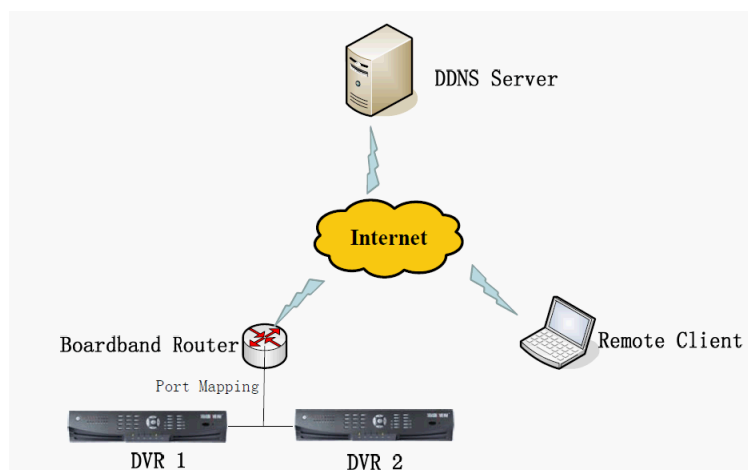


Quick Guide of hkDDNS Settings (with UPnP)

Solution 1:

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.

DVR local menu > Configuration > Network > General.

Configuration							
General	General	PPPOE	DDNS	NTP	Email	SNMP	More Settings
Network	NIC Type	10M/100M/1000M Self-adaptive					
Alarm	Enable DHCP	☐					
RS-232	IPv4 Address	192 . 168 . 1 . 99					
Live View	IPv4 Subnet Mask	255 . 255 . 255 . 0					
Exceptions	IPv4 Default Gateway	192 . 168 . 1 . 2					
User	IPv6 Address 1						
	IPv6 Address 2						
	IPv6 Default Gateway						
	MAC Address	00:40:48:ab:bc:19					
	MTU(Bytes)	1500					
	Preferred DNS Server	10.1.7.88					
	Alternate DNS Server						
Live View	Apply Back						

For DNS Server IP, you can refer to the PC connected in the same LAN.

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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.

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

- 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, (555, 8201) and IP is 192.168.1.24. Afterwards, enable all or TCP protocols. Enable the port map after pressing the 'Save'.

ID	Service Ports	IP Address	Protocol	Status	Modify
1	80	192.168.1.23	ALL	Enabled	Modify Delete
2	8000	192.168.1.23	ALL	Enabled	Modify Delete
3	554	192.168.1.23	ALL	Enabled	Modify Delete
4	8200	192.168.1.23	ALL	Enabled	Modify Delete
5	81	192.168.1.24	ALL	Enabled	Modify Delete
6	8001	192.168.1.24	ALL	Enabled	Modify Delete
7	555	192.168.1.24	ALL	Enabled	Modify Delete
8	8201	192.168.1.24	ALL	Enabled	Modify Delete

Buttons: Add New... Enable All Disable All Delete All

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.

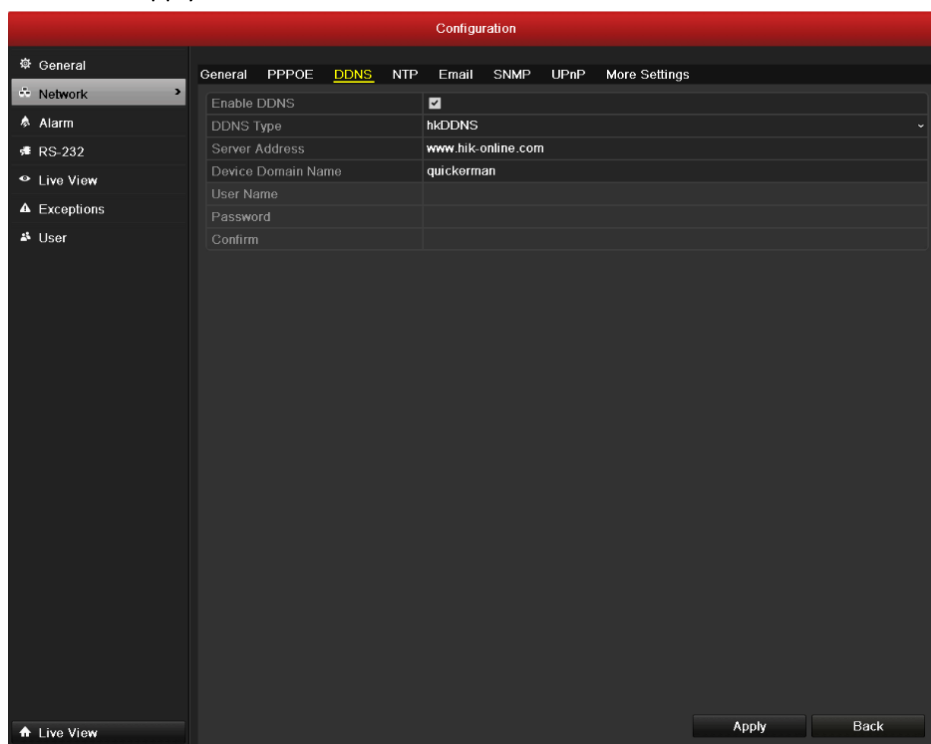
Note:

