

<b>Title:</b>	How to Use Third Party DDNS Services	<b>Version:</b>	v1.0	<b>Date:</b>	12/13/2016
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## Summary

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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

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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

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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

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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.

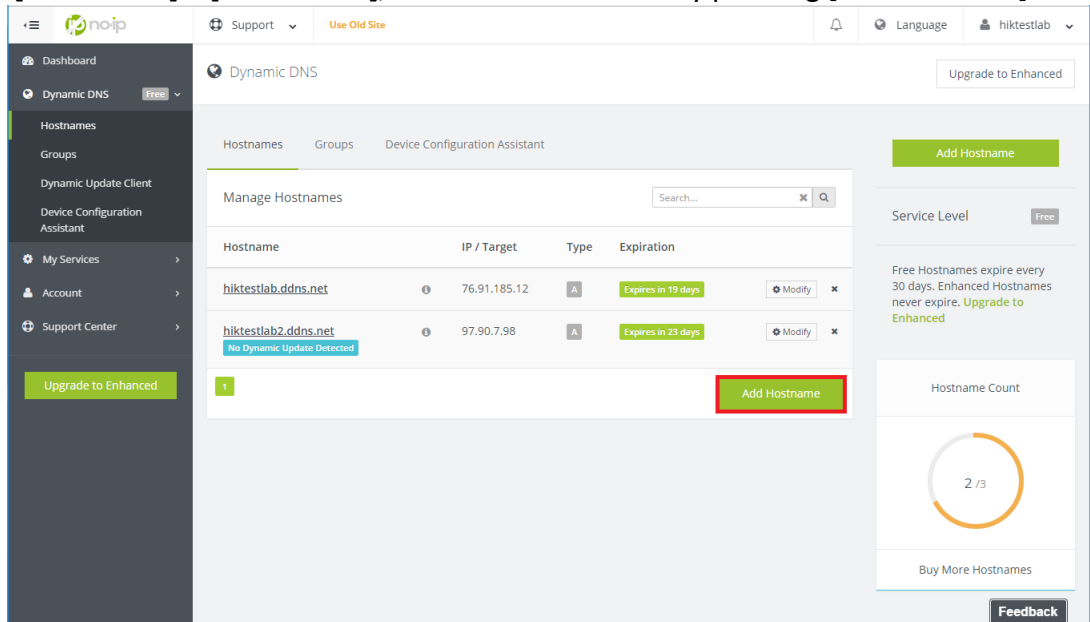
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## How to Use Third Party DDNS Services

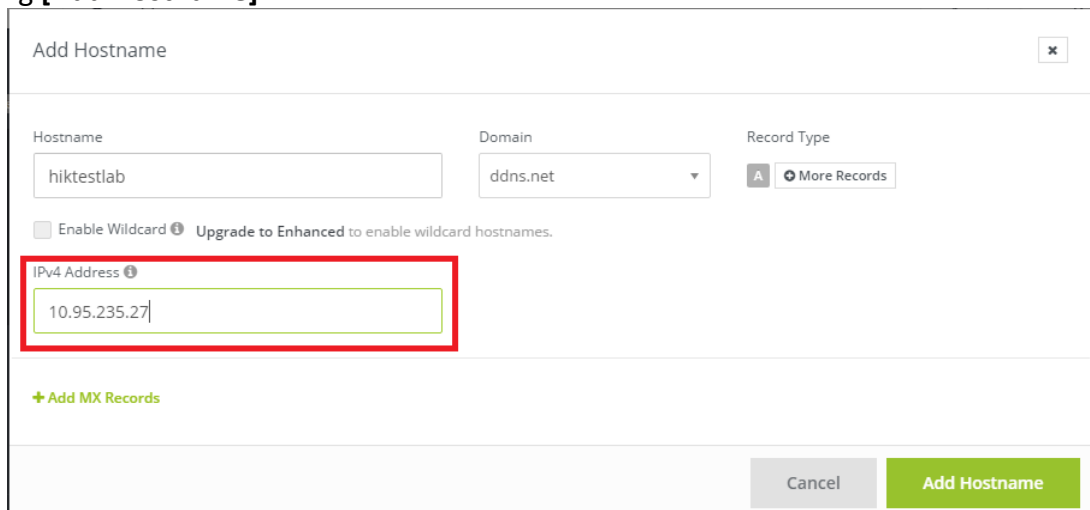
No-IP ([www.noip.com](http://www.noip.com))

### 1. No-IP Hostname Setup

- Login or Sign up for an account at [www.noip.com](http://www.noip.com)
- Under **[Dashboard]** > **[Hostnames]**, add a new hostname by pressing **[Add Hostname]**.



- 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]**.

The screenshot shows the 'Add Hostname' form. It has fields for 'Hostname' (containing 'hiktestlab'), 'Domain' (a dropdown menu with 'ddns.net' selected), and 'Record Type' (a dropdown menu with 'A' selected). Below these fields is a checkbox for 'Enable Wildcard' and a note: 'Upgrade to Enhanced to enable wildcard hostnames.' The 'IPv4 Address' field is highlighted with a red box and contains the value '10.95.235.27'. At the bottom of the form are 'Cancel' and 'Add Hostname' buttons.

- 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

- Login to the device and proceed to the **[Configuration]** menu.
- DDNS settings can be found in **[Network] > [Basic Settings] > [DDNS]**.

