



CAMERA INTEGRATION

MXHomePro™

MX HOMEPRO

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Viewing Cameras in MX-HomePro:

A URC Z-Wave Gateway is REQUIRED for integration with MX-HomePro!

Overview:

Setting up cameras for use in an MX-HomePro system is fairly easy. Although all cameras do not work with this product, the ever growing list of compatible brands/models can be found here as we add the URL strings necessary for it to work.

In order for a cameras to work in MX-HomePro it first must be associated with **URC's Z-Wave Gateway**. All cameras must (at minimum) be compatible with this device for it to work.

When a camera is fully compatible, it is visible in the following ways:

- **Handheld Remote Control (MXHP-R700/R500)**

Once a camera is associated correctly a Cameras menu appears on the Home page of the remote. Selecting this option shows all the cameras that have been configured to work with the system. If a camera is not visible, it may simply require a configuration period (of up to five (5) minutes) or may not be compatible at all with the handheld remote.

- **URC Home App (iOS or Android)**

The **URC Home** app (used for control and configuring Z-Wave devices/scenes) displays the Camera image (under the Devices or Camera section of the app menu) when the mobile/tablet device is on the same local area network (LAN).

If the user desires to see the camera (or use the app in any way) from other locations, off the local network, the customer **MUST** subscribe for the annual subscription via the Z-Wave User Portal.



MXHP-R500



MXHP-R700

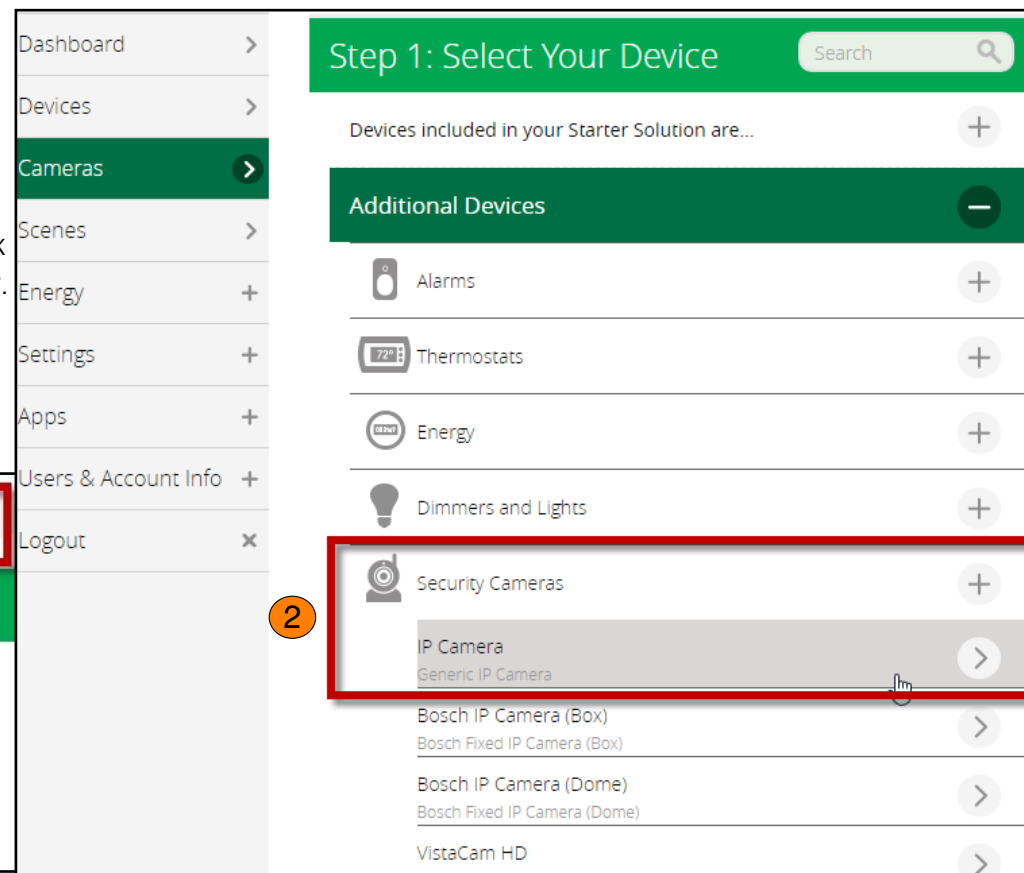
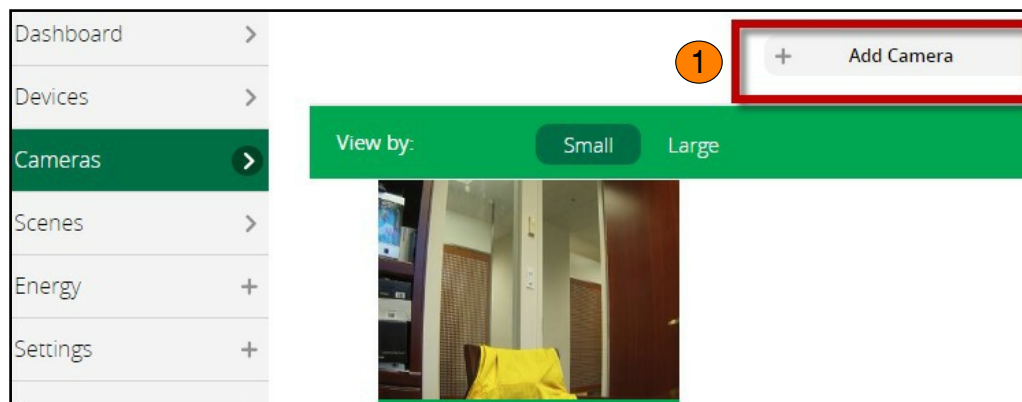


