

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<sup>™</sup> 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-IB3

# **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.



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Panel Description

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# 8 1 1 IR Window

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

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#### 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

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Connect the 3.5mm connector to the 3.5mm port of the VCC.

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### 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.



AT-VCC-IR3-KIT

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Detec	ted Units			
	Model	IP Address	MAC Addre	68
0	AT-VCC	192.168.50.2	B898B004E	537
		Ø A	to refresh F	lefre

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.

	Velocity Command Converter Configuration		() flack	Network Settings	
Hetwork Settings Webcity Centrol Cable Beculty Advanced Settings		0 0 0	OHCP Enabled Nome: Save Changes	AT VCCMEBC7	

- 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.

) Back	Network Settings	
DHCP Disabled		
IP Address.	192.168.11.180	
Subnet Mask:	255.255.255.0	
Gateway	(192.168.11.1	
Primary DNS Server.	(192.168.11.1	
Secondary DNS Server:	0.0.0	
lame:	AT-VCC04EBC7	

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  $\equiv$  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.





- 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.

<···>	Networked (Unassigned)		^	Select your VCC Model
	Rooms:	AT-OMNI-122 OrmoStream Dask-Channel Networked AV Decoder 192, 168, 11, 170	Add	Soliest Made         -           Guidet         Addr voc 10 account
	Rooms:	AT-VCC	Add	Select your VCC Model
		Ationa Velocity Command Converter 192.168.11.112	Pinging	VCC Renal Sension CLOSE ADD VCC TO ROOM

- 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.

× Configure Equipme	nt		
	-	Velocity Command Converter - IR TriPort Jatura Weolty Converter - It TriPort	
Velocity Command Converter - IR TriP	ort Properties		19 -
Alles			
Command Thostle 0	75		
Control Type: TCP			
#Address 192.168.11.112			
Redundant IP Address			
Port Number 4918			
Enable Device Authentication			
SAVE			



20 Select edit on the controlled device's tile. A new window will slide open.

E = 1 (991	6		× Configure Equipment
DirecTV Set Top Box 1	LG Blu Ray 1	Sony TV 1	Boy 11 Projectics           Asian           Somy 11 1           Conneword Threater           0         m0           Datameng threater (1, to reade)
Ping	Ping	Ping - Display Shown	99 Consultype Binut R +

- 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 IR ~	Device	Zone
SAVE	Velocity Command Converter - IR TriPort 1 Velocity Command Converter - IR TriPort 1	Port: 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.



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.

		velocit	y.			
Equipment Modify	List » Modify Record					
CONNECTIONS	VIDEO IN VIDEO OUT	<b>ili</b> Audio in	() Tuo gidua	IMAGES	COMMANDS	CERTIFY
	Device Info:					
	* Name LG Blu Ray (Copy)					
	* Manufacturer: Lg		×	+		
	Name long					

4 Select the commands tab from the top navigation.

Equipr	nent Modify	List » Moo	ify Record					
() INFO	CONNECTIONS	VIDEO IN	VIDEO OUT	i <b>li</b> Audio in	AUDIO OUT		COMMANDS	CERTIFY
	Commands							
	HDX + Learn Device:	None	VIDEO RE	моте			IR	
	** Add Commands **							
	NEW COMMAND		Protocol 1	ermination: none	CLEAR COMMANDS	COPY FROM TCP	COPY FROM RS	
	Driver SDK Editor							
	DRIVER EDITOR							
	SAVE CHANGES							



AT-VCC-IR3-KIT

Equipment Modify List » Modify Record • di . ..... CLEAR COMMANDS COPY FROM TCP CO 5 Select the IP of the VCC IR from the Learn Device drop down menu. Equipment Modify List » Modify Record \* Learn Device: 192.168.11.201:4998 \* VIDEO REMOTE IVER EDITOR 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.