The screenshot shows the Hikvision web interface. The top navigation bar includes 'Live View', 'Playback', 'Picture', and 'Configuration'. The 'Configuration' tab is selected. On the left, there is a sidebar menu with 'Local', 'System', 'Network', 'Basic Settings', 'Advanced Settings', 'Video/Audio', 'Image', 'Event', and 'Storage'. The 'Basic Settings' section is expanded, and the 'DDNS' sub-tab is active. The main content area shows the DDNS configuration form with the following fields: 'Enable DDNS' (checked), 'DDNS Type' (NO-IP), 'Server Address' (dynupdate.no-ip.com), 'Domain' (hiktestlab.ddns.net), 'User Name' (hiktestlab), 'Port' (1), 'Password' (masked), and 'Confirm' (masked). A red 'Save' button is located at the bottom of the form.

- 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*
- Press **[Save]** to save your DDNS configuration.

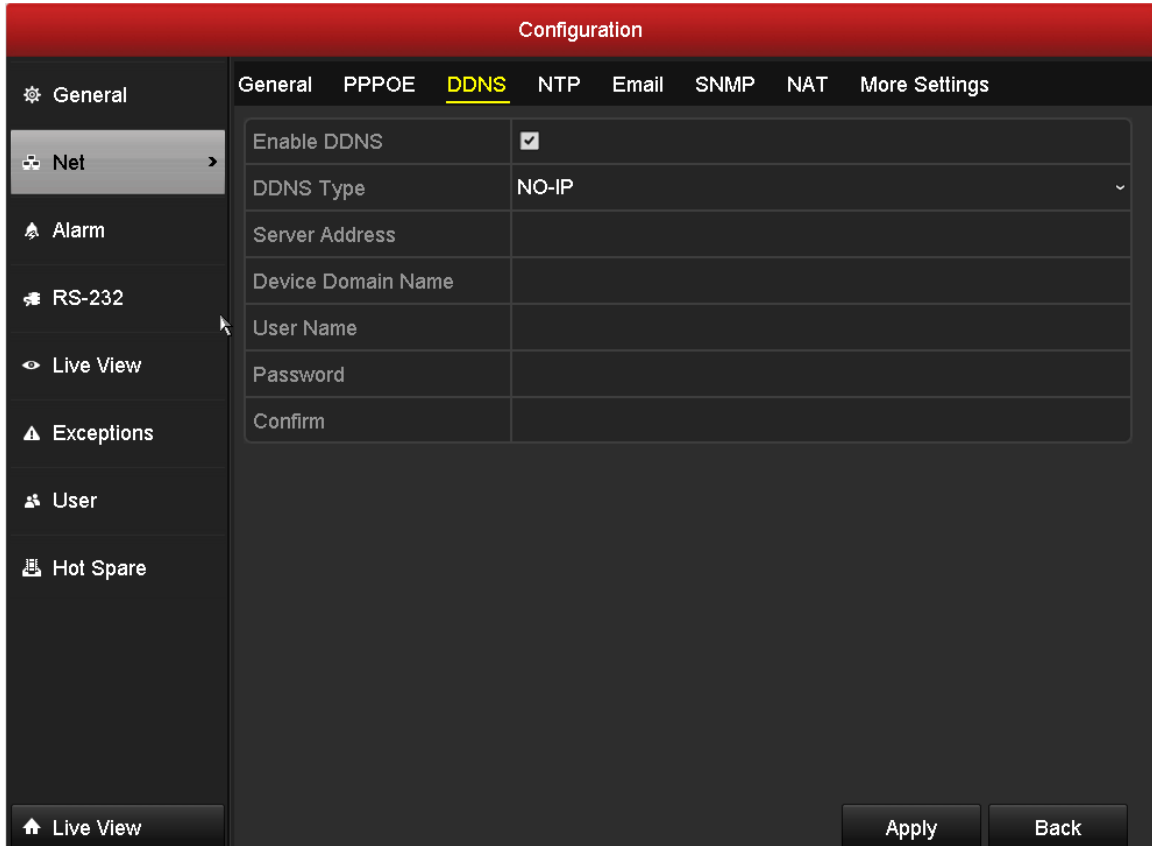
**Note:** Update clients provided by third party DDNS services are not required to be installed. The device will update hostname information when a new IP address is allocated.

## 3. DDNS Setup for NVRs/DVRs using GUI

- 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]**.



The screenshot shows the 'Configuration' page for DDNS. The left sidebar contains menu items: General, Net (selected), Alarm, RS-232, Live View, Exceptions, User, and Hot Spare. The main content area has tabs for General, PPPOE, DDNS (selected), NTP, Email, SNMP, NAT, and More Settings. The DDNS configuration table is as follows:

Field	Value
Enable DDNS	<input checked="" type="checkbox"/>
DDNS Type	NO-IP
Server Address	
Device Domain Name	
User Name	
Password	
Confirm	

At the bottom right, there are 'Apply' and 'Back' buttons.