URC Smart Home

Associating a Camera with URC's Z-Wave Gateway:

To associate a camera within UI7, follow these steps:

1. Go to the "**Cameras**" section of the menu, select the "**+Add Camera button**" on the top right area of the page.
2. The list of device types to include now appears. Since you are adding a network camera, find "**Security Cameras**" in the list and click on it to expand the entry. Now locate **IP Camera - Generic IP Camera** in the available options and select it.



3. Enter all the information needed to connect to the camera.

Dashboard >
Devices >
Cameras >
Scenes >
Energy +
Settings +
Apps +
Users & Account Info +
Logout x

Step 2: Pair Your Device

- Name the camera: *
- Select camera type: *

Please select the camera type ▼
- Fill in the IP address: *
- Fill in the username and password:
Username:
Password:
- And then select a room where this device will be located:
Room

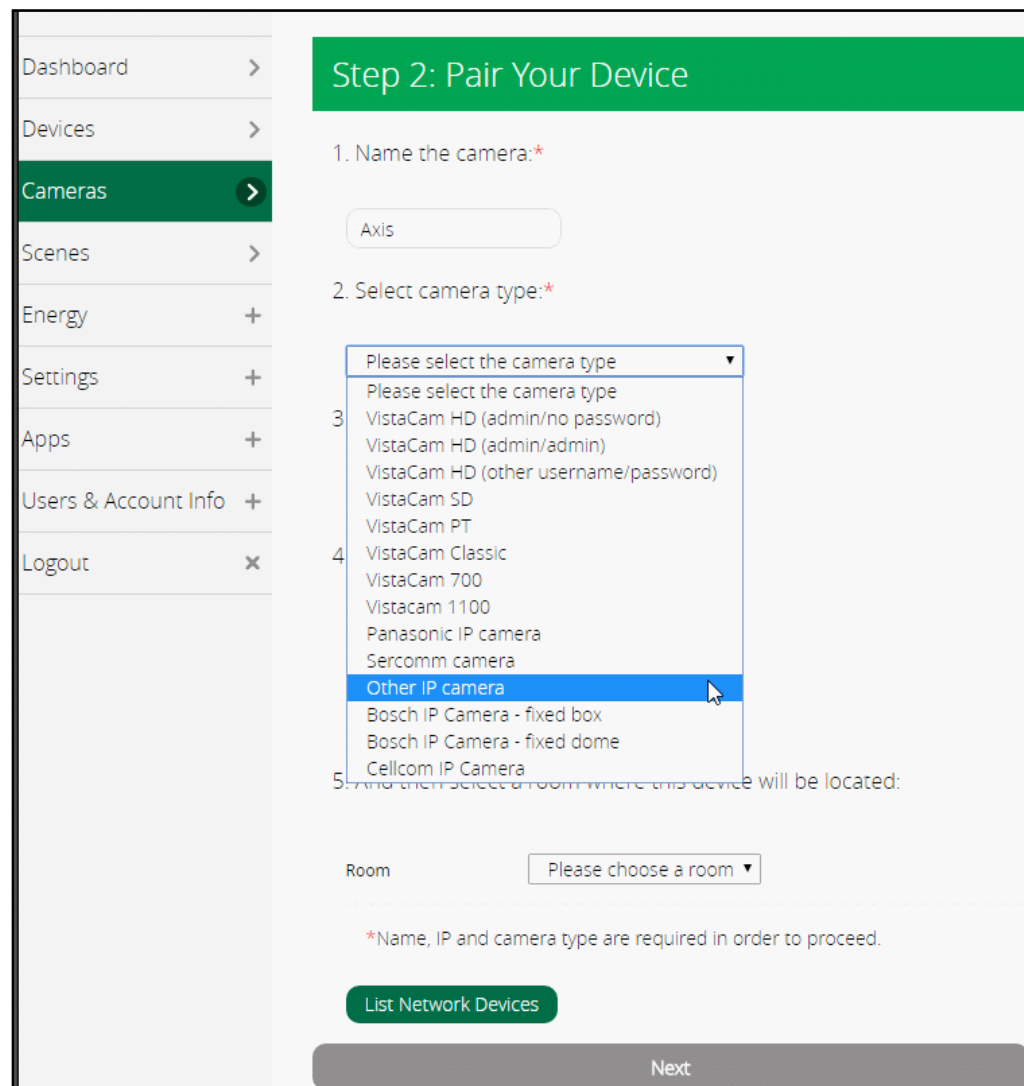
Please choose a room ▼

*Name, IP and camera type are required in order to proceed.

List Network Devices

Next

4. Start by entering a name for the camera in field 1. This label appears on the user interface when the camera is viewed. Then in field 2 select the camera type from the list. Select **Other IP camera** from the list.



The screenshot displays the 'Step 2: Pair Your Device' interface. On the left is a sidebar menu with options: Dashboard, Devices, Cameras (highlighted), Scenes, Energy, Settings, Apps, Users & Account Info, and Logout. The main content area has a green header 'Step 2: Pair Your Device'. Below it, step 1 'Name the camera: *' has a text input field containing 'Axis'. Step 2 'Select camera type: *' features a dropdown menu with the title 