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## IP to IR Command Converter for Velocity Control System
AT-VCC-IR3-KIT



The Atlona AT-VCC-IR3-KIT is an accessory for the Atlona Velocity™ Control System that provides conversion from IP control commands to IR. This Velocity Control Converter is very compact and can be placed anywhere a device requires IR control. The VCC-IR3-KIT is remotely powered through Power over Ethernet (PoE), or locally from a USB power source. The primary unit installs onto any surface via a convenient mounting dock. A simple "click" locks it into place for a secure, reliable installation. The IR adapter module includes three IR emitters attached by a 3.5mm cable. Each emitter is independently addressable, allowing discrete IR control of three different AV devices.

### Package Contents

1 x AT-VCC
1 x AT-VCC-IR3

### Operating Notes

- The AT-VCC-IR3-KIT is PoE, to power the unit, simply plug it into a PoE compatible network switch. If the network switch is not PoE capable, a PoE injector (purchased separately) or USB can be used.

- All devices (AT-VCC, Velocity, AT-VTP, switchers, etc) should be set to static IPs or the DHCP IP address reserved for each individual device.

⚠ **IMPORTANT**: Velocity Gateway (AT-VGW-HW) must be set up before the AT-VCC-IR3-KIT is fully functional.

## Panel Description
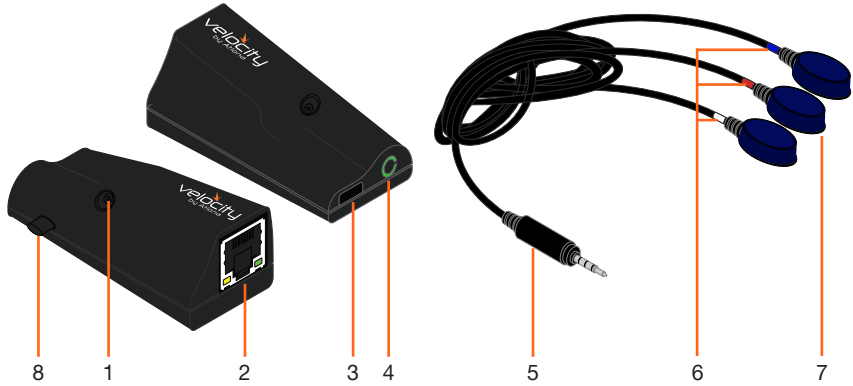


**1    IR Window**
Use to learn IR commands from a device's IR remote control.

**2    Ethernet**
Connect an Ethernet cable from this port to the same network as the Velocity Gateway.

**3    USB**
Can be used to power the VCC when PoE is unavailable. Requires 5V DC @ 250mA (not supplied).

**4    3.5mm Port**
Connect the included VCC-IR3 into this port.

**5    3.5mm Connector**
Connect the 3.5mm connector to the 3.5mm port of the VCC.

**6    3 x IR Emitters**
Connect the 3.5mm connector to the 3.5mm port

**7    IR Bands**
Colored bands provide a way to differentiate which emitter goes to which control signal. White is control port 1, red is control port 2, and blue is control port 3.

**8    Factory Reset Button**
Press and hold this button to reset all settings to the factory default.

## IP

The AT-VCC is set to DHCP by default. If the network does not support DHCP, it will automatically set the AT-VCC to the static IP of 192.168.1.70 after 30 seconds.

## VHelp and webGUI

Velocity will find the VCC when scan network is used, but if the VCC needs to be set up off site first, the software VHelp can be used.

1    Connect the IR three emitter cable into the 3.5mm port on the unit.

2    Connect the AT-VCC to a network switch (PoE is best if a PoE switch is not available, a power injector or mini USB to USB cable may be used).

