BLUSTREA HDMI In-Line IP 0 ○ ○ Ů HDMI OUT	Control Module	OFF LEARN		3 2 1 0 0 1 EDID	UPGRADE
	HDMI OUT	TX (RX) SENSE-552 SENSE-55	2-RELAYS-1 2-RELAYS-1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	H TCP/IP	D11CTRL-V2





RevA2_HD11CTRL-V2_User_Manual

Thank you for purchasing this product.

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

A	

Surge protection device recommended.

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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Introduction

Our HD11CTRL-V2 HDMI in-line controller is an automated room control solution including display on / off control via CEC, RS-232, IR or IP when a HDMI signal is sensed on the input. External relay inputs allow third party triggers for integration with devices such as sensors or switches.

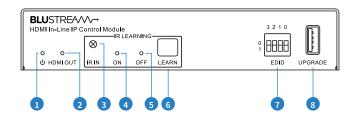
The HD11CTRL-V2 will also help with HDMI compatibility, HDCP 2.2, clock stretching, EDID and handshaking issues that can cause problems when distributing HDMI signals, especially 4K. The HD11CTRL-V2 supports full HDMI 2.0 and HDCP 2.2, with video resolutions up to and including 4K @ 60Hz 4:4:4, and features a web-GUI for control and configuration.

FEATURES:

- Automated in-line HDMI control module supporting up to 10 macros, with up to 10 command functions per macro
- Supports HDMI 2.0 18Gbps specification including HDR
- Supports resolutions up to 4K UHD 60Hz 4:4:4
- Supports all known HDMI audio formats including Dolby TrueHD, Atmos and DTS-HD Master Audio transmission
- Features Smart-Scale technology to convert 4K input signal to 1080p output (Note: 4:2:2 colour space not supported)
- Can help to solve most HDMI EDID, HDCP, compatibility, and handshaking issues
- Automatic display control via CEC, RS-232, IR or IP
- IR learning up to 30 IR commands
- Relay control for interface to third party devices such as projector screens
- Signal sense input for connection from third party devices such as sensors or switches
- HDCP 2.2 compliant with advanced EDID management
- In-built web-GUI for configuration and control

Front Panel

Rear Panel



- Power LED Indicator Illuminates when the device is powered
- 2 HDMI Output LED Indicator Illuminates when the device has an active connection to a display
- 3 IR Learning IR In IR receiver used for learning IR commands to be used with auto on / off trigger
- IR Learning IR On LED Flashes blue when device is in IR learning mode refer to User Manual for IR learning function
- S IR Learning IR Off LED Flashes blue when device is in IR learning mode refer to User Manual for IR learning function
- 6 IR Learning Learn Button Press to enable IR learning mode refer to User Manual for IR learning function
- IDID DIP Switches Adjust the EDID setting for the source input refer to the EDID management dip switch table
- USB Upgrade Port USB connector used for firmware upgrades

- 1 HDMI Input Connect to HDMI source device
- 2 HDMI Output Connect to HDMI display device (supports CEC)
- 3 IR Output 3.5mm mono jack provides IR output to a device
- Signal Sense Input (12V) 3 pin Phoenix connector to connect to external sensor or switch
- 6 Relay 1 ~ 2 3-pin Phoenix connector to allow relay control of a device such as a projector screen
- **6** TCP/IP RJ45 connector for TCP/IP and web-GUI control of the Matrix
- Power Port Use included 12V/1A DC adaptor to power the device
- 8 RS-232 Serial Port 3-pin Phoenix connector for control of device by third party control system

EDID Management Dip-switches

EDID (Extended Display Identification Data) is a data structure that is used between a display and a source. This data is used by the source to find out what audio and video resolutions are supported by the display then from this information the source will determine what the best resolution is to output.

To change the EDID settings, move the EDID dip-switches as required on the front panel of the unit. Please see table below for settings.

The Software EDID preset allows EDID selection via the devices web GUI, or for a custom EDID to be loaded into the HD11CTRL-V2. This is used for sources that may output non-standard resolutions or video formats.