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 needed 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. hkDDNS setting.

DVR local menu > Configuration > DDNS > Enable the DDNS > Select hkDDNS > Input the Domain name > Apply.



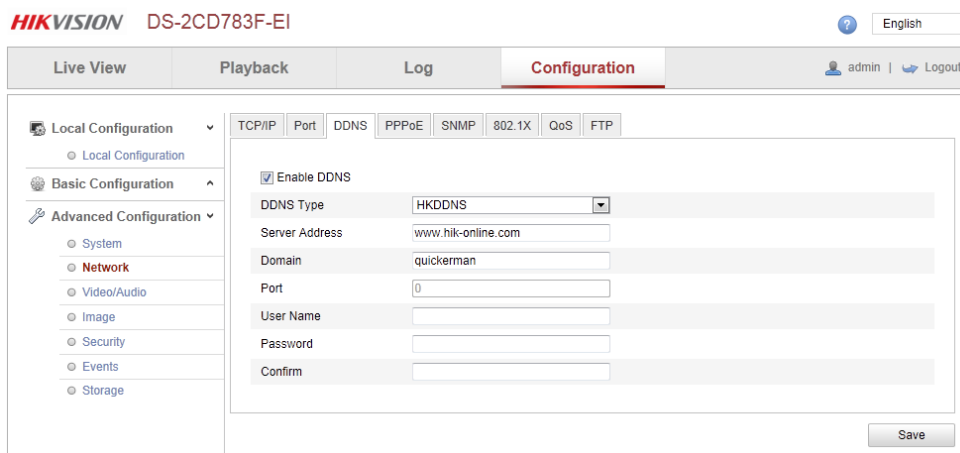
The screenshot shows the 'Configuration' window with the 'DDNS' tab selected. The 'Enable DDNS' checkbox is checked. The 'DDNS Type' is set to 'hkDDNS'. The 'Server Address' is 'www.hik-online.com' and the 'Device Domain Name' is 'quickerman'. There are fields for 'User Name', 'Password', and 'Confirm' which are currently empty. At the bottom right, there are 'Apply' and 'Back' buttons.

General	PPPOE	DDNS	NTP	Email	SNMP	UPnP	More Settings
Enable DDNS ☒							
DDNS Type: hkDDNS							
Server Address: www.hik-online.com							
Device Domain Name: quickerman							
User Name:							
Password:							
Confirm:							

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.

IPC > Configuration > Advanced Configuration > Network > DDNS.



Solution 2 (With UPnP):

If your device and router support the UPnP function, with this UPnP function, you don't need to do the port forwarding configuration anymore, all the setting will be don't by devices itself. And after some simple settings in the device, you can easily have the remote access through internet.