3    Download VHelp from the resource tab of https://atlona.com/product/AT-VCC-IR3-KIT.

4    Unzip the file to the local PC

5    Double-click the VHelp executable to open the program. Vhelp will start discovery as soon as the program is opened.

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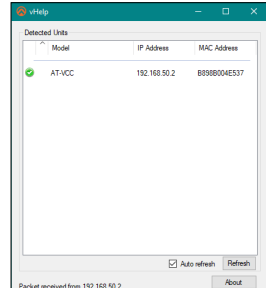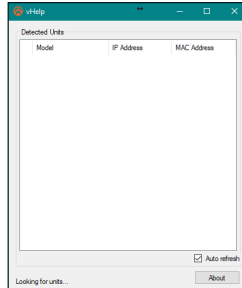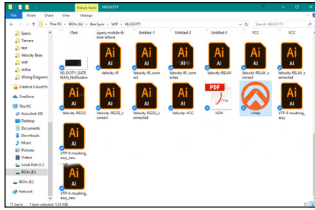


6    Double click on the VCC (to determine the correct one, look on the bottom of the VCC for the MAC address). The PC default browser will open to the AT-VCC webGUI.
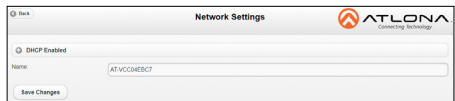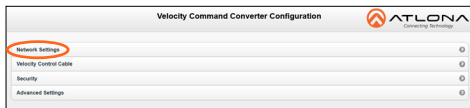


7    Select Network Settings to open the IP configuration page.

8    Select the DHCP Enabled header, this will disable DHCP and allows IP settings to be edited.
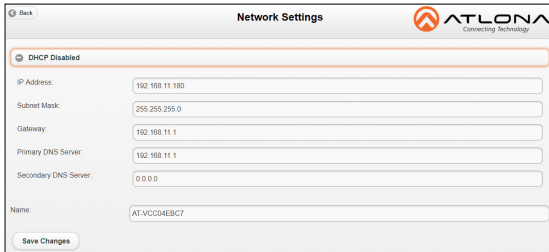


9    Type in the IP details to match the network details of the Gateway. e.g. If the Velocity gateway is located at the IP of 192.168.12.15, then the VCC should be set to an IP within the 192.168.12.XXX range that has not already been used.

10    Press the Save Changes button.

**NOTE:** Connecting the VCC to Velocity can only be done once Velocity has been set up. View the Velocity Manual for instructions.

11    Open any browser on the network and type in the IP address of Velocity.

12    Log in and select the ≡ button from the top left corner and select **Control**.

13    More options will appear. Select **All Rooms**. A new screen will open.

14    Select the Edit Room Technology button on the room tile. The Modify Technology screen will open.
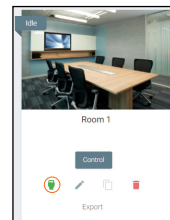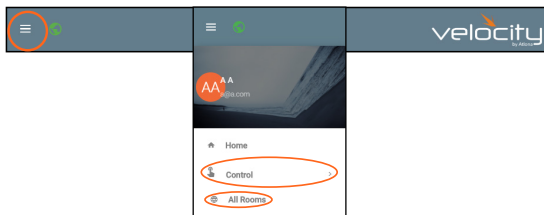
15    Select the + button located at the top right corner of the room. A new menu will open.
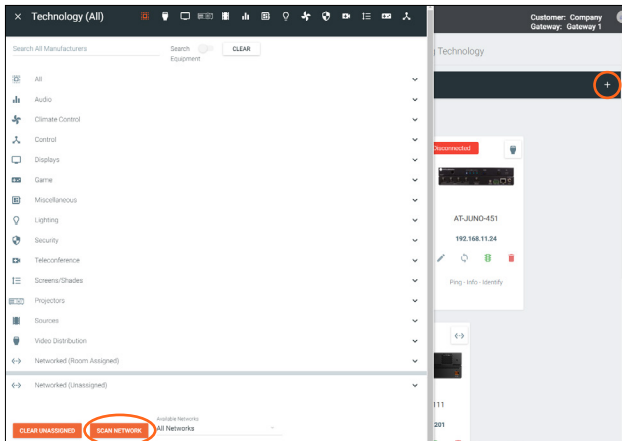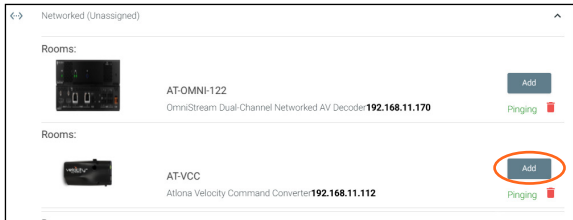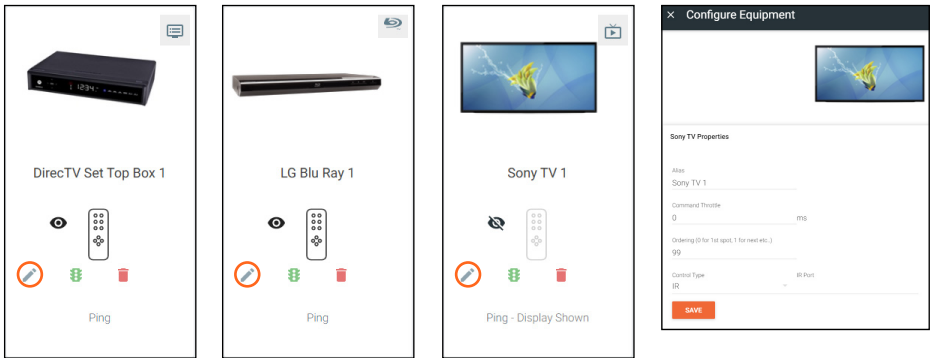