- 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*

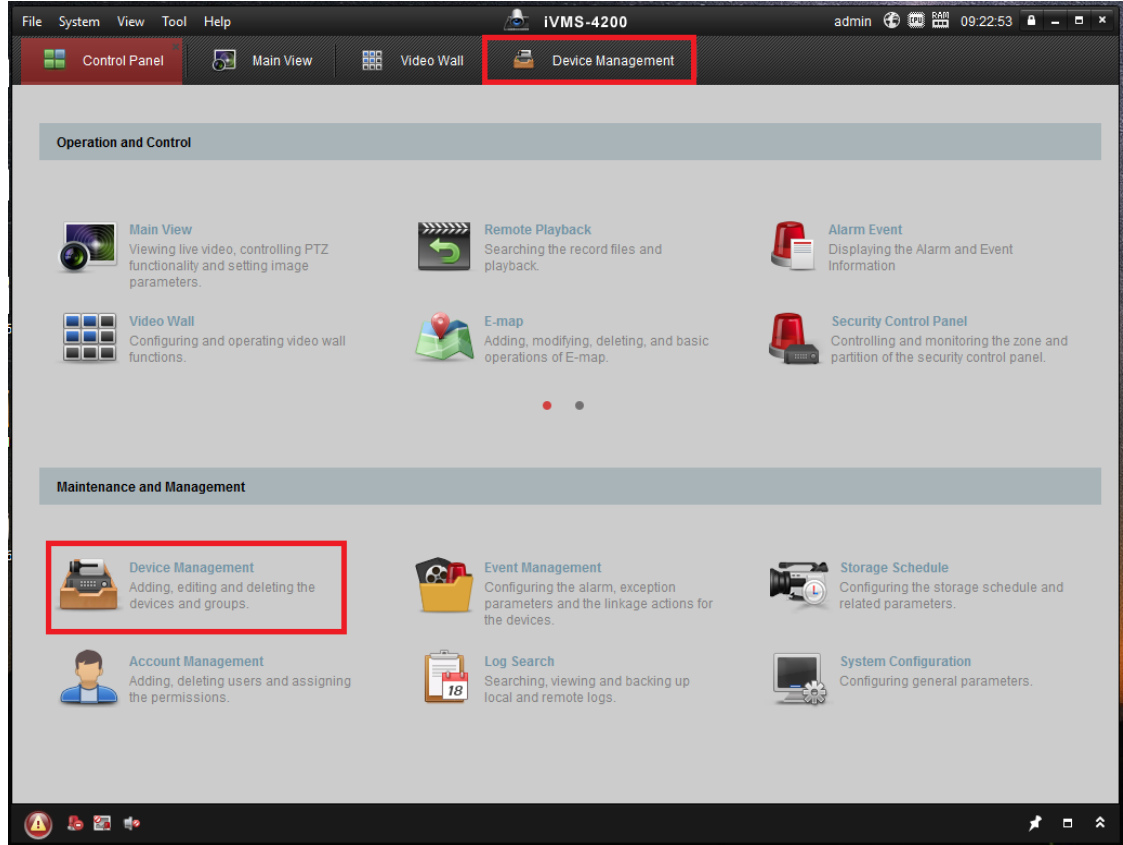
- e. Press **[Apply]** to save your DDNS configuration.

**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.

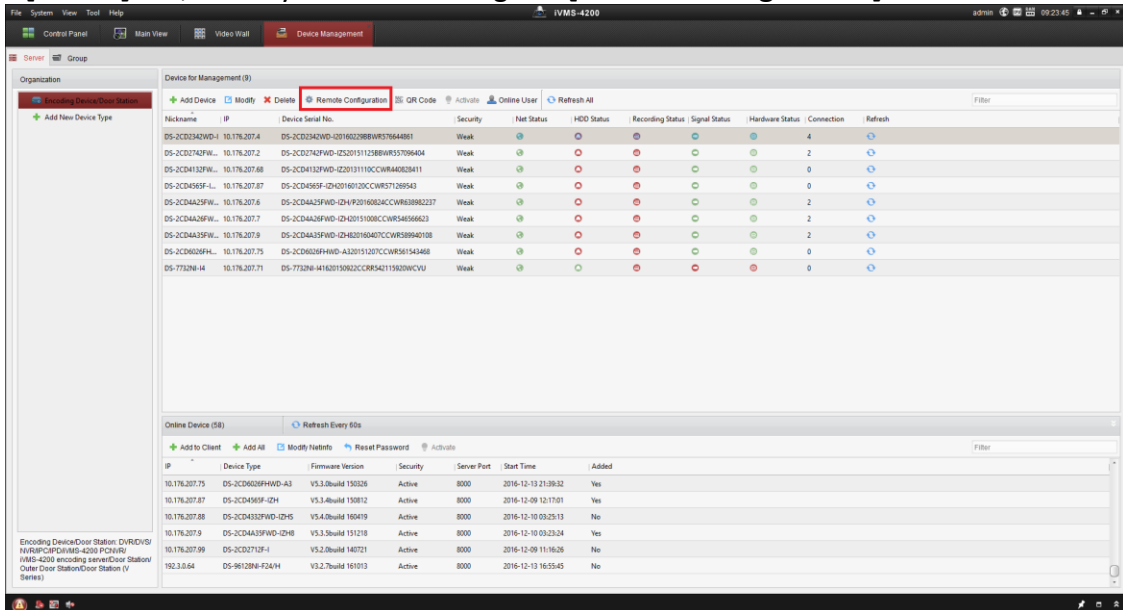
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#### 4. DDNS Setup for Cameras/NVRs/DVRs using iVMS 4200

a. Launch iVMS 4200. In **[Control Panel]**, go to **[Device Management]**.