'Please select the camera type'. The dropdown list includes: VistaCam HD (admin/no password), VistaCam HD (admin/admin), VistaCam HD (other username/password), VistaCam SD, VistaCam PT, VistaCam Classic, VistaCam 700, Vistacam 1100, Panasonic IP camera, Sercomm camera, **Other IP camera** (highlighted by a mouse cursor), Bosch IP Camera - fixed box, Bosch IP Camera - fixed dome, and Cellcom IP Camera. Step 5 'And then select a room where this device will be located:' has a 'Room' label and a dropdown menu with 'Please choose a room'. A red asterisk note states '*Name, IP and camera type are required in order to proceed.' At the bottom are two buttons: 'List Network Devices' and a greyed-out 'Next' button.

- After selecting the camera type, **enter the URL that provides a JPG snapshot from the camera**, nearly all IP cameras have this capability. If the camera's setup screen have the option you should set the resolution of the snapshot in the **649 x 480** range. If you copy the URL from the list we provide replace <camera ip> with the actual camera IP address and port, if port is set to other than **80**. For example, the URL for a Lilin camera with IP address **192.168.1.200** and port set to **43878** is: **http://192.168.1.200:43878/snap**.

It is very important that any camera setup here do not change IP address later or the system can lose connection to that camera. Make sure that all cameras are set to a static IP address or that there is an IP address reservation set for the camera in the network's DHCP server. The DHCP server role is usually handled by the network router or domain controller.

Dashboard >
Devices >
Cameras >
Scenes >
Energy +
Settings +
Apps +
Users & Account Info +
Logout x