16    Press the scan network button. All Atlona devices found will appear in the unassigned list.

17    Select the Add button next to the VCC. A new pop up will appear.



18    Select the **VCC IR Triport** (based on device/function) from the drop down menu.

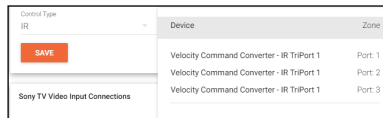19    Press the **ADD VCC TO ROOM** button. A VCC tile will appear in the room.
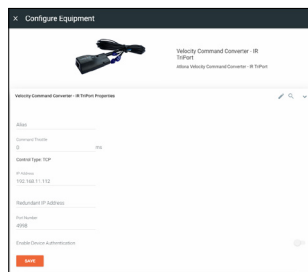
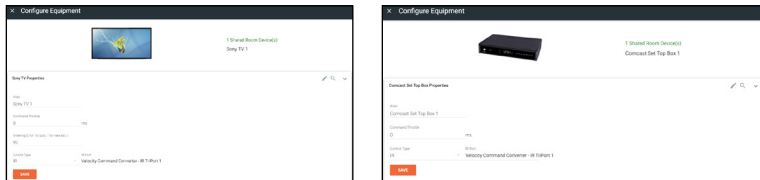20  Select edit on the controlled device's tile. A new window will slide open.

DirecTV Set Top Box 1

Ping

LG Blu Ray 1

Ping

Sony TV 1

Ping - Display Shown

× Configure Equipment

Sony TV Properties

Alias
Sony TV 1

Command Throttle
0                                    ms

Ordering (0 for 1st spot, 1 for next etc..)
99

Control Type                    IR Port
IR

SAVE

21  *Optional* If the device has multiple Control Types, select **IR** from the Control Type drop
down menu.

22  Select the VCC from the IR Port drop down menu.

| Control Type | Device | Zone |
|---|---|---|
| IR | | |
| SAVE | Velocity Command Converter - IR TriPort 1 | Port: 1 |
| | Velocity Command Converter - IR TriPort 1 | Port: 2 |
| Sony TV Video Input Connections | Velocity Command Converter - IR TriPort 1 | Port: 3 |

23  *Optional* Repeat for up to three devices when using the VCC triport.

× Configure Equipment

1 Shared Room Device(s)
Sony TV 1

Sony TV Properties

Alias
Sony TV 1

Command Throttle
0                     ms

Ordering (0 for 1st spot, 1 for next etc..)
99

Control Type          IR Port
IR          Velocity Command Converter - IR TriPort 1

SAVE

× Configure Equipment

1 Shared Room Device(s)
Comcast Set Top Box 1

Comcast Set Top Box Properties

Alias
Comcast Set Top Box 1

Command Throttle
0                     ms

Control Type          IR Port
IR          Velocity Command Converter - IR TriPort 1

SAVE

The VCC is ready to use and will pass any commands triggered from the control screen.

