DAHUA NVR DRIVER FOR CRESTRON HOME

Revision: 2.01
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MODULE DESCRIPTION

The Dahua NVR module for Crestron Home has been developed to provide an integration solution for Dahua NVRs. This module works with 4-series processors only.

The module presents the Dahua NVR as a generic “Cable Box” in Crestron Home and as such should be configured as a simple video source with a single video output being connected to a video switcher or display video input.

When configuring the module, you may be asked for a channel provider for the cable box – select “None”.

The module provides the following functionality only:

- Allows the user to choose a camera stream to be displayed, using the app’s numeric keypad, or channel up/down
- Display a grid of cameras using the ‘guide’ button

Even though the unit may support additional functionality, this may not be exposed within Crestron Home. Manufacturers should contact Ultamation on support@ultamation.com if they wish additional feature support.

The module can be found under:
Drivers > Cable Box > Dahua

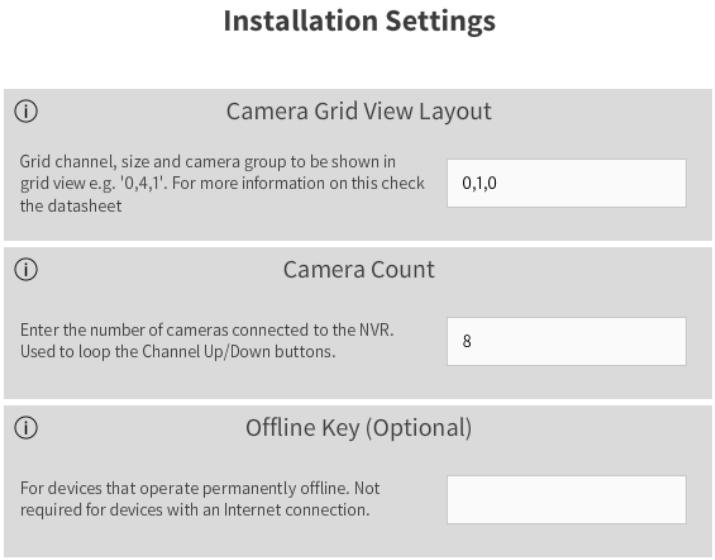
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CONFIGURING THE DRIVER

You will need the following information to use the driver:

- Fixed IP Address of the NVR
- Suitable username and password
- A valid licence for your Crestron Home processor. (Without a valid licence the driver will function for a 1-hour trial period before becoming unresponsive)
- The driver uses Digest Authentication. If your Dahua NVR requests an authentication method, please choose digest.

INSTALLATION SETTINGS



- Camera Grid View Layout – the camera layout to be shown when multiview is selected. Input three integers separated by a comma. Where the first is for the channel Id, the second is the grid size and the third is the camera group to be displayed. Please refer to the device's documentation for suitable values.
    - E.g. input '1,4,1' for display screen 1, a grid size of four (2x2 grid), displaying camera group 1 (cameras 5 to 8). Camera group starts at 0 so input '0,4,0' to display cameras 1 to 4 on display 0. For an input of '2,9,1' this would display a 3x3 grid with cameras 10 to 18 on display 2.
    - Channel Id defaults to 0, but NVRs with multiple outputs should specify the display 1 or 2.
    - Grid size can be: 1, 2, 4, 9, 12, 16, 20, 25, 36, 64, 144 (depending on model and number of cameras).
    - If an invalid value is input there will be a warning in the log and the default value of '0,1,0' will be saved.
- Camera Count – The number of cameras connected to the NVR. This is so the driver can keep track of the current camera when using the Channel Up / Down functions to switch cameras.
- Offline Key (Optional) – The driver is licenced via the cloud, but an optional "offline" key can be requested under special circumstances. Please FIRST refer to the

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"Licensing" section below and then contact support@ultamation.com if you REQUIRE offline activation. The same offline key can be used for multiple driver instances in the same system.

CRESTRON HOME COMMANDS

- Single View – Navigate to Dahua in the Crestron Home app. Select the Keypad and input the camera number you want to view. That camera will be shown on the selected display
- Multiview – To view a grid of cameras, navigate to Dahua in the Crestron Home app. Select 'Remote' then press the 'Guide' button. This will display the grid layout that was set in the installation settings above.

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SUPPORT

If you have any issues with an integration solution please let us know by contacting Ultamation support on support@ultamation.com and please include as much detail about your issue as possible, such a recent processor error log.

Licence verification messages are posted to the error log, so please ensure you have checked this.

LICENCING

This integration solution (including software, images and all other associated assets distributed as part of the purchased download package) is licenced on a PER PROCESSOR basis.

A purchase should not be completed without correct information as refunds cannot be issued for errors or changes made to details following purchase.

This is an electronic product and there is no physical delivery.

The integration solution is provided without any warranty with respect to the reliability of the controlled device or changes to device protocol. We will endeavour, through best efforts, to maintain the integration solution's functionality and any bug fixes will be provided free-of-charge. Additional functionality may be released as a variation of this integration solution and this will be a separate, purchasable, product.

CLOUD LICENCE

This integration solution contacts Ultamation's licencing server at startup. If the server finds a matching licence for the integration solution and processor then the integration solution will be licenced. Otherwise, the integration solution will check the offline licence key. If you purchase a licence **after** you have loaded the integration solution, please reboot the system to see changes take effect.

If you purchased a licence **before** it was migrated to the cloud service, i.e. you have a licence key already, you must enter this into the **Offline Key** user attribute. If you purchased the integration solution **after** it was migrated, and you don't have a licence key, no further action is required.

If no licence exists for the product/processor the integration solution will enter a short trial period (ONE HOUR) to allow for verification of correct control or evaluation.

To request an OFFLINE key, please contact support@ultamation.com with your order details and a brief explanation why you REQUIRE offline activation. Ultamation reserve the right to refuse offline activation.

NOTE: Once an offline key has been issued no further licence changes will be granted. Moving the integration solution to a new processor will require an additional licence purchase.

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