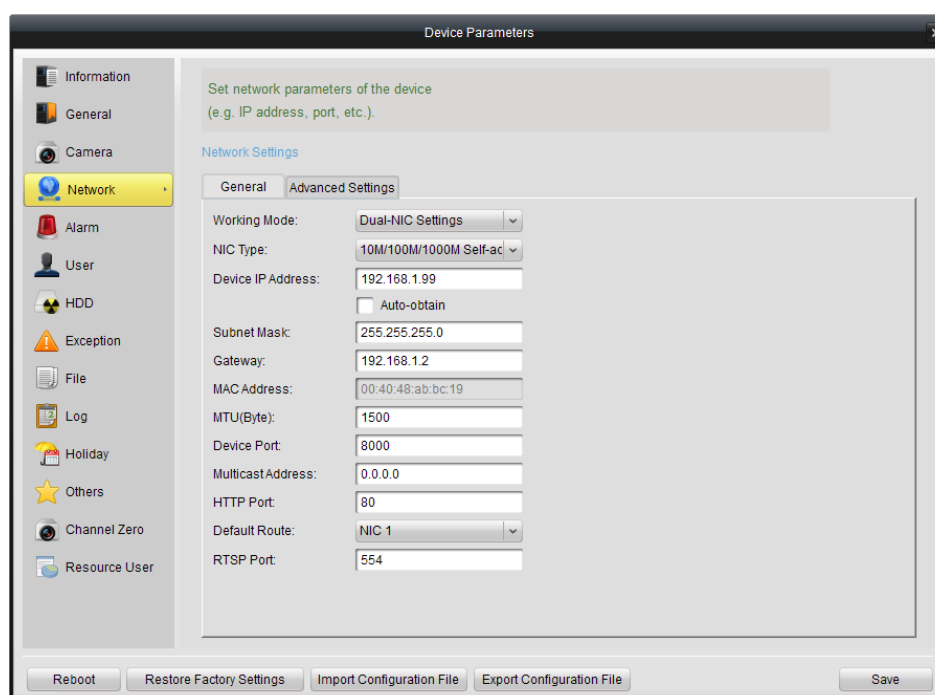
Note:

Please enable the UPnP function in your router in advance.

Steps:

1. Basic Network Settings:

iVMS-4200 > Import Camera > Add Device > Remote Configuration > Network > configure all the basic network settings, (IP address, sub mask, gate way and Different port) > Save.



Note:

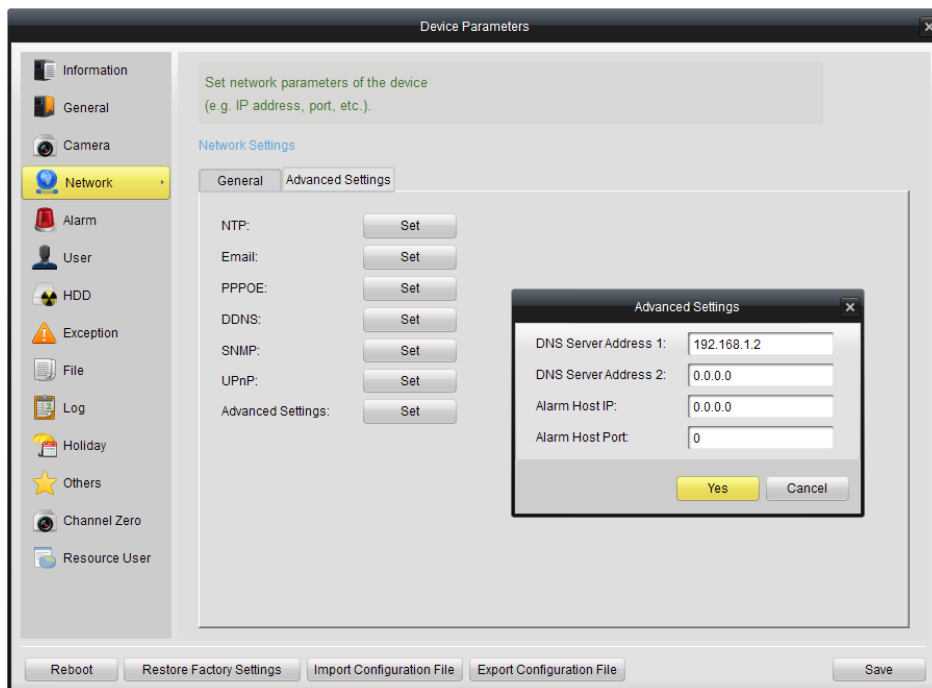
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You can configure the device in the LAN network with iVMS-4200, also all the settings can be done by device local menu.