Step 2: Pair Your Device

- Name the camera: *
- Select camera type: *

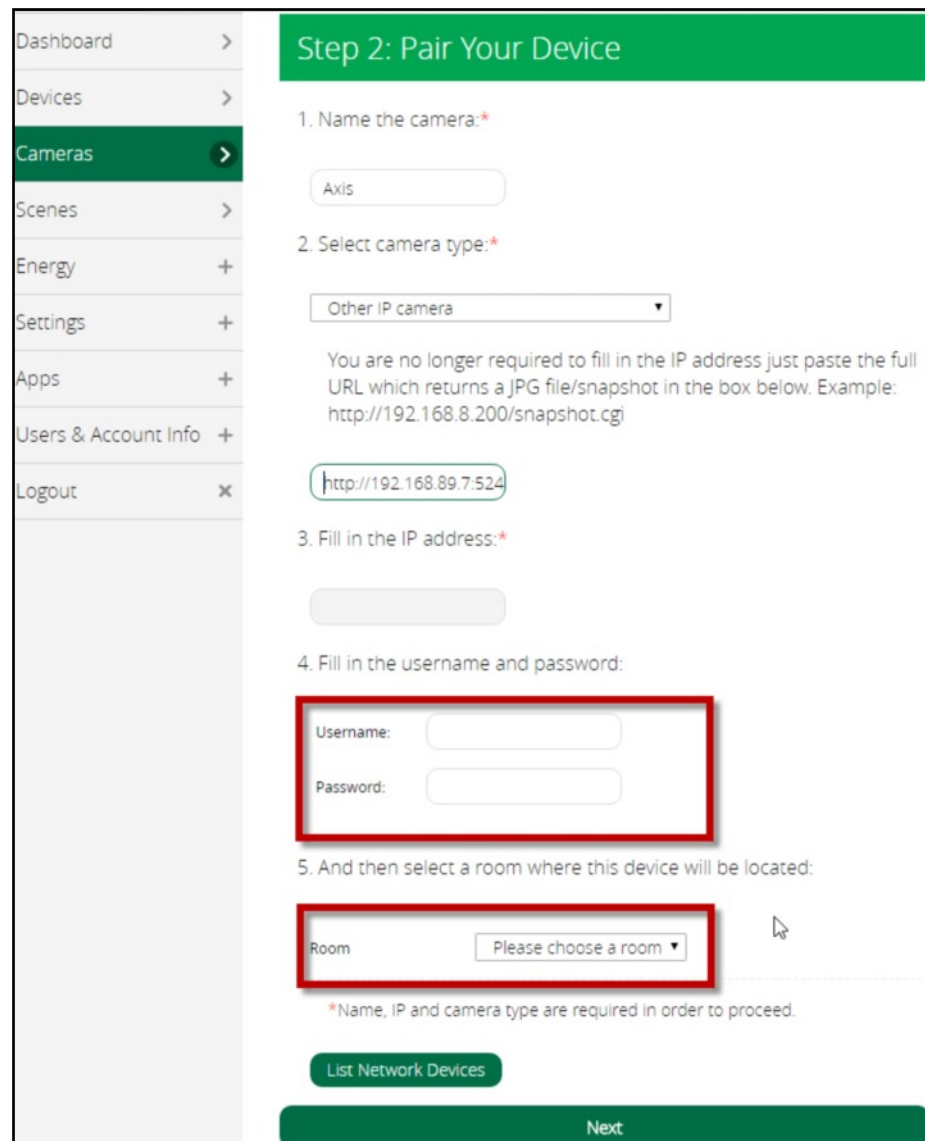
You are no longer required to fill in the IP address just paste the full URL which returns a JPG file/snapshot in the box below. Example: <http://192.168.8.200/snapshot.cgi>
- Fill in the IP address: *
- Fill in the username and password:
Username:
Password:
- And then select a room where this device will be located:
Room

*Name, IP and camera type are required in order to proceed.

List Network Devices

Next

6. Next fill in the **username** and **password** that are required to view the camera image. Then select the **room** where the camera is to appear and click **Next** when finished.



Dashboard >

Devices >

Cameras >

Scenes >

Energy +

Settings +

Apps +

Users & Account Info +

Logout x

Step 2: Pair Your Device

1. Name the camera:*
2. Select camera type:*
3. Fill in the IP address:*
4. Fill in the username and password:
5. And then select a room where this device will be located:

You are no longer required to fill in the IP address just paste the full URL which returns a JPG file/snapshot in the box below. Example: `http://192.168.8.200/snapshot.cgi`

*Name, IP and camera type are required in order to proceed.