	3210	
0	AAAA	
1	EDID	

3	2	1	0	
Combi	ination o	f DIP pos	sitions	EDID Type
0	0	0	0	1080p 60Hz 2.0ch
0	0	0	1	1080p 60Hz 5.1ch
0	0	1	0	1080p 60Hz 7.1ch
0	0	1	1	1080i 60Hz 2.0ch
0	1	0	0	1080i 60Hz 5.1ch
0	1	0	1	1080i 60Hz 7.1ch
0	1	1	0	4K 60Hz 4:2:0 2.0ch
0	1	1	1	4K 60Hz 4:2:0 5.1ch
1	0	0	0	4K 60Hz 4:2:0 7.1ch
1	0	0	1	4K 60Hz 4:4:4 2.0ch
1	0	1	0	4K 60Hz 4:4:4 5.1ch
1	0	1	1	4K 60Hz 4:4:4 7.1ch
1	1	0	0	DVI 1920x1080@60Hz
1	1	0	1	DVI 1920x1200@60Hz
1	1	1	0	EDID Pass-through
1	1	1	1	Software Management

Automatic System On / Off Control

The HD11CTRL-V2 is designed to automate basic control of AV equipment within a room without the need for a 3rd party control system. It can control devices via CEC, RS-232, IR, relay and signal sense. Its key function is to turn the system on when a HDMI signal is sensed, and turn it off when that signal is lost.

Configuration of this functionality can be completed via RS-232 - see pages 6-7 for RS-232 information.

System On:

When the controller detects video signal (via TMDS or 5V) or the signal sense input is triggered, the system will start and automatically perform the following actions at the same time:

- Send CEC Power On command (enabled by default), then fixed delay, then send user defined CEC input command once configured via RS-232.
- Send RS-232 On Command, then delay (between 1~180s, default 3s), then send user defined RS-232 command once configured via RS-232.
- Send IR On Command, then delay (between 1~180s, default 3s), then send user defined IR commands. IR commands must be learnt in to enable this function. Refer to IR learning on the following page.
- Toggle the state of relay 1 for a predetermined time (enabled by default, between 3~180s, default 10s).

Note when setting video signal trigger to TMDS or 5V, please ensure the System On and System Off settings match or the feature may not operate correctly.

System Off:

When the controller detects the video signal is lost, and does not receive a signal sense trigger within the delay time (between 5~180mins, default 10mins), the system will turn off and automatically perform the following actions:

- Send CEC Power Off command (enabled by default).
- Send RS-232 Off Command, then delay (between 1~180s, default 3s), then repeat the command once configured via RS-232.
- Send IR Off Command, then delay (between 1~180s, default 3s), then repeat the command. IR commands must be learnt in to enable this function. Refer to IR learning on the following page.
- Toggle the state of relay 2 for a predetermined time (enabled by default, between 3~180s, default 10s)

CEC Control:

By default, CEC Power On and Off is enabled (subject to display device compatibility). The CEC functionality can be enabled or disabled via RS-232. It is also possible to send other CEC commands such as input selection as well as volume up or down. Please see the RS-232 command list at the end of this document for a full list of CEC commands available. Note CEC is subject to the support of the display connected to the HD11CTRL-V2.

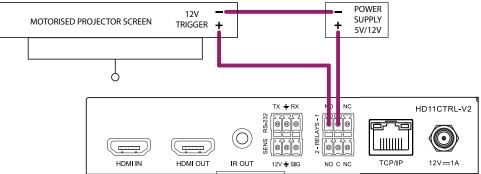
Relay Control:

The HD11CTRL-V2 features two relays. Relay 1 is triggered during System On, Relay 2 is triggered during System Off as follows:

System On: Relay 1 NO closes and NC opens. After the delay time, NO opens and NC closes.

System Off: Relay 2 NO opens and NC closes. After the delay time, NO closes and NC opens.