## IR Learning

The VCC IR has the ability to learn IR codes from a device's IR remote. Create equipment with IR control easier and without manually entering a list of IR command using the IR remote control with the VCC IR.

1   Open the Equipment List using the left ≡ navigation. A new screen will open.

2   Create a device to be added to the room. A new screen will open.

    a   Select the + button at the bottom of the page to create a new device.

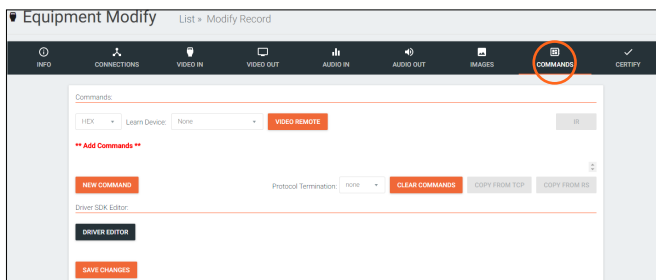    b   Search for and duplicate an existing similar driver to be edited.
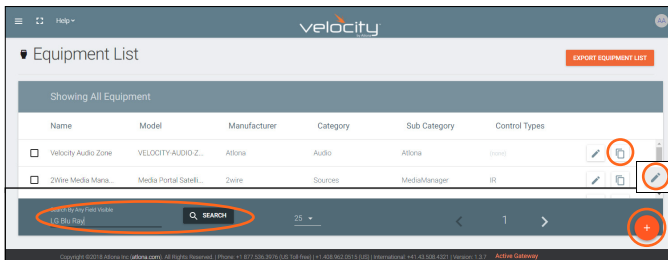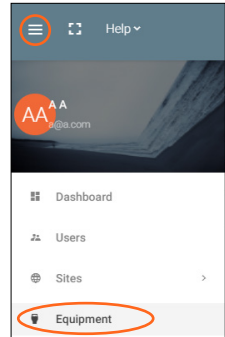


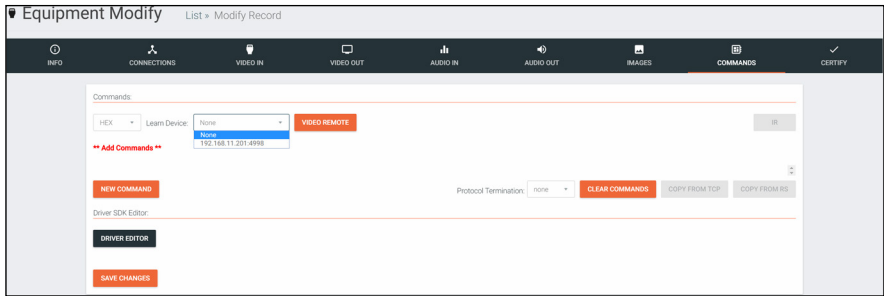3   Fill in the device information (e.g. Name, manufacturer, etc).

    **NOTE:** If creating a new device the other tabs will need to be filled. Follow the directions within the Equipment section of the Velocity manual.
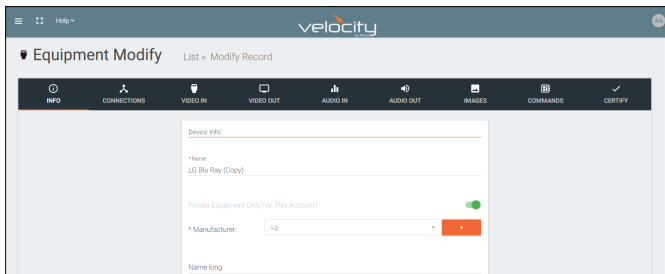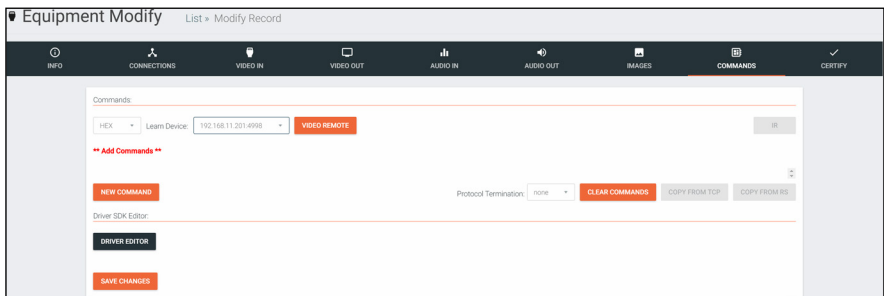