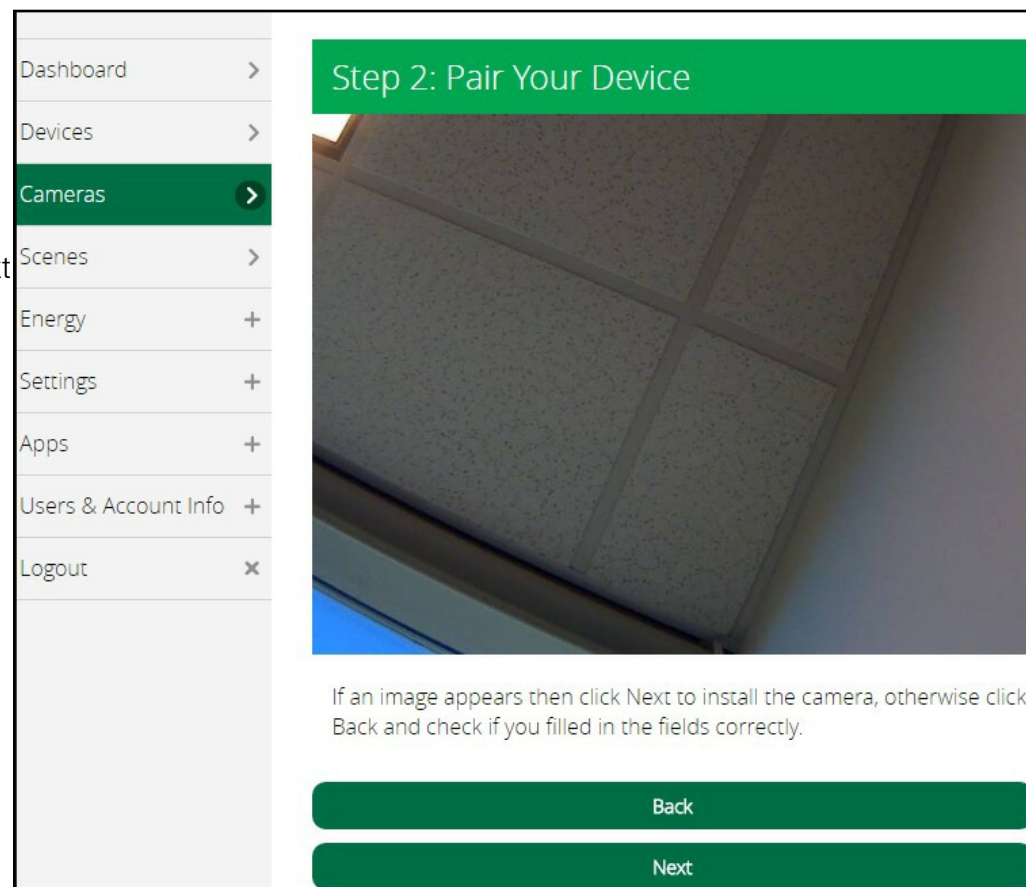
List Network Devices

Next

7. On the next screen the system tries to connect to the camera and display an image. If everything has been done correctly, after a few seconds the camera displays an image. If not, select the back button and check your work. Click Next and you are done!

Summary of Steps:

- a. Go to **Cameras** and click **Add Camera**
- b. Select **Security Camera/Generic IP Camera**
- c. Manually install the camera by entering a **name**, selecting **Other Camera**, entering the full **URL** for a snapshot image, entering the **username**, **password**, and **room** where the camera should be displayed.
- d. Check that an image is displayed



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Camera URL:

This list represents the currently supported models and URL's. Keep in mind that this document is every expanding and new models are going to be add to this list.