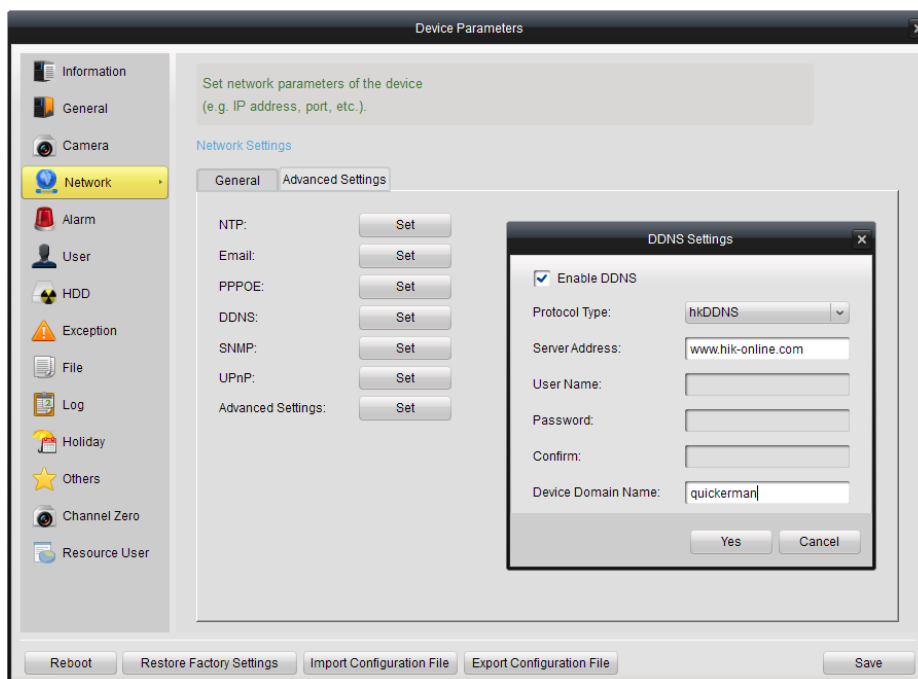
2. DNS settings:

Advance Settings > Input the DNS Server IP (This DNS IP you can refer to the PC connected in the same LAN) > Yes and Save.



3. DDNS Settings:

Advanced Settings > Enable the DDNS function > Select hkDDNS > Input the Domain Name > Yes and Save.



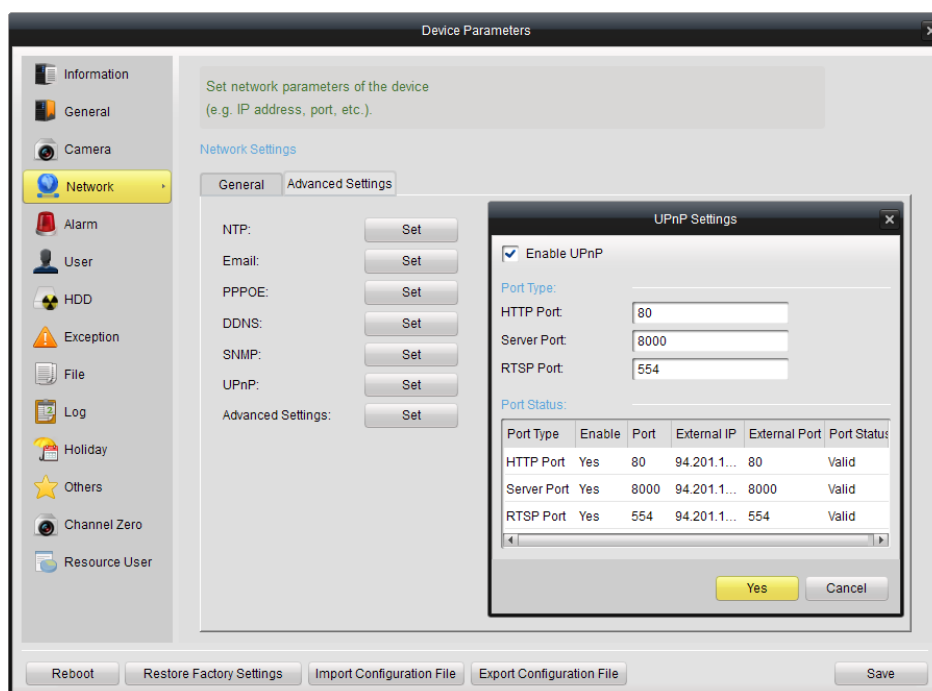
4. UPnP settings:

Enable the UPnP function > Input the port, by default http 80, device 8000, RTSP 554 >

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Yes and Save.



Note:

Then you will see the public IP showing in the External IP and Port status shows Valid. For different network, you can change the http port 80 to avoid blocking by the telecom company. Also you need to avoid ports which has been already manually forwarding in the router.

When you modify the external port in the UPnP, please also modify the internal port showing in the General interface.