4   Select the commands tab from the top navigation.
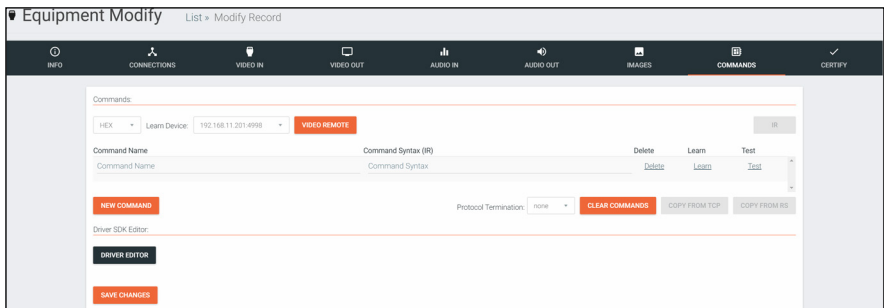
5     Select the IP of the VCC IR from the Learn Device drop down menu.
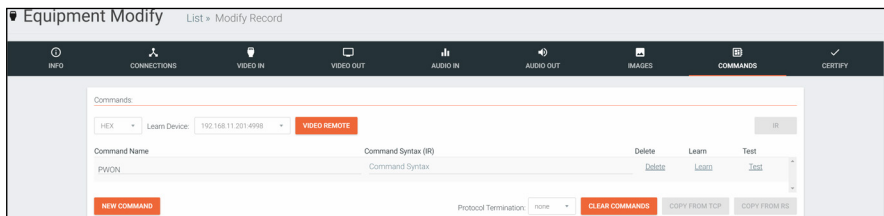


6     Press the NEW COMMAND button. A new line will appear above the button.

> **NOTE:** If a device was duplicated, remove all the previous commands using the delete link.



7     Fill in the command name of the button to be learned.

8   Select the learn link. An information pop up will appear. Press OK.

> **Information**
>
> Do not press and hold the remote button to learn. Quick remote button taps are more effective in learning IR commands.
>
> OK

9   Point the device's IR remote at the IR learn window located halfway down the VCC and press the button to be learned.

**NOTE:** Use quick button presses to learn, do not hold the button down.

10   When the command is successfully learned, a pop up will appear with the learned IR command.

    a   Press **ACCEPT** to return to the commands.

    b   If there is an IR Emitter connected, press **TEST IR** to broadcast the command to the device to verify the command works. Press **ACCEPT** once done testing.

> **IR Learning Result**
>
> The command Butter was successfully read by the IR reciever with the command:
>
> sendir,1:1,16,38004,1,1,342,170,22,21,22,21,22,64,22,21,22,21,22,21,22,64,22,21,22,64,22,64,22,21,22, 64,22,64,22,64,22,21,22,64,22,64,22,21,22,64,22,64,22,21,22,21,22,21,22,21,22,21,22,64,22,21,2 2,21,22,64,22,64,22,64,22,1487,342,85,22,3630,342,85,22,3800
>
> Please click learn again on another command to learn another
>
> TEST IR   ACCEPT

11   The command will appear in the Command Syntax field. Repeat the IR learn process until all needed commands are learned.



12   Press the save changes button.

## Security

Security options have been provided with the VCCs, to set between web UI, API, and system lock.



- Select **Security** from web UI menu. A new page will open.



- To protect the web UI from being altered, a username and password can be set, once a username and password has been set, select the **Save Changes** button to enable login.

- To lock the configuration of the VCC, select **API lock** (after setting a username and password) and press the **Save Changes** button. With the API lock set, no configuration changes can be made through TCP commands and must be changed through the web UI.

- System Lock should not be used unless all configuration and routing has been set and will not need to be changed. Once **System Lock** has been selected and the **Save Changes** button pressed, no device changes can be made unless the unit is factory reset through the button on the side of the VCC.