The time for which the relay stays open can be adjusted via RS-232. To use the relay control as a 5V/12V trigger, set the delay to time "00" which will result in 'NO' remaining as an open circuit whilst a video signal is present. An example wiring diagram is as follows:



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IR Learning

The HD11CTRL-V2 can send out up to 5 IR commands automatically when a signal is sensed or lost. These commands are learnt into the product via the following procedure:

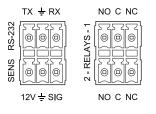
1) Press the "Learn" button to scroll through the 5 x IR commands in which custom IR commands can be learnt. The LED's will indicate what position is selected as follows:

COMMAND /	LE	D
POSITION	ON	OFF
Display On	Illuminated	Off
Input Select	Flashing	Off
Display Off	Off	Illuminated
User Command 1	Off	Flashing
User Command 2	Flasing	Flashing

- 2) Point the IR remote control at the IR In sensor and press the respective button on the IR remote control.
- 3) Both LEDs will remain illuminated to indicate that an IR command has been learnt.
- 4) The IR Learning mode will end after 10 seconds of inactivity and both LED's will turn off.

Signal Sensing

The HD11CTRL-V2 also has the ability to be triggered via signal sense from a device feeding it a voltage such as a PIR sensor. The sensor port features +12V DC and ground to power a PIR sensor, as well as a signal input that triggers when the circuit is closed or grounded. Please note the max +12V DC output is 50mA.



Smart Scale

The HD11CTRL-V2 features Smart Scale technology where by a 4K signal can be down-scaled to 1080p for compatibility with 1080p displays. Downscaling is automatic based on the EDID of the display connected. This feature can be enabled (default) or disabled via RS-232. The downscaling functionality is shown below:

#	RESOLUTION	INPUT SIGNAL REFRESH	COLOUR SPACE	OUTPUT RESOLUTION
1	3840 x 2160	60Hz	4:4:4	1080p@60Hz 4:4:4
2	3840 x 2160	30Hz	4:4:4	1080p@30Hz 4:4:4
3	3840 x 2160	24Hz	4:4:4	1080p@24Hz 4:4:4
4	3840 x 2160	60Hz	4:2:0	1080p@60Hz 4:2:0
5	3840 x 2160	30Hz	4:2:0	1080p@30Hz 4:2:0
6	3840 x 2160	24Hz	4:2:0	1080p@24Hz 4:2:0
7	3840 x 2160	60Hz	4:2:2	Not supported
8	3840 x 2160	30Hz	4:2:2	Not supported
9	3840 x 2160	24Hz	4:2:2	Not supported

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Web-GUI Control

This following pages take you through the operation of the HD11CTRL-V2's Web-GUI. You must connect the TCP/IP RJ45 socket to your local network in order to access the products Web-GUI.

By default the HD11CTRL-V2 is set to DHCP, however if a DHCP server (eg: network router) is not installed the IP address will revert to below details:

Default IP Address is: 192.168.0.200Default Username is: blustreamDefault Password is: 1234

* Please note: Due to new UK cyber security requirements, the default password has been updated for the below

firmware versions (and above) to default password: @Bls1234

HD11CTRL-V2: firmware version: V1.3.0 onwards

New password regulations requires new passwords being set for products to be a minimum of **8 characters** and contain a minimum of: **1x uppercase letter**, **1x lowercase letter**, **1x symbol and 1x number**.

Login Page

The Login Page allows a user or admin to login and access additional functionality. This page also shows you the current firmware version of both the matrix and web GUI.

Control	Login		
		BLUSTR E AVV	∕>
		Username Please Enter	
		Password	
		Please Enter	
		Login	
		HD11CTRL-V2 GUI;V12.0 Firmware V12.0	

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Guest Control Page

The Guest Control Page allows a guest to recall pre-defined macros that have been configured. Simply select the square that corresponds with the macro you wish to recall.

Control	Login						
		Macro 1 Macro 1	Macro 2 Macro 2	Macro 3 Macro 3	Macro 4 Macro 4	Macro 5 Macro 5	
		Macro 6 Macro 6	Macro 7 Macro 7	Macro 8 Macro 8	Macro 9 Macro 9	Macro 10 Macro 10	
BLUSTR				HD11CTRL-V2			Log Out

Configuration Page

The Configuration Page allows a user to see the status of the relays as well as enable or disable the front panel hard keys, enable or disable the automtic output image scaler, as well as set the EDID for the HDMI input.

Control	Configuration	IR	CEC	RS-232 Test	Macros	Network	Upgrade	Diagnostics	Admin
			Relay 1 Stati	US OPEN	Relay 2 Stat	us OPEN			
			Key Control 🛛	Scal					
			HDMI Input EDID	DID pass-through(Copy from	Sink 1)				
BLUSTR	2:5/√//→			HD110	TRL-V2				Log Out

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Infrared (IR) Page

The Infrared (IR) Page allows for control and configuration of IR functions relating to the HD11CTRL-V2. On this page you can enable or disable IR control and specify IR functions such as delay between sending commands and repeat intervals. The HD11CTRL-V2 also allows for up to 30 IR commands to be learned and stored in internal memory. IR commands can also be manually entered in Pronto Hex format, as well as sent out of the unit to test to ensure it correctly controls the connected IR device.

Control	Configuration	IR	CEC	RS-232 Test	Macros	Network	Upgrade	Diagnostics	Admin
			03 Display O 04 Display O 05 FUNCTION	elect 0000 006D 0000 0 f 1 0000 006D 0000 0 f 2 0000 006D 0000 0 k 1 0000 006D 0000 0 and 0000 006D 0000 0	2.0 5ec(1-180) VALUE 0002 0158 00AD 0015 (0006 0087 0035 0012 (0006 0087 0042 0010 (00080 0084 0042 0010 (00080 0085 0041 0012 (00080 0085 0041 0012 (BR Carrier DBL EDIT DEL D015 EDIT DEL D0000 EDIT DEL D0001 EDIT DEL D0001 EDIT DEL D0001 EDIT DEL D0001 EDIT DEL D0101 EDIT DEL			
BLUSTR	₽₽			HD11C	TRL-V2				Log Out

CEC Page

The CEC Page allows a user to send CEC commands to connected HDMI devices. The user can select between the input HDMI source device our the output HDMI display device. It is also possible to send user defined CEC commands.

Control	Configuration	IR	CEC	RS-232 Test	Macros	Network	Upgrade	Diagnostics	Admin
		CEC ON Menu U Left En Back Do	p Volume +	ions On Off Previous Nex REW FF	stop II t Pause	User-d User-d Trigger 1 Send Trigger 2 Send			
BLUSTR	54///→			HD11C	TRL-V2				Log Out

BLUSTR €^///→

RS-232 Test Page

The RS-232 Test Page allows for sending our an RS-232 command via the HD11CTRL-V2. Commands can be sent out in either ASCII or HEX format, and the baud rate can be adjusted accordingly. Please note this page is purely to test the functionality of the HD11CTRL-V2 RS-232 port and the connected RS-232 device.

Control	Configuration	CEC		Macros	Network	Upgrade	Diagnostics	Admin
		Character Set	t Ascii ~	Baud Rat	e 57600 v			
		Command Ending	g NULL ~	Parit	ny NULL -			
		RS-232 Command						
			Te	st				
		C) These settings only w	ork for command testing	g.			
BLUSTR			HD11C	TRL-V2				Log Out

Macros Page

The Macros Page allows configuration of up to 10 macros with up to 10 commands within each macro. Macros can be renamed as well as be triggered off input signal detect

Control	Config	uration	IR		CEC	RS-2	32 Test	Macros	Network	Upgrade	Diagnostics	s Admin	
	Sele	ect Macros	Macro 1 🗸	м	lacro name	Macro 1 (3-2	20 chars)		Import All M	lacros Ex	kport All Macros		
							— Mao	ros					
					Signal trigger	No Trigger		Trigger delay	600.0 0-10800s				
СМД	Type (C	Delay D-180s)	Repeat (0-2)	Repeat Delay	Code	Baud Rate	Parity		Commands		Ending		
1 R	S-232 🗸	10.0		10.0	ascii 🗸	57600 ~	None 🗸				NULL ~ S	ave Clear	
СМД	Type (C	Delay)-180s)	Repeat (0-2)	Repeat Delay	Code	Baud Rate	Parity		Commands		Ending		
2 R	S-232 🗸				ASCII 🗸	57600 ~	None 🗸				NULL ~ S	ave Clear	
		Delay	Repeat	Repeat									
	Type (C)-180s)	(0-2)	Delay	Code	Baud Rate	Parity		Commands		Ending		
3 R	S-232 🗸	10.0		10.0	ASCII 🗸	57600 ~	None 🗸				NULL ~ S	ave Clear	
BLUSTR	254	∕∕⊸					HD11C	TRL-V2				Log Out	

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Network Page

The Network Page allows you to specify the TCP/IP network port settings. You can choose from Static IP or DHCP, as well as specify a fixed IP Address, Subnet Mask and Gateway. It is also possible to change or disable the Telnet port.

Control	Configuration		CEC	RS-232 Test	Macros		Upgrade	Diagnostics	Admin
		MAC Address: 3	4:D0:B8:23:0A:D2		mDNS:	ON			
			DHCP	Static IP	Port 8000:	ON			
		IP Address;	192.168.7.44		Telnet Access;	ON			
		Subnet Mask:	255.255.255.0		Telnet Port:				
		Gateway:	192.168.7.1		Hostname:	HD11CTRL-V2	local Save		
			Save						
BLUSTR	54///→			HD110	CTRL-V2				Log Out

Upgrade Page

The Upgrade Page will show you the current firmware version of the HD11CTRL-V@, including the Web GUI version and the MCU firmware version. It also allows you to upgrade the firmware of the MCU. Simply browse for the firmware update file, and press Submit.

Control	Configuration	CEC	RS-232 Test	Macros	Network	Upgrade	Diagnostics	Admin
			——— Device In					
			HD11C GUI: \ Firmwar	/1.2.0				
				Firmware				
			ase select file Sut	Brow				
BLUSTR			HD11C	TRL-V2				Log Out

Diagnostics Page

The Diagnostics Page provides document

Control	Configuration	IR	CEC	RS-232 Test	Macros	Network	Upgrade	Diagnostics	Admin
			 Source Info Source EDID Detail Bandwidth(Gbps) 	HDMI Office Connected EDID pass-through(0 17.15					
				HDMI C	DUTPUT				
			(i) Display Info	IP300UHD					
			Display	Connected					
			(i) CEC	Source control On, [Display control On				
			Display EDID Detail	3840x2160p@60 S	DR LPCM	Export EDID file			
			(i) Scaling	No Scaling					
			 Bandwidth(Gbps) 	17.04					
				Refi	resh				
BLUSTR	?∃^///~→			HD11C	TRL-V2				Log Out

Admin Page

The Admin Page allows the admin to configure up to 8 users. Each user can adjust their password via this page as well.

The Admin, or Users who have been given Admin permissions, are able to allocate permissions to Users. These permissions include allowing or disallowing access to each page in the Web GUI. The Admin Page also allows the device to be reset to the factory default settings.

Control	Configuration		CEC	RS-232 Test	Macros	Network	Upgrade	Diagnostics	
					redentials				
		Username	Curr	ent Password	New Passw	vord	Confirm New Password		
		blustream							
				User Aut	horization				
		User 1	User 2 U	ser 3 User 4	User 5 User	r 6 User 7	User 8		
		OFF	OFF	OFF OFF	OFF OF	OFF OFF	OFF		
				U	ser				
		User 1	User 2 U	ser 3 💿 User 4	User 5	User 6 User	r 7 User 8		
		osci 1	USCI 2			03010	User o		
		Username	Curr	ent Password	edentials New Passw		Confirm New Password		
		Oscillanc	Cui		1101110551		Committee Password		
				11 P-	rmission				
		Control	Configuratio				RS-232 Test		
		Macros	Network			Diagnostics	Admin		
		macros	INetwork	Upg	race	Diagnostics	Admin		
							Reset		
						 Reset all setting 	gs of the unit including		
						hetwork and	general settings.		
				Sector	ave				
BLUSTE	?⊟^\/\/-→			HD110	TRL-V2				Log Out

RS-232 Control Port

The HD11CTRL-V2 can be controlled and configured via a 3-pin Phoenix to serial RS-232 cable (supplied). All RS-232 commands must be terminated with a carriage return <CR> or \r. The communication settings and commands are as follows:

Baud Rate: 57600 bps Data Bit: 8-bit	Parity: None Stop Bit: 1-bit	Flow Control: None
RS-232 COMMAND	DESCRIPTION	
?	Print Help Information	
HELP	Print Help Information	
STATUS	Print System Status And Port Status	
INSTA	Print All Input Status	
OUTSTA	Print All Output Status	
CTRLSTA	Print All Control Status	
KEY ON/OFF	Set System Key Control On Or Off	
IR ON/OFF	Set System IR Control On Or Off	
NOSIGDLY xxxxx	Set No Signal Delay Timeout To xxxxx Secon	d(s)
NOSENSORDLY XXXXX	Set System Off Time To xxxxx Second(s) (Def When No Sensor Signal Has Been Detected,	
RESET	Reset System To Default Setting (Type "Yes" To Confirm, "No" To Discard)	
TRGON X	Set The Trigger Method x To Perform System x = 1 - Sensor Only x = 2 - HDMI Only (5V)(default) x = 3 - HDMI Only (TMDS) x = 4 - Sensor Or HDMI (5V) x = 5 - Sensor Or HDMI (TMDS)	On
TRGOFF x	Set The Trigger Method x To Perform System x = 1 - No Sensor Only x = 2 - No HDMI Only (5V)(default) x = 3 - No HDMI Only (TMDS) x = 4 - No Sensor And HDMI (5V) x = 5 - No Sensor And HDMI (TMDS)	Off
SCALER ON/OFF	Set Scaler On or Off	
EDID xx DF zz		OLBY OLBY/HD DJBY/HD S/DOLBY/HD udio 2ch PCM udio 5.1ch DTS/DOLBY udio 7.1ch DTS/DOLBY/HD DOLBY DOLBY/HD
EDID xx CP yy	Copy EDID From Output yy To Input xx	
	copy EDD from output yy to input A	

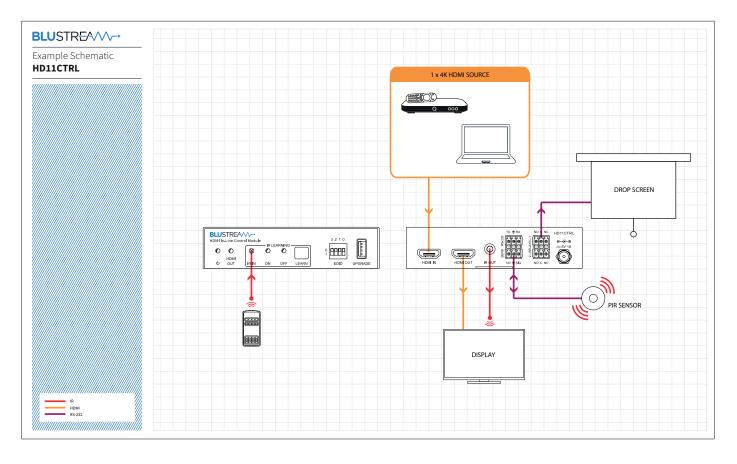
BLUSTREAVV→ ______ HD11CTRL-V2 USER MANUAL

