



Ethernet-Enabled HDBaseT™ Scaler with HDMI and Analog Audio Outputs

Application Programming Interface

AT-HDVS-200-RX

Atlona Manuals
Scalers

Version Information

Version	Release Date	Notes
1	Oct 2019	Updated for 2.0.36 firmware; various bug fixes; added Letterbox Top setting to Aspect command; added RelayPulseTime and RelayType commands.

Commands

The following tables provide an alphabetical list of commands available on the AT-HDVS-200-RX. All commands are case-sensitive and must be entered as documented. If the command fails or is entered incorrectly, then the feedback is “Command FAILED”.

 **IMPORTANT:** Each command is terminated with a carriage-return (0x0d) and the feedback is terminated with a carriage-return and line-feed (0x0a).

Command	Description
Aspect	Sets the aspect ratio of the output signal
BASS	Increases or decreases the amount of bass on the output
Blink	Enables or disables blinking of the DN button on the front panel
Broadcast	Enables / disables broadcast mode
BRT	Sets the picture brightness
CSpara	Sets the baud rate, data bits, stop bits, and parity for the RS-232 2 port
CTRST	Sets the picture contrast
HDBTRS232	Sets the baud rate, data bits, parity bit, and stop bits for the HDBaseT IN port.
HDCPSet	Sets the HDCP reporting mode for the HDMI input on the transmitter
HDMIAUD	Enables / disables audio on the HDMI output
help	Displays the list of available commands
HUE	Sets the picture hue
HZoom	Sets the horizontal overscan setting for the output image
Input	Sets the active input
IPAddUser	Adds a user for Telnet control
IPCFG	Displays the current network settings for the AT-HDVS-200-RX
IPDelUser	Deletes the specified Telnet user
IPDHCP	Enables / disables DHCP mode on the AT-HDVS-200-RX
IPLogin	Enables / disables login credentials when starting a Telnet session
IPPort	Sets the Telnet listening port for the AT-HDVS-200-RX
IPStatic	Sets the static IP address, subnet mask, and gateway for the AT-HDVS-200-RX
IPTimeout	Specifies the time interval of inactivity before the Telnet session is closed
KitMode	Displays the model information and the IP address of the transmitter
Mreset	Resets the AT-HDVS-200-RX to factory-default settings
PictureRst	Resets all picture settings
PrefTimg	Sets the preferred HDMI input timing

Commands

Command	Description
RelayAct	Configures the specified relay port
RelayAuto	Sets the state of the specified relay
RelayPulseTime	Sets the relay pulse time interval
RelayType	Sets the relay type
RS232para	Sets the baud rate, data bits, stop bits, and parity for the RS-232 1 port
RS232zone	Send a command to the display device
SATRT	Sets the picture color saturation
SHARP	Sets the picture sharpness
System	Displays system information about the AT-HDVS-200-RX
TREBLE	Increases / decreases the treble on the output
Type	Displays model information
Version	Displays the current firmware version of the AT-HDVS-200-RX
VidOutRes	Sets the video output resolution
VOUT	Increases / decreases the audio volume
VOUTMute	Mutes / unmutