# **Quick Guide of DDNS Settings**

### Solution:

With the development of surveillance systems, more and more users want to use ADSL to realize video surveillance through network. But ADSL gives dynamic IP addresses and here is the one most widely used solution for internet access: DDNS, considering the features of ADSL and the practical situation.



### Note:

Make sure your device is able to be previewed and remote configured in the LAN. IP address, subnet mask and gate way of the device is already filled in correctly.

Make sure the firewall and security software open all the ports needed for the internet access.

### Steps:

### 1. Port Mapping.

The following setting is about TP-LINK router (TL-ER340G), which is maybe distinct from other router's setting.

1) Firstly, select the router's WAN connection type.

	WAN	
Status		
Basic Settings	WAN Connection Type:	PPPoE 🔽
Quick Setup		Dynamic IP
Network	User Name:	PPPoE
LAN	Password:	802.1X + Dynamic IP 802.1X + Static IP
WAN		BigPond Cable
MAC Clone	WAN Connection Mode:	PPTP/Russia PPTP
		Dual Access/Russia PPPoE

2) Set the "network parameter" of the router as the below figure. The setting includes subnet mask and gateway.



Status		
Basic Settings	_AN	
Quick Setup		
Network		
LAN	MAC Address:	00-25-86-7A-A9-A0
WAN	IP Address:	192.168.1.1
MAC Clone	Subnet Mask:	255.255.255.0
Wireless		

3) Set the port map in the virtual servers of forwarding. By default, all the IP cameras use port 80, 8000, 554 and 8200. For DVR, 80, 8000 is essential (for some new module DVR 554 also needed.)

The following figure gives the illustration. One camera/DVR ports are 80, 8000, (554, 8200) and its IP address is 192.168.1.23. The other camera/DVR ports are 81, 8001, (1024, 8201) and IP is 192.168.1.24. Afterwards, enable all or TCP protocols. Enable the port map after pressing the 'Save'.

Status						
Basic Settings	Virtu	al Servers				
Quick Setup						
Network	1.0.0			AMA:	100	11.000
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	2	554	102 160 1 22	AL 1	Epobled	Madify Dalata
Virtual Servers	3	554	192.100.1.23	ALL	Enabled	Modily Delete
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		1001	100 100 1 01	AL 1	Fachlad	Madif: Dalata
Static Routing		1024	192.108.1.24	ALL	Enabled	Modily Delete
IP & MAC Binding	8	8201	192.168.1.24	ALL	Enabled	Modify Delete
Dynamic DNS						
Maintenance	Add Ne	Enable All	Disable All Delete			
System Tools	, nud ne		Deleter			

As the settings mentioned above, map the router's port 80 and 8000 to the network camera /DVR at 192.168.1.23; and port 81 and 8001 to the network camera/DVR at 192.168.1.24. In this way, user can access the 192.168.1.23 through accessing the router's port 80 and 8000.

#### Note:

The port of the network camera/DVR cannot conflict with other ports. For example, some router's web management port is 80. User can amend the router's or the device's port to solve this problem. Also sometime this problem is caused by the telecom operator. So the http port 80 is probably need to be changed.

For port 8200, it will be modified automatically when you change the port 8000. You only need to add the port mapping in the router.

### 2. HiDDNS Setting.

For DVR, please go to DVR local menu > Configuration > DDNS > Enable the DDNS > Select HiDDNS > Choose Region and Country> Input the Domain name > Apply.



<b>₽</b>				Configur	ation						
尊 General	General	PPPOE	DDNS	NTP	Email	FTP	SNMP	NAT	More S	Settings	
🎄 Network 🔷 🔸	Enable I	DDNS		<b>V</b>							
\land Alarm	DDNS T	ype		HIDDNS							
,≇ RS-232	Region/	ddress		Default	online	om					
	Device [	Domain Na	me	mydvr	onine.	20111					
▲ Exceptions	User Na	me									
🔹 User	Passwo	rd									
Hot Spare	Confirm										
♠ Live View								Ap	oly	Back	

After Apply, if it shows nothing, means successful register. If it shows "Communication to the server failed", please double check the network and DNS settings.

Live View	Playback	Log	Configuration	🚨 admin   🛶 Logout
<ul> <li>Local Configuration         <ul> <li>Local Configuration</li> <li>Local Configuration</li> </ul> </li> <li>Basic Configuration         <ul> <li>Advanced Configuration</li> <li>System</li> <li>Network</li> <li>Video/Audio</li> <li>Image</li> <li>Security</li> <li>Events</li> <li>Strane</li> </ul> </li> </ul>		PPPoE SNMP 80 HiDDNS Asia China cndev.hik-online. mycamera 0	2.1X QoS FTP UPnP <sup>TM</sup> Email NA	T
	Confirm			

For IPC, please go to IPC> Configuration > Advanced Configuration > Network > DDNS.

#### Note:

- Before you configure HiDDNS domain for your devices, you need to ensure the DNS server has also been correctly configured in the network interface, such as 8.8.8.8.
   Please go to IPC> Configuration > Advanced Configuration > Network > General.
- 2. In order to provide you better DDNS service, we highly recommend you to choose the region and country according to the device's real location.
- 3. For some reasons, the device still can't be registered to the server after you have rightly configured the region and country for device. Please set it as default, then manually configure server address to assigned DDNS server.

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# **HIKVISION**

¥					Configu	ration						
尊	General	General	PPPOE	DDNS	NTP	Email	FTP	SNMP	NAT	More \$	Settings	
	Network >	<b>NIC Тур</b>	e									-
٨	Alarm	Enable [	ОНСР									
<b>,</b> #	RS-232	IPv4 Add	dress									
٥	Live View	IPv4 Sul	onet Mask	(0) (								
•	Exceptions	IPv6 Add	dress 1	ay								
•*	Leor	IPv6 Add	dress 2									
-		IPv6 Def	fault Gatew	ay								
424	Hot Spare	MAC Ad	dress									
		MTU(By	tes)									
		Preferre	d DNS Ser	ver	8.8.8.8							
		Alternate	e DNS Serv	/er	8.8.4.4							
<b>A</b>	Live View								Арр	bly	Back	

Note 1: DNS Server

Region 1	North America	DDNS server address	usdev.hik-online.com
Region 2	European	DDNS server address	eudev.hik-online.com
Region 3	Asia	DDNS server address	asdev.hik-online.com
Region4	South America	DDNS server address	sadev.hik-online.com
Region 5	China	DDNS server address	cndev.hik-online.com

Note 3: DDNS server address

# Hikvision Domain Name System (optional):

If you have several devices which register via HiDDNS, you can use our Hikvision Domain Name System to check the entire status and device log.

1. Login

Open Internet Explorer in the address bar, type IP address of DDNS Management Server Http://www.hik-online.com

If you don't have an account, please click "register new user" to create a new user.



likvision Domain	Name System	Language: English 💽 🥑 Help
	HIKVISION	Welcome
		User Name/Email
HIRVEY X SY		Input the password.
		Forget password?
		Login
HIRVISION		
	Horsen 0	Did you register? Please register now!
	NO	Register
* User Name:	Only Chinese, numeric, English letter, underline and [6~64].	l non-white space are allowed. Length Range
* Password:		
	The password must contain at least two of the re- lowercase letter, special characters , and numeric	equired character types: uppercase letter, c. Length Range [6~32].
* Confirm Password:		
	The password must contain at least two of the re- lowercase letter, special characters , and numeric	equired character types: uppercase letter, c. Length Range [6~32].
* Code:	THE	
Nickname:		
	Length Range:[2-64]	
* Country:	•	
	The country cannot be changed once saved, plea	ase select it prudently.

When you login at the first time, it will pop up a tip to remind you to select the country. The country can not be changed once saved, so please select it prudently. For better device management, it's highly recommended to set it same as the one you set for your device.

likvision D	omain Nam	e System			ge: English 💽 🥐 Help
	Tip				×
Ċ	* Please select the country:			•	
	, i i i i i i i i i i i i i i i i i i i	Input the couny	name to filter the cou	intries.	
mevise		Europe	Asia	America	Africa Oceania
		Andorra	Austria	Albania	Ireland
		Estonia	Iceland	Belarus	Bulgaria
		Poland	Bosnia	Belgium	Germany
		Denmark	Russia	France	Finland
		Holland	Czech	Croatia	Latvia
		Lithuania	Liechtenstein	Romania	Macedonia
		Malta	Luxembourg	Monaco	Moldova
		Norway	Serbia	Portugal	Sweden
		Switzerland	Slovak	Slovenia	San marino
		Ukraine	Spain	Greece	Hungary
		Italy	United Kingdom	Europe Other	

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### 2. Device Management

After login, Click "Device Management", there is no device at first time. Click "Add" button to add device.

(2);	Dynamic Domain Name Server											
Device	Device Status Device Management											
Device	Device Management Add Modify Delete Input the search condition. Q X											
	Index	Device Domain	Device Serial No.	Region	Device Local Port	Platform Effective P	ort					

Enter in Device name and serial number. By default, http port is 80. If http port of device was changed from 80, please enter new port in Http Port area.

Add Device		×
		1
* Device Serial No. :	DS-7204HFHI-ST0420140614AAWR	<b>v</b>
* Device Domain:	mydvr	⊿
	Only numeric, lower case letters and '_' are supp string cannot be ended with '_' or space, The len 64]	orted, and the gth range [6-
* HTTP Port:	0	
	Normally please do not change the default port unless NAT function is enabled on the router and http port is of different value from the internal. In please input the value of external port here.	value '0', d the external n that case
	ОК	Cancel

### Note:

Please input here the registered domain name in the device domain area. And you must fill in the correct Device Serial No.

### 3. Device status.

Click "Device Status" to show all added devices information like Serial number, Dynamic IP, HTTP port, DDNS IP address. And you can just click the Device Link URL to start previewing. If the device status is offline, you can click diagnose to check the reason.

Device 9	Status	Device Manag	ement		
Device 9	Status				
Index	Device Don	nain	Device Link U	RL	Devic
1	qbcde		Device offline	+ Diagnose	42142

## **Remote Access:**

1) Web browser.

Put the whole domain name into the browser, like: http://www.hik-online.com/mydvr or mydvr.hik-online.com.

2) PC Client software.

iVMS-4200 > Import Camera > Add Device > input all the info (address column should be the full domain name.)

	Add			×			
Adding Mode:							
○ IP/Domain ○ IP S	Segment	<ul> <li>IP Serve</li> </ul>	r 🧿	HIDDNS			
Add Offline Device							
Nickname:	76NI-ST						
Server Address:	www.hik-on	www.hik-online.com					
Device Domain Name:	mydvr			]			
User Name:							
Password:							
Export to Group							
Set the device name as the group name and add all the channels connected to the device to the group.							
			Add	Cancel			

3) Mobile client.

iVMS-4500 iPhone, ipad and Android V1.6 or above.



©	Devices	R
Alias	New Device 02	0
Register Mode	HIDDNS	>
Server Address	www.hik-online.com	0
Device Domain	mydvr	0
User Name	admin	0
Password	*****	0
Camera No.	1	

#### Note:

Please input here the registered domain name in the device domain area on ivms-4200/4500.

## **IP Server Setting Guide:**

Our new generation devices (DVR/NVR/IPC...) support both HiDDNS and IP Server as DDNS type. We highly recommend you to choose the HiDDNS since it will provide you a more stable, faster and securer DDNS service. While for the old model device, like DS-7216HFI-ST, you can only choose the IP Server mode to get the HIKVISION DDNS service.

For IP Server DVR, please go to DVR local menu > Configuration > DDNS > Enable the DDNS > Select IP Server > Input the Server Address > Apply.

\$	Configuration											
ø	General	General	PPPOE	DDNS	NTP	Email	FTP	SNMP	NAT	More S	ettings	
	Network >	Enable DDNS										
٨	Alarm	DDNS Type			IPServer							
<b>,</b> ≢	RS-232	Server Address			173.200.91.74							
٢	Live View	User Name										
A	Exceptions	Password										
**	User	Confirm										
8	Hot Spare											
♠	Live View								App	oly	Back	



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### Note:

Only two IP Server addresses are available: 115.236.50.26 & 173.200.91.74. Do not use the IP as 107.23.21.97 which is got from ping <u>www.hik-online.com</u> command. This IP is not effective! If you use 115.236.50.26, the device will be registered to China DDNS server and 173.200.91.74 will redirect it to the US DDNS server. Meanwhile you need to register a corresponding region account (China/US) to add and manage your IP Server devices.

After you have accomplished the above settings on the device, then you might configure device domain by adding the IP Server device into your own account. The domain name you set here is the one you registered to the DDNS server for your device.

Add Device		×			
		1			
* Device Serial No. :	DS-7204HFI-ST0420140614AAWR	*			
* Device Domain:	ddnstest	*			
	Only numeric, lower case letters and '_' are supp string cannot be ended with '_' or space, The len 64]	oorted, and the gth range [6-			
* HTTP Port:	0				
	Normally please do not change the default port value '0' unless NAT function is enabled on the router and the extern http port is of different value from the internal. In that case please input the value of external port here.				
	ОК	Cancel			