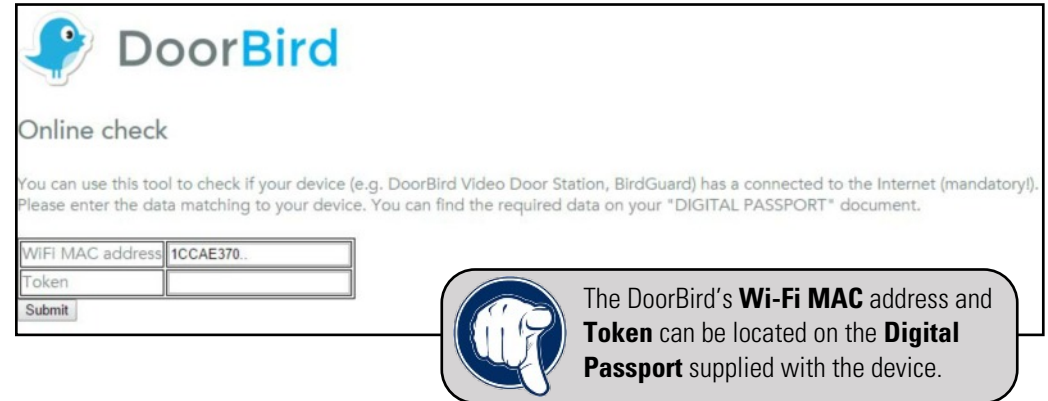
Brand	URL	On Remote		URC Home Android		Verified PC	Notes
		Verify	Verify	Verify	Verify		
Axis	http://<camera ip>/axis-cgi/jpg/image.cgi?resolution=640x480	Yes	Yes	Yes	Yes		
Channel Vision	http://<camera ip>/GetImage.cgi	Yes	Yes	Yes	Yes		
Digital Watchdog	http://<camera ip>/image1/jpeg	Yes	Yes	Yes	Yes		Slow image cycle on remote
FLIR	http://<camera ip>/cgi-bin/snapshot.cgi				Yes		
Foscam	http://<camera ip>/cgi-bin/CGIProxy.fcgi?cmd=snapPicture2				No		
GenIV	http://<camera ip>/cgi-bin/snapshot.cgi	No	Yes	Yes	Yes		
Hikvision	http://<camera ip>/Streaming/channels/1/picture?snapShotImageType=JPEG	Yes	Yes	Yes	Yes		
Hunt	http://<camera ip>/GetImage.cgi				No		
IC Realtime	http://<camera ip>/cgi-bin/snapshot.cgi?subtype=1	No	Yes	Yes	Yes		Subtype=1 reduces snapshot resolution and may not be supported on all cam
IC Realtime (older models)	http://<camera ip>/cgi-bin/snapshot.cgi?channel=1&subtype=0				No		main stream
IC Realtime (older models)	http://<camera ip>/cgi-bin/snapshot.cgi?channel=1&subtype=1?0. mainstream. 1substream				No		sub stream/lower resolution
Lilin	http://<camera ip>/snap	Yes	Yes	Yes	Yes		
Vivotek	http://<camera ip>/cgi-bin/viewer/video.jpg	Yes	Yes	Yes	Yes		
Wirepath (SnapAV)	http://<camera ip>/wps-cgi/jpg/image.cgi?camera=1&resolution=640x480	Yes	Yes	Yes	Yes		
Dahua	/cgi-bin/snapshot.cgi?channel=0				no		
Luma (SnapAV)	http://<camera ip>/wps-cgi/image.cgi?camera=1&StreamNum=2&resolution=640x360&username=admin&password=admin						
Panasonic	http://<camera ip>/SnapshotJPEG?Resolution=640x480&Quality=Standard	Yes	Yes	Yes	Yes		
Speco	unknown						
ZuumMedia	http://<camera ip>/cgi-bin/image.cgi?userName=<username>&password=<password>&cameraID=< cameraID >&quality =9						Range : 1-9, 9=Highest

Using DoorBird in Z-Wave (TinyCam Monitor):

These instructions were written using the DoorBird D10X, but also works with the surface edition (D20X) or Birdguard (B10X).

1. Preparation:

- Follow **DoorBird installation instructions** and verify that it works properly with the DoorBird application
- Discover the **DoorBird device's IP address** using the following URL:
 - ❑ <https://www.doorbird.com/checkonline>
- 3rd Party IP scanning software such as **Angry IP Scanner** can be utilized to find the device's IP address. Search for the device starting with the following hostname:
 - ❑ "bha-"
- In this example, the DoorBird's IP address is: **192.168.178.15**



DoorBird

Online check

You can use this tool to check if your device (e.g. DoorBird Video Door Station, BirdGuard) has a connected to the Internet (mandatory!). Please enter the data matching to your device. You can find the required data on your "DIGITAL PASSPORT" document.

WIFI MAC address	1CCAE370..
Token	
<input type="button" value="Submit"/>	

The DoorBird's **Wi-Fi MAC** address and **Token** can be located on the **Digital Passport** supplied with the device.