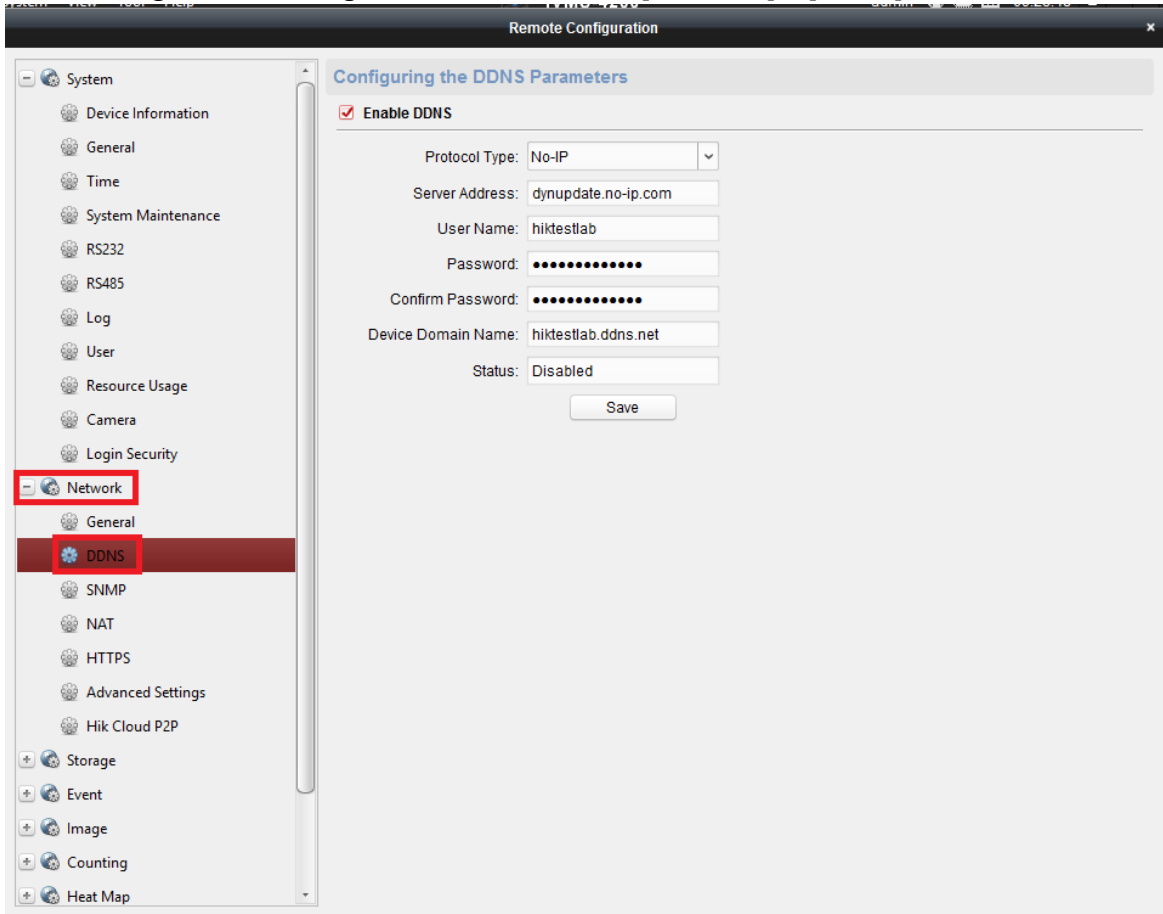


b. In the **[Server]** tab, select your device and go to **[Remote Configuration]**.



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



- 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.

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## 1. DynDNS Hostname Setup

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

The screenshot shows the DynDNS Pro account dashboard. At the top, there is a navigation bar with the Dyn logo, a search bar, and links for 'Back to Dyn', 'Welcome rodrigokim VIP', 'My Services', 'My Cart', and 'Log Out'. Below the navigation bar, there is a yellow notification banner that reads: 'Risk-Free, 7-Day Trial Of Managed DNS Express. Looking to test drive our fastest, most reliable DNS? Get started with our free 7-day trial of Managed DNS Express today! [Browse 7-Day Free Trial Options](#)'. Below this, another yellow banner says: 'You have not generated an updater client key! Please [generate a key](#) for use with update clients to help keep your account credentials secure. [dismiss](#)'. The main content area is divided into three columns: 'My Account', 'My Services', and 'Account Settings'. The 'My Services' column is highlighted with a red box and contains a list of services: 'My Zones/Domains', 'Add Zone/Domain Services', 'My Hosts', 'Add Host Services', 'DynDNS Pro' (highlighted with a red box), 'Managed DNS Express', 'Internet Guide', 'Health Check', 'Support', and 'Contact Support'. The 'Account Settings' column contains options like 'Change Email Address', 'Change Password', 'Change Username', 'Contact Manager', 'Mailing Lists', 'Move Services', 'Preferences', and 'Close Account'. A yellow box in the center of the dashboard contains the text: 'It looks like you have purchased Pro but haven't created any hostnames. Let's get you set up: 1. [Create](#) your Dynamic DNS hostname. 2. [Install an update client](#) to ensure your hostname is always pointed to the correct IP address. 3. For more detailed instructions, please see our [Dyn Wizard](#).'

