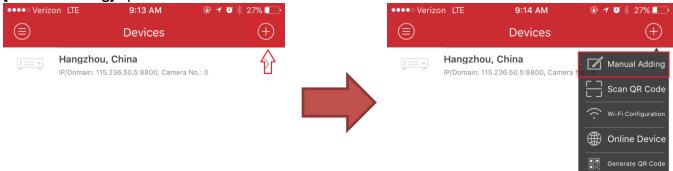
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Adding DDNS configured devices to iVMS 4500

- 1. Launch iVMS 4500 from your mobile device.
- 2. Open the menu by pressing the top left icon. Select **[Devices]** from the list.

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3. The device list will be displayed on this screen. To add a DDNS configured device, press [+] and use the [Manual Adding] option.



4. Fill out the following information regarding your DDNS configured device:
Alias: Set a nickname for your device
Register Mode: IP/Domain
Address: Hostname created from your DDNS account.
Port: Default value is 8000. Change this value if your hostname requires a different port number.
User Name: Username for device
Password: Password for device

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		$\left(\leftarrow\right)$	Device Information			
		Alias	DDNS Test			
		De sister Maria				
		Register Mode	IP/Domain			
		Address	hiktestlab.ddns.net			
		Port	8000			
		User Name	admin			
		Password				
		Passworu				
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			Start Live View	$(\cdots)$		
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5. Press [Start Live View] to view your device.



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