IP Range - Angry IP Scanner

Scan Go to Commands Favorites Tools Help

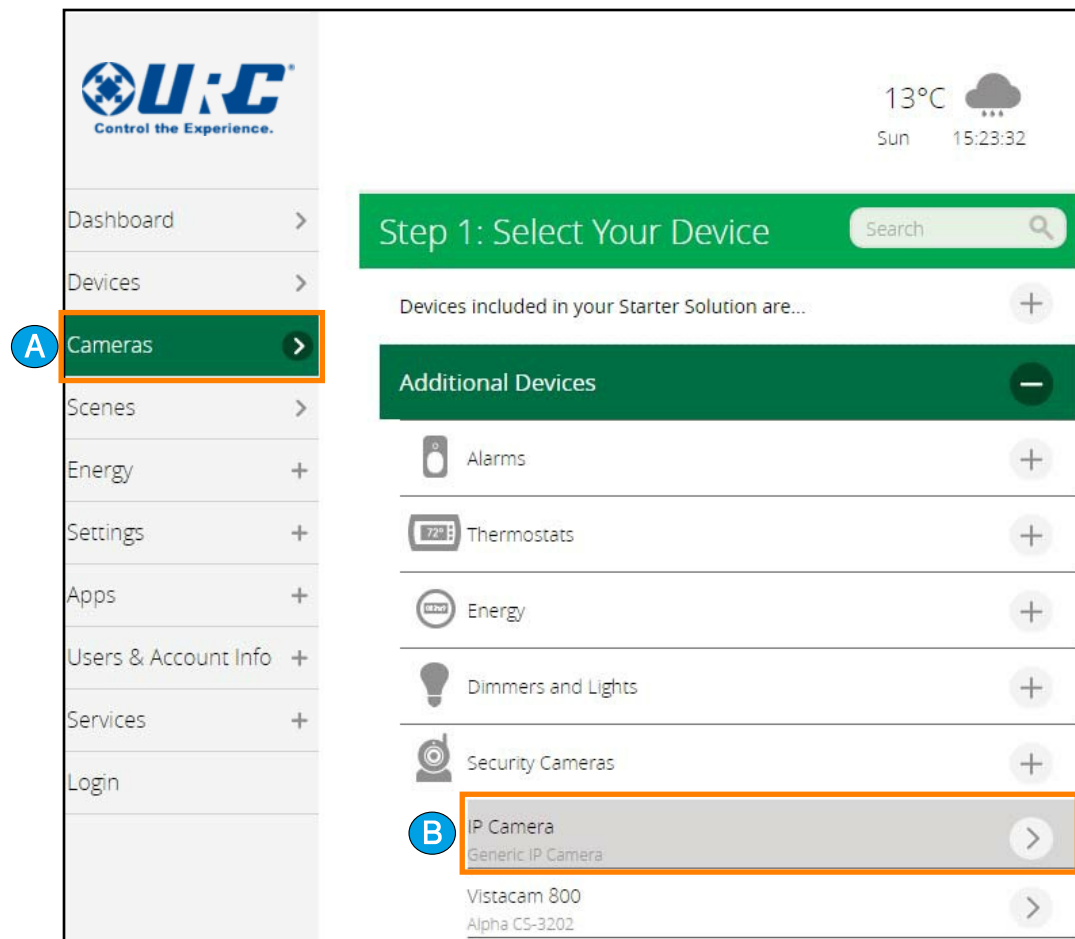
IP Range: 192.168.178.0 to 192.168.178.255 IP Range

Hostname: AVALON IP Netmask Start

IP	Ping	Hostname	Ports [0+]
192.168.178.1	0 ms	[n/a]	[n/s]
192.168.178.2	0 ms	AVALON	[n/s]
192.168.178.3	0 ms	[n/a]	[n/s]
192.168.178.4	0 ms	BHC35-DB6F59	[n/s]
192.168.178.7	1 ms	[n/a]	[n/s]
192.168.178.8	0 ms	[n/a]	[n/s]
192.168.178.10	3 ms	[n/a]	[n/s]
192.168.178.12	2 ms	[n/a]	[n/s]
192.168.178.13	123 ms	[n/a]	[n/s]
192.168.178.14	98 ms	[n/a]	[n/s]
192.168.178.15	20 ms	bha-1CCAE3706860.local	[n/s]
192.168.178.16	18 ms	[n/a]	[n/s]
192.168.178.18	234 ms	[n/a]	[n/s]
192.168.178.20	3 ms	B018842	[n/s]
192.168.178.21	105 ms	[n/a]	[n/s]
192.168.178.249	1 ms	[n/a]	[n/s]

2. Adding the Camera in Z-Wave:

- Open the UI 7 Programming Portal (Z-Wave):
 - a. Select the **Cameras** tab
 - b. Select **Add Camera**



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- Once IP Camera (Generic IP Camera) has been selected, select the **Next** (3x) button until the ZW Gateway attempts to discover the camera automatically.
- Perform the following:
 - Select Manually Install the **Camera (Advanced)**.
 - Choose the item that corresponds to the **IP address** found using the instructions on [page 1](#), for example: 192.168.178.15
 - Scroll down to “**Manual Configuration**” and enter the DoorBird information.