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

The screenshot shows the 'DynDNS Pro and Host Services' page. At the top, there is a navigation bar with the Dyn logo, a search bar, and links for 'Back to Dyn', 'Welcome rodrigokim VIP', 'My Services', 'My Cart', and 'Log Out'. Below the navigation bar, there is a yellow notification banner that reads: 'You have not generated an updater client key! Please [generate a key](#) for use with update clients to help keep your account credentials secure. [dismiss](#)'. The main content area is divided into three columns: 'My Account', 'DynDNS Pro and Host Services', and 'Account Settings'. The 'DynDNS Pro and Host Services' column is highlighted with a red box and contains a list of services: 'DynDNS Pro/Hosts', 'Managed DNS Express', 'Domain names, DNS hosting, Dyn Email services', 'Health Check', 'Internet Guide', 'Email Delivery Express', 'Renew Services', 'Auto Renew Settings', 'Sync Expirations', 'Tips on Getting Started', 'Account Settings', and 'Billing'. The 'Account Settings' column contains options like 'Change Email Address', 'Change Password', 'Change Username', 'Contact Manager', 'Mailing Lists', 'Move Services', 'Preferences', and 'Close Account'. A yellow box in the center of the dashboard contains the text: 'It looks like you have purchased Pro but haven't created any hostnames. Let's get you set up: 1. [Create](#) your Dynamic DNS hostname. 2. [Install an update client](#) to ensure your hostname is always pointed to the correct IP address. 3. For more detailed instructions, please see our [Dyn Wizard](#)'. Below this, there is a table titled 'DYN DNS HOSTNAMES' with columns 'HOSTNAME', 'SERVICE', 'DETAILS', and 'LAST UPDATED'. The table contains one row: 'hiktestlab.dyndns.org', 'Host', '76.91.185.12', and 'Dec. 14, 2016 11:30 AM'. Below the table, there is a '+ Add New Hostname' button highlighted with a red box. There are also links for '> Add External WebHop' and '> Host Update Logs'. Below the table, there is a section titled 'SINGLE PACKAGE OF PRO' with a '+ Add More Pro' button. The section contains a table with columns 'PACKAGE' and 'EXPIRATION DATE'. The table contains one row: 'DynDNS Pro (cancel) (renew now)', 'December 20, 2016'. Below the table, there is a section titled 'HOSTNAMES AVAILABLE' with the text: 'You are using 1 of the 30 hosts currently available in your account. You have 29 hostnames remaining'. At the bottom, there is a link to 'Join the discussion in the [DynDNS Community](#) for tips and tricks, demos, suggestions, user help and much more.'

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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:**  .

**Wildcard:**  create "\*.host.dyndns-yourdomain.com" alias (for example to use same settings for www.host.dyndns-yourdomain.com)

**Service Type:**  Host with IP address  
 WebHop Redirect (URL forwarding service)  
 Offline Hostname

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**IP Address:**   
[Your current location's IP address is 70.211.131.127](#)

IPv6 Address (optional):

TTL value is 60 seconds. [Edit TTL...](#)

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**Mail Routing:**  I have mail server with another name and would like to add MX hostname...

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

The screenshot shows the DynDNS Pro dashboard. At the top, there's a navigation bar with "Back to Dyn", "Welcome rodrigokim VIP", "My Services", "My Cart", and "Log Out". A search bar is on the right. Below the navigation bar, there's a yellow warning banner: "You have not generated an updater client key! Please generate a key for use with update clients to help keep your account credentials secure. [dismiss]".

The main content area is titled "DynDNS Pro and Host Services". It shows a notification: "Hostname hiktestlab.dyndns.org updated." Below this, there's a blue box with the text: "If you've created a hostname for a Linksys Router, download our free app for an automatic router setup. [Download the Linksys Router Setup App] Otherwise you will need to complete a manual router configuration to use DynDNS!".

The "DYNDNS HOSTNAMES" section contains a table with the following data:

HOSTNAME	SERVICE	DETAILS	LAST UPDATED
hiktestlab.dyndns.org	Host	70.211.131.127	Dec. 14, 2016 11:19 AM

Below the table, there are links for "Add External WebHop" and "Host Update Logs".

The "SINGLE PACKAGE OF PRO" section shows a table with the following data:

PACKAGE	EXPIRATION DATE
DynDNS Pro (cancel) (renew now)	December 20, 2016

The "HOSTNAMES AVAILABLE" section shows a yellow box with the text: "You are using 1 of the 30 hosts currently available in your account. You have 29 hostnames 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]**.

The screenshot shows the Hikvision web interface. The top navigation bar includes 'Live View', 'Playback', 'Picture', and 'Configuration'. The left sidebar has a menu with 'Local', 'System', 'Network', 'Basic Settings', 'Advanced Settings', 'Video/Audio', 'Image', 'Event', and 'Storage'. The 'Basic Settings' section is expanded, and the 'DDNS' tab is selected. The configuration fields are as follows:

Enable DDNS	<input checked="" type="checkbox"/>
DDNS Type	DynDNS
Server Address	members.dyndns.org
Domain	hiktestlab.dyndns.org
User Name	rodrigokim
Port	1
Password	*****
Confirm	*****

A red 'Save' button is located at the bottom of the configuration area.

- 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:** *Your DynDNS password*
- d. Press **[Save]** to save your DDNS configuration.