UPnP settings in the DVR local menu:



DDNS Management System (optional):

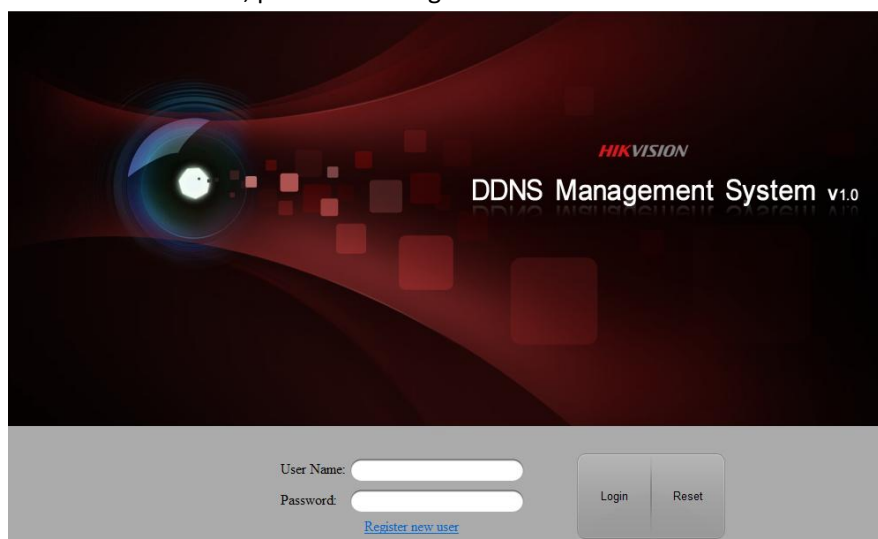
If you have several devices, you can use our DDNS Management System to check the entire status and device log.

1. Login

Open Internet Explorer In the address bar, type IP address of DDNS Management Server

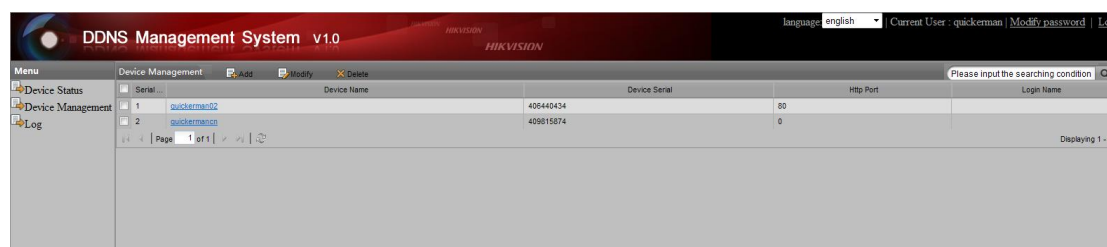
[Http://www.hik-online.com](http://www.hik-online.com)

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



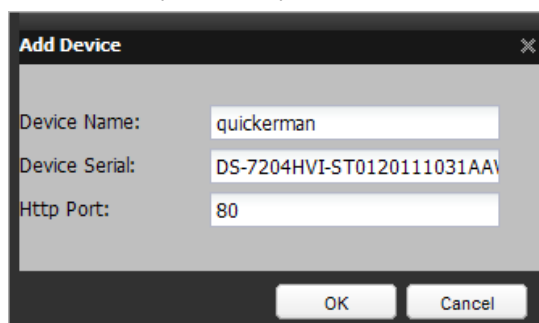
2. Device Management

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



Serial	Device Name	Device Serial	Http Port	Login Name
1	quickerman02	406440434	80	
2	quickerman03	409615874	0	

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.



Note:

The Device Alias here is used for previewing, if you change the Device name here, then the domain name in DVR will be invalid. And you must fill in the correct Device Serial No.

3. Device status.

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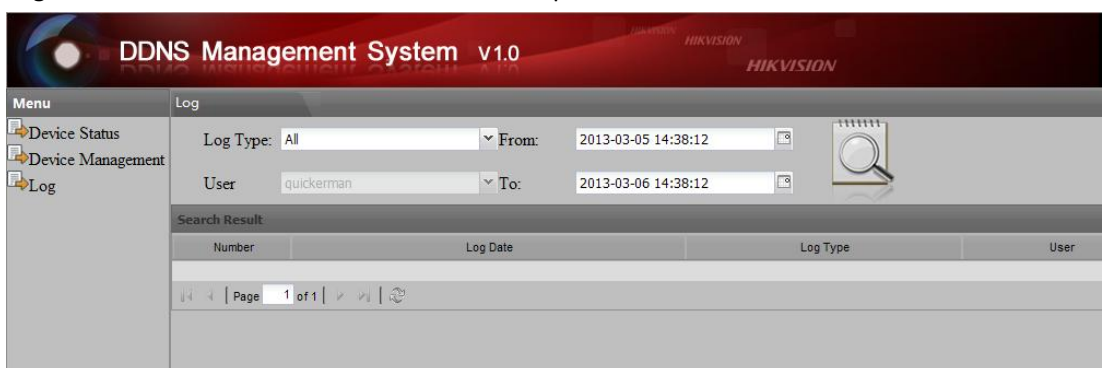
Click “Device Status” to show all added devices information like Serial number, Dynamic IP, HTTP port, DDNS IP address. And you can just click the Device Link URL to start previewing.