() INFO	CONNECTIONS	VIDEO IN	VIDEO OUT	III AUDIO IN	AUDIO OUT	IMAGES	[ сомі	III MANDS	CERTIF
	ommands:								
	HEX * Learn Device: 192.168	11.201:4998 • VIDEO	REMOTE					IR	
c	ommand Name		Command Syntax	(IR)		Delete	Learn	Test	
	Command Name		Command Synta	IX.		Delete	Leam	Test	
								*	
	NEW COMMAND			Protocol Termination	CLEAR C	COMMANDS COF	Y FROM TCP	COPY FROM RS	
P	river SDK Editor:								
	DRIVER EDITOR								

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

(i) INFO		UIDEO IN	VIDEO OUT	<b>ili</b> Audio in	AUDIO OUT	IMAGES	cor	IMANDS	CERTI
	Commands:								
	HEX * Learn Device: 19	92.168.11.201.4998 *	VIDEO REMOTE					IR	
	Command Name		Command S	Syntax (IR)		Delete	Learn	Test	
	PWON		Comman	d Syntax		Delete	Learn	Test	



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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.

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.



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

() INFO		VIDEO IN	VIDEO OUT	<b>ili</b> Audio in	N AUDIO OUT	IMAGES	COMMAND	s	CERTIFY
	Commands:								
	HEX • Learn Device:	192.168.11.242.4998	VIDEO REMOTI	E				IR	
	Command Name		Command Sy 1.21.21.64.21	ntax (IR) .64.21.21.21.64.21.16	32.172.172.21.21.21.3703	Delete Delete	Learn Test	<u>.</u> ^	
								×	
	NEW COMMAND		Protocol Termin	nation: none *	CLEAR COMMANDS	COPY FROM			
	DRIVER EDITOR								
	SAVE CHANGES								

12 Press the save changes button.



# Security

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

	Velocity Command Converter Configuration	
	Network Settings	٥
	Velocity Control Cable	0
¢	Security	0
	Advanced Settings	0

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

G Back	Security		
User Name:			
Password:			
API Lock			
System Lock		Г	
Save Changes			API Lock
			System Lock
	© Copyright 2021 Ationa, All Rights Reserved Support - Website	Version: 16. Model: Velocity Commany	
			Save Changes

- 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.



### AT-VCC-IR3-KIT

# **Advanced Settings**

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

	Velocity Command Converter Configuration	
Network Settings		0
Velocity Control Cable		0
Security		0
Advanced Settings		0

- 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.

G Back	Advanced Settings	
Reboot Factory Reset		
	© Copyright 2021 Ations. All Rights Reserved <u>Support</u> - <u>Website</u>	Version: 16.1 Model: Velocity Command Conventer



### 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 <a href="https://atlona.com/product/AT-VCC-IR3-KIT">https://atlona.com/product/AT-VCC-IR3-KIT</a>.
- 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.

🛇 vHelp – 🗆 X	🗞 vHelp – 🗆 X	- 🗆 ×
Detected Units	Detected Units	
Model IP Address MAC Address	Model     IP Address     MAC Address     Model     IP Address	MAC Address
AT-VCC 10.1.0.7 B898B005E041	AT-VCC 10.1.0.7 B899B005E041 O AT-VCC 10.1.0.7	B898B005E041
	📀 – 🗆 X	
Updating Please do not disconnect a unit while it is being updated. Updates may take several minutes.	Updating Please do not disconnect a unit while it is being updated. Updates may take several minutes.	
710-3000-21 Firmware Upgrade Progress	710-3000-21 Firmware Upgrade Progress	
Model: AT-VCC	Model: AT-VCC	
Current Version: 710-3000-21	Current Version: 710-3000-21 M&C Address: B998005E041	
MAC Address: B830B005E041 Uploading webpages Exit Next >	Update complete. Est Next >	
Auto refresh Refresh	Auto refresh Refresh Auto	refresh Refresh
Packet received from 10.1.0.7 About	Packet received from 10.1.0.7 About Packet received from 10.1.0.7	About



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# 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

a **PANDUIT** company

由SKU列出於: https://atlona.com/about-us/china-rohs/.



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