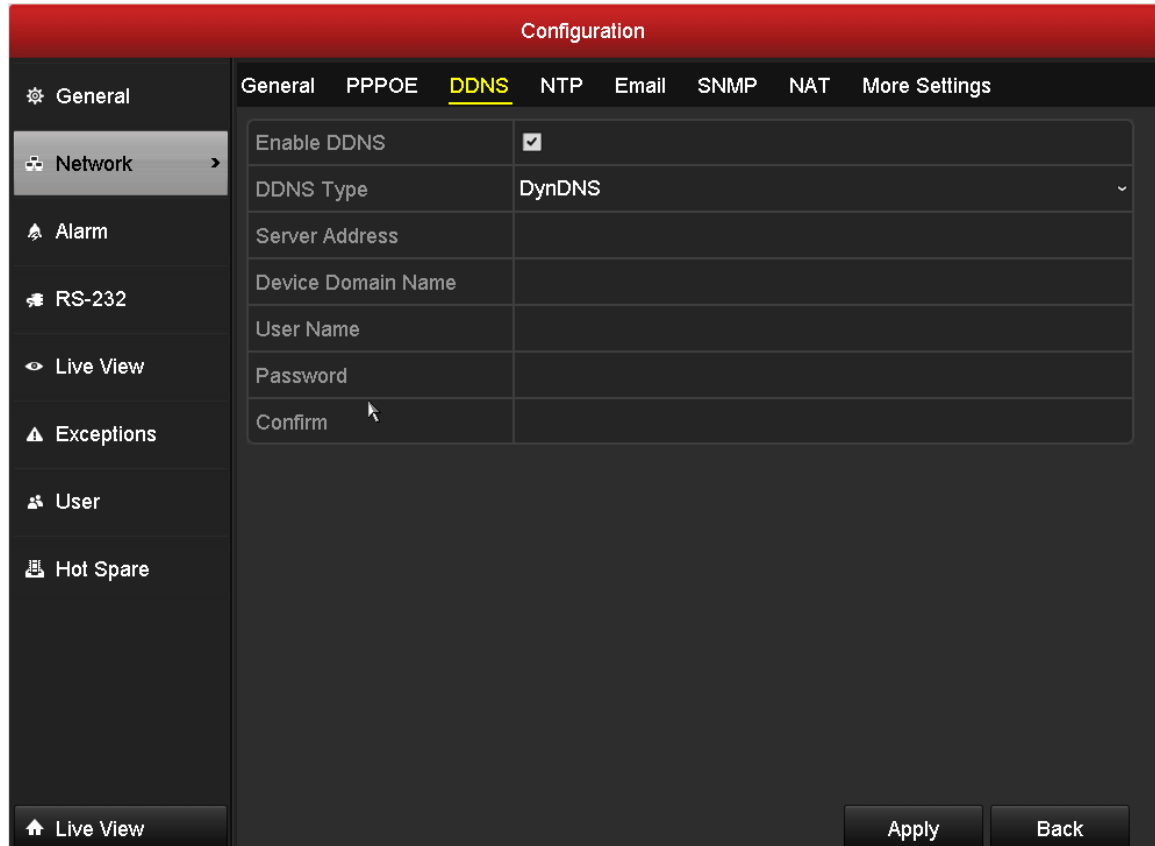
**Note:** Update clients provided by third party DDNS services are not required to be installed. The device will update hostname information when a new IP address is allocated.

### 3. DDNS Setup for NVRs/DVRs using GUI

- 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]**.



The screenshot shows the 'Configuration' page for DDNS. The left sidebar has 'Network' selected. The main area has tabs for 'General', 'PPPOE', 'DDNS', 'NTP', 'Email', 'SNMP', 'NAT', and 'More Settings'. The 'DDNS' tab is active, showing a form with the following fields:

Enable DDNS	<input checked="" type="checkbox"/>
DDNS Type	DynDNS
Server Address	
Device Domain Name	
User Name	
Password	
Confirm	

At the bottom right, there are 'Apply' and 'Back' buttons.

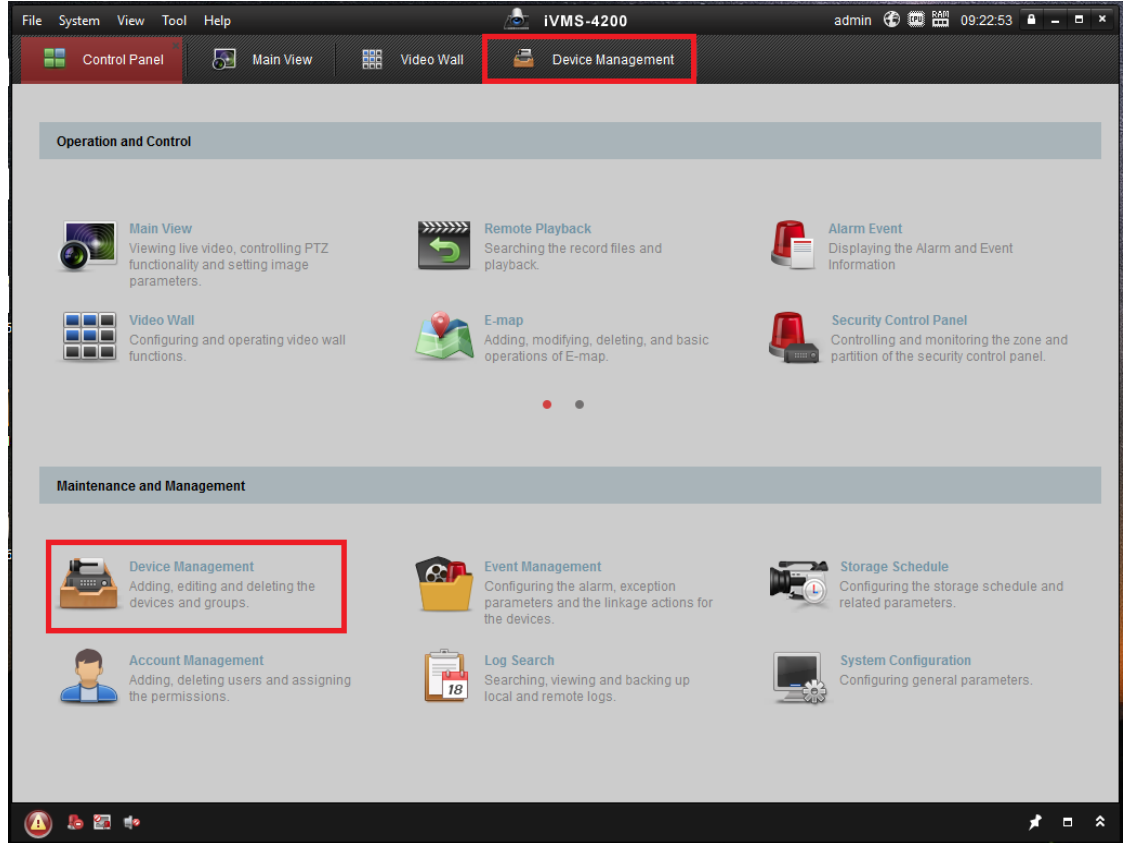
- d. Check the box for **[Enable DDNS]**, and fill out the provided fields:  
**DDNS Type:** DynDNS  
**Server Address:** *members.dyndns.org*  
**Device Domain Name:** *configured hostname from part 1 (DynDNS hostname setup)*  
**User Name:** *Your DynDNS username*  
**Password:** *Your DynDNS password*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