Serial No.	Device Name	Device Link URL	Device Serial
1	quickerman02	This device is offline.	406440434
2	quickermancn	This device is offline.	409815874

4. Log

Log Interface allows the user to view Device IP updates.



Number	Log Date	Log Type	User
--------	----------	----------	------

Log Type includes: All, Login, Logout, Device Management and Device IP Updates.

Remote Access:

1. Web

After you finish the settings in solution 1/2, then you could access the device directly through web browser by using the URL below, as long as the device is online.

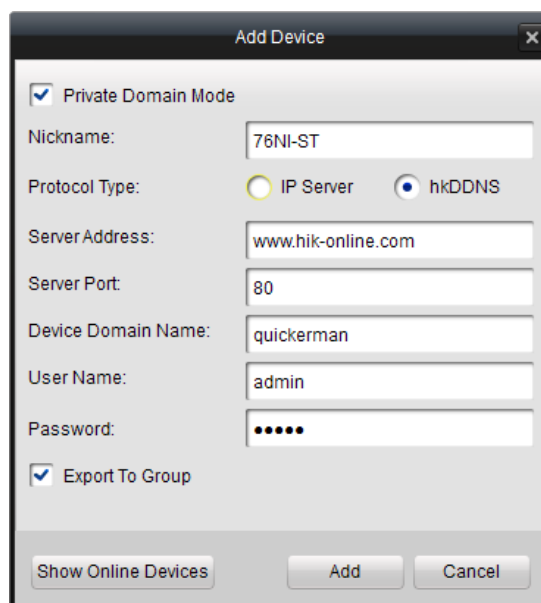
<http://www.hik-online.com/DomainGivenByYou>.

Example: <http://www.hik-online.com/quickerman>

2. PC client software.

The iVMS-4200 v1.02.00.07 or above.

Import camera > Add device > Private domain mode.

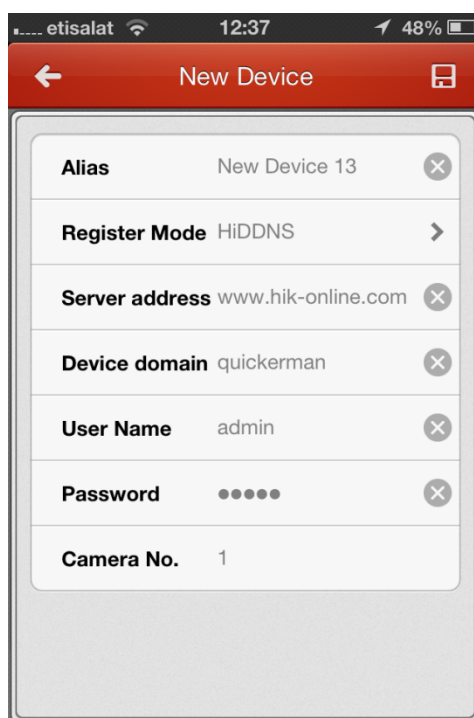


The 'Add Device' dialog box contains the following fields and options:

- ☒ Private Domain Mode
- Nickname: 76NI-ST
- Protocol Type: ☐ IP Server ☒ hKDDNS
- Server Address: www.hik-online.com
- Server Port: 80
- Device Domain Name: quickerman
- User Name: admin
- Password: •••••
- ☒ Export To Group
- Buttons: Show Online Devices, Add, Cancel

3. Mobile client.

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



The 'New Device' screen in the mobile app displays the following information:

- Alias: New Device 13
- Register Mode: HiDDNS
- Server address: www.hik-online.com
- Device domain: quickerman
- User Name: admin
- Password: •••••
- Camera No.: 1