RS-232 COMMAND	DESCRIPTION
EDIDSAVE xx	Load the custom external EDID from USB, then save it into slot xx xx = 22: User EDID 1 xx = 23: User EDID 2
RELAY1 xxx	Set The Relay 1 Delay Time To xxx (Default 10s, Range From 3s To 180s, 00=Fixed Open)
RELAY2 xxx	Set The Relay 2 Delay Time To xxx (Default 10s, Range From 3s To 180s)
IRLEARN X	Learn IR Command Into Slot x x = 1 Learn IR Display On x = 2 Learn IR Display Input Select x = 3 Learn IR Display Off x = 4 Learn IR User Command 1 x = 5 Learn IR User Command 2
IRDEL x	Delete IR Command In Slot x x = 1 Delete IR Display On x = 2 Delete IR Display Input Select x = 3 Delete IR Display Off x = 4 Delete IR User Command 1 x = 5 Delete IR User Command 2
IRSEND x	Send IR Command In Slot x x = 1 Send IR Display On x = 2 Send IR Display Input Select x = 3 Send IR Display Off x = 4 Send IR User Command 1 x = 5 Send IR User Command 2
IRDLY xxx	Set Sending Interval Time To xxx Second(s) Between IR Commands (Default 3s, Range From 1s To 180s)
IROFFRPT 1x	Set x Number Of Times IR Off 1 Command Is Repeated (Default 1 Time, Range 1 To 2 Times)
IROFFRPT 2x	Set x Number Of Times IR Off 2 Command Is Repeated (Default 1 Time, Range 1 To 2 Times)
IROFFRPTDLY xx	Set Sending Interval Time To xx Second(s) Between IR Off Commands
AUTOONCECINPUT yy	Enable CEC input select for Auto ON Macro to input yy yy = 00: Off yy = [01-04]: Input Select
OUT CEC ENABLE	Enable CEC
OUT CEC DISABLE	Disable CEC
OUT CEC INPUT yy	Send Output CEC Input yy Command
OUT CEC PON	Send Output CEC Power On Command
OUT CEC POFF	Send Output CEC Power Off Command
OUT CEC VOLUP	Send Output CEC Vol Up Command
OUT CEC VOLDOWN	Send Output CEC Vol Down Command
OUT CEC MUTE	Send Output CEC Mute Command
RS232BAUD z	Set RS232 Baud Rate To xx. z = 1 2400, 2 4800, 3 9600, 4 19200, 5 38400, 6 57600 (Default), 7 115200
RS232ON x:y:z:a	Send y Type Of Command a Stored In Slot x Whose Baud Rate Is z - Note: will disable other RS232 feedback x = 1 Send RS232 Display On x = 2 Send RS232 Display Input Select x = 3 Send RS232 User Command 1 x = 4 Send RS232 User Command 2 y = a ASCII, h HEX z = 1 2400, 2 4800, 3 9600, 4 19200, 5 38400, 6 57600 (Default), 7 115200 a = RS232 Command - Note: to insert a carriage return in a command use \r
RS232ON DISABLE	Disable Auto RS232 Commands When Detecting A Signal
RS232OFF y:z:a	Set RS232 Off Command a Of y Type Whose Baud Rate Is z - Note: will disable other RS232 feedback y = a ASCII, h HEX z = 1 2400, 2 4800, 3 9600, 4 19200, 5 38400, 6 57600 (deDault), 7 115200 a = RS232 command - Note: to insert a carriage return in a command use \r
RS2320FF DISABLE	Disable Auto RS232 Commands When Not Detecting A Signal
RS232DLY xxx	Set Sending Interval Time In xxx Seconds Between RS232 Commands
RS232RPT x	Set x Number Of Times RS232 OFF Command Is Repeated
RS232RPTDLY xx	Set Sending Interval Time In xx Second(s) Between RS232 OFF Commands (Default 2s, Range From 1s To 10s)

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Schematic



Specifications

HD11CTRL-V2

Video Input Connectors: 1 x HDMI Type A, 19-pin, female Video Output Connectors: 1 x HDMI Type A, 19-pin, female RS-232 Serial Port: 1 x 3-pin Phoenix connector TCP/IP Control Port: 1 x RJ45, female IR Output Port: 1 x 3.5mm mono jack Relay Control: 2 x 3-pin Phoenix connector Sensor Input: 1 x 3-pin Phoenix connector EDID Selection: 4-pin DIP Switch Product Upgrade: 1 x USB Type A, female Dimensions (W x H x D): 145mm x 28mm x 84mm Shipping Weight: 1.0kg Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: - 4°F to 140°F (- 20°C to 60°C) Power Supply: 12V/1A DC

Package Contents

HD11CTRL-V2

- 1 x HD11CTRL-V2
- 1 x 12V/1A DC Power Supply
- 1 x IR Emitter
- 1 x RS-232 Control Cable
- 1 x Mounting Kit
- 1 x Quick Reference Guide

Certifications

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION - changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CANADA, INDUSTRY CANADA (IC) NOTICES

This Class B digital apparatus complies with Canadian ICES-003.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

CANADA, AVIS D'INDUSTRY CANADA (IC)

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003.

Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

CORRECT DISPOSAL OF THIS PRODUCT

This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.





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