**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.

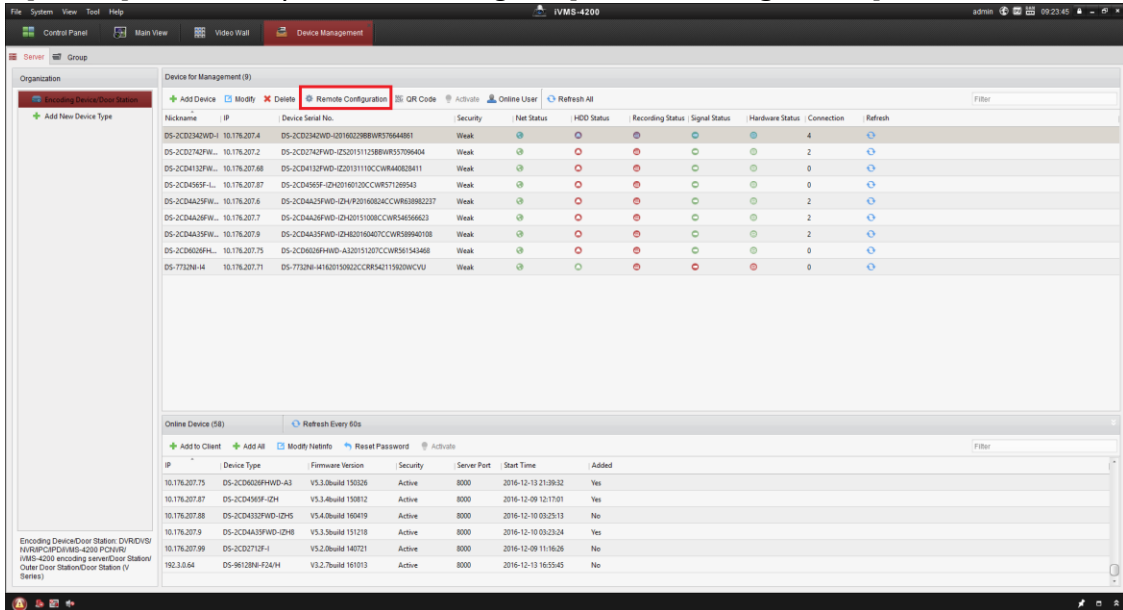
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#### 4. DDNS Setup for Cameras/NVRs/DVRs using iVMS 4200

a. Launch iVMS 4200. In **[Control Panel]**, go to **[Device Management]**.



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



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

Remote Configuration

Configuring the DDNS Parameters

Enable DDNS

Protocol Type: DynDNS

Server Address: members.dyndns.org

User Name: rodrigokim

Password: .....

Confirm Password: .....

Device Domain Name: hiktestlab.dyndns.org

Status: No Status

Save

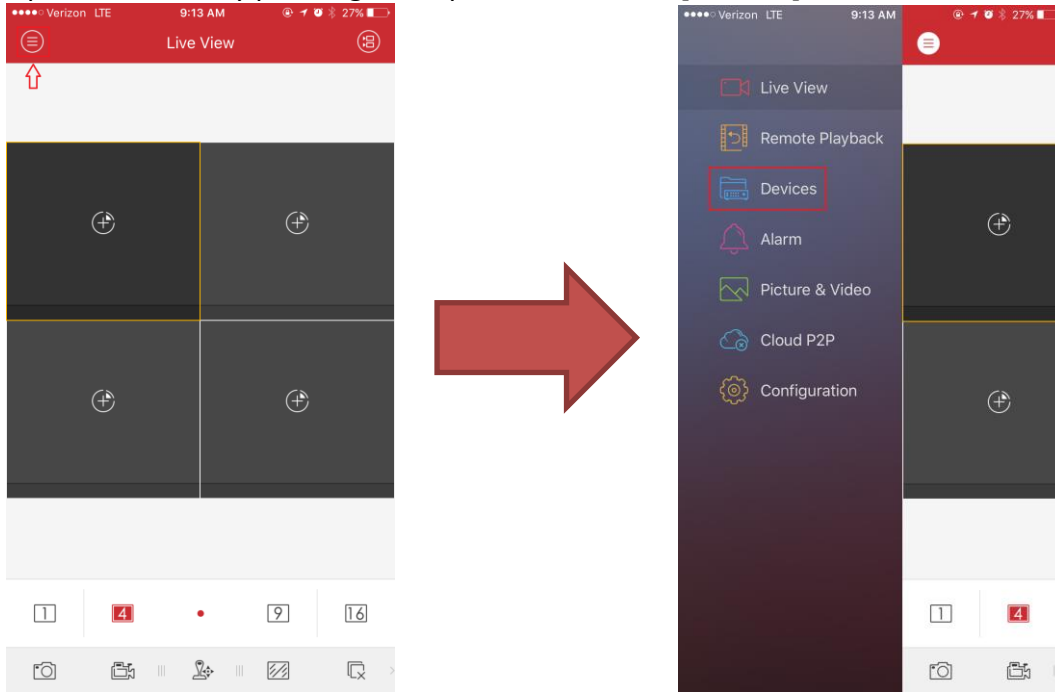
- d. Check the box for **[Enable DDNS]**, and fill out the provided fields:  
**DDNS Type:** DynDNS  
**Server Address:** *members.dyndns.org*  
**User Name:** *Your DynDNS username*  
**Password/Confirm:** *Your DynDNS password*  
**Device Domain Name:** *configured hostname from part 1 (DynDNS hostname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