## Advanced Settings

If needed, the system can be rebooted or reset from the Advanced Settings page. Select it from the home page menu.



- Reboot - Use this button to restart the unit.
- Factory Reset - Use this to set everything back to default settings. This will reset the unit to DHCP, which may cause the IP to change and the unit to need to be rediscovered.
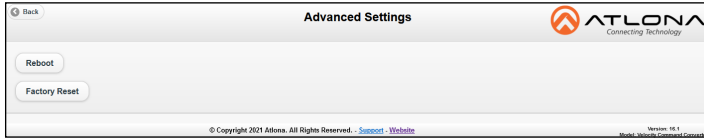
## Firmware Update

To update the VCC the most recent vHelp software will be needed. The vHelp has the firmware built into the software and will automatically detect if the VCC is on the most recent firmware.

1    Connect the AT-VCC to a network switch (PoE is best if a PoE switch is not available, a power injector or mini USB to USB cable may be used).

2    Download VHelp from the resource tab of https://atlona.com/product/AT-VCC-IR3-KIT.

3    Unzip the file to the local PC

4    Double-click the VHelp executable to open the program. Vhelp will start discovery as soon as the program is opened.

5    Once the unit is found, if it is out of date an exclamation mark will display next to it. Right click to open the drop down menu.

6    Select Update from the drop down list. A new pop up will appear.
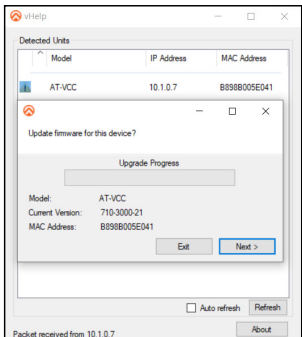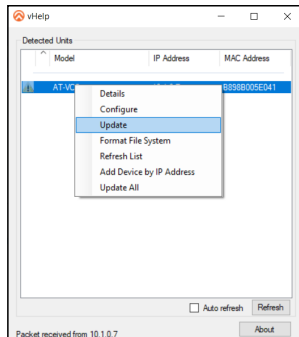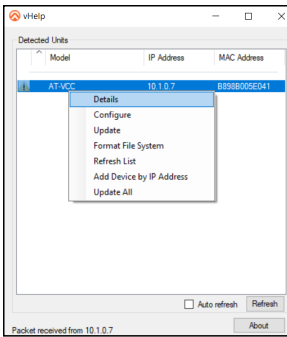
7    Press the Next button to start the update. The progress bar will cycle through green. This process can take up to 2 minutes.

8    Once the update is complete, press Exit. The unit will now show a green check mark next to it to show the unit is up to date.
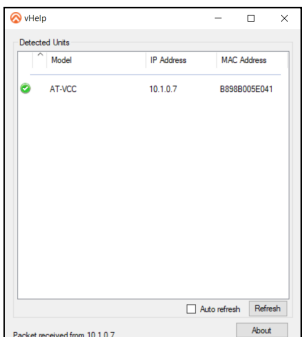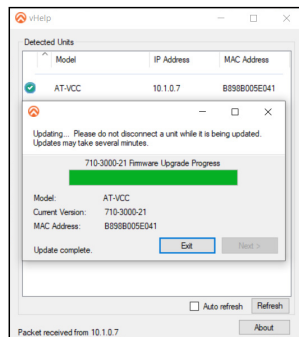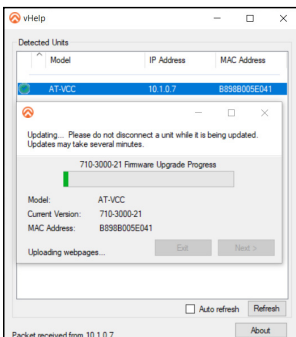
Version 6

## Warranty

To view the product warranty, use the following link or QR code:

https://atlona.com/warranty/.

## English Declaration of Conformity

The English version can be found under the resources tab at:

https://atlona.com/product/at-vcc-ir3-kit/.

## Chinese Declaration of Conformity 中国RoHS合格声明

由SKU列出於:

https://atlona.com/about-us/china-rohs/.

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