Step 2: Pair Your Device

1 2 3 4

Within 6 minutes, a image will appear within the frame when the pairing is successful.

0:00

A Manually install the camera (advanced)

- Enter the following into the **Camera URL** box:
 http://Username:Password@xxx.xx.xxx/bha-api/image.cgi
 Or
 http://CAMERA IP ADDRESS/bha-api/image.cgi?http-user=username&http-password=password

Step 2: Pair Your Device

Find Your Camera's IP Address on the Network

IP	MAC	Name	Select
192.168.178.21	78:00:9E:FB:F0:5E	N/A	<input type="checkbox"/>
192.168.178.15	1C:CA:E3:70:68:60	N/A	<input checked="" type="checkbox"/>
192.168.178.12	88:F0:77:56:EA:79	N/A	<input type="checkbox"/>

Refresh list

Manual Configuration

Select camera type*

Other IP camera

You are no longer required to fill in the IP address just paste the full URL which returns a JPG file/snapshot in the box below. Example: http://192.168.8.200/snapshot.cgi

Camera URL* **D**

C Camera IP Address*

Camera Username

Camera Password


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- Scroll down to reveal the “**Test Your Camera Configuration**” section.
- **Name Your Camera:**
 - Scroll down and enter a name in the Camera Name section
 - Choose a Room using the available drop-down menu
 - Select **Next** to complete the process

Test Your Camera Configuration

Click Test Button below to confirm your Camera Configuration.
Camera snapshot will appear below within 15 to 60 seconds.



Test

Name Your Camera

Camera Name*

*Required

Select Room for Camera

Room

Hallway

Next

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- Once visible, select your new Camera > Settings > Advanced > Extra Parameters > New Service

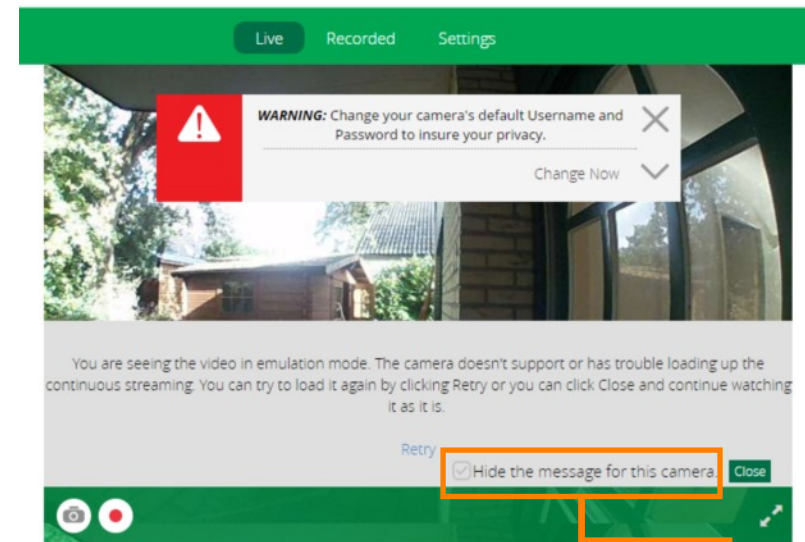
Enter the following to the corresponding fields:


New Service: urn:micasaverde=com:serviceId:Camera2

New Variable: DirectStreamingURL

New Value: /bha-api/video.cgi

- With the fields completed select **"Add"** then **"Reload Engine"**
- Once Engine is reloaded, try the camera (see image at the right)



 Currently **DirectStreamingURL** is not working, check the **"Hide the message for this camera"** box and select close.

Extra Parameters

Live
Recorded
Settings

device #434
Back

Params
Variables
New service
Commands

New service/variable/value

New service:

New variable:

New value:

Reload Engine
Add