**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.

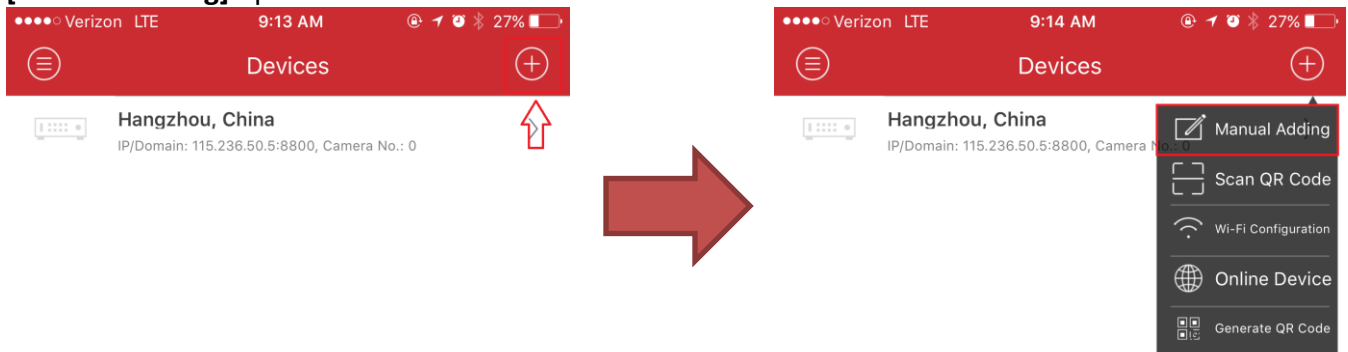
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## Adding DDNS configured devices to iVMS 4500

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



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

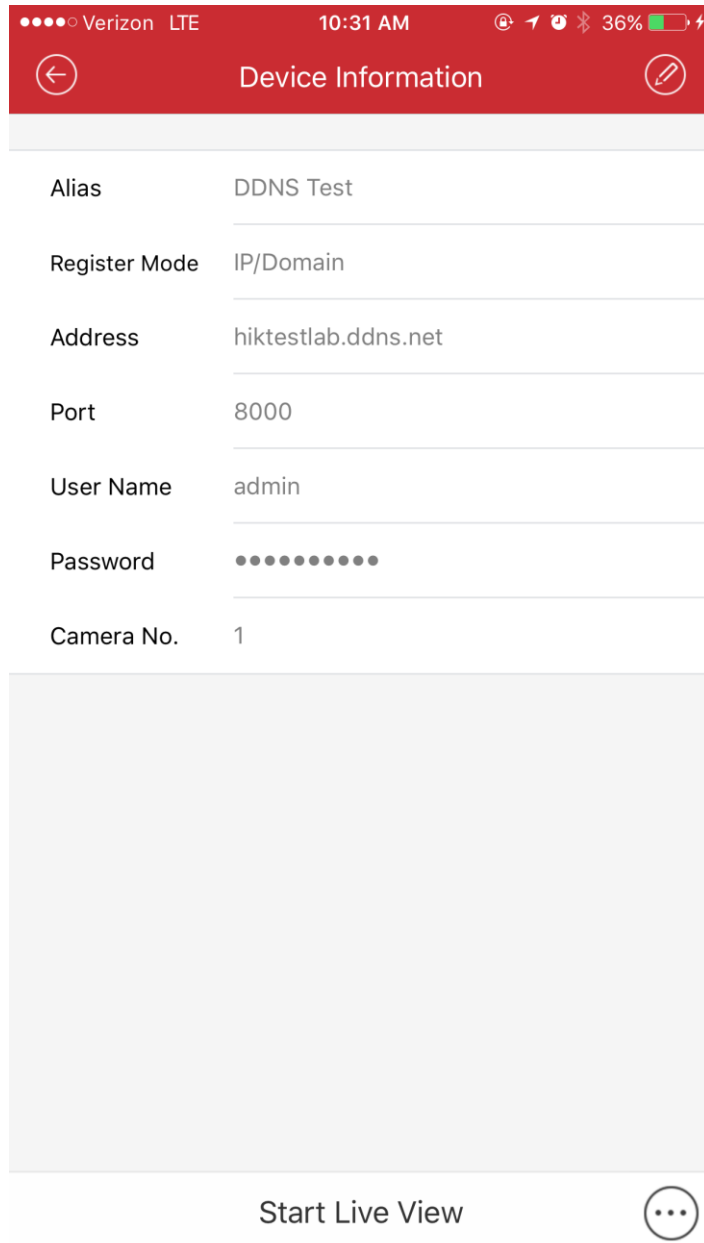
**Address:** Hostname created from your DDNS account.

**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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5. Press **[Start Live View]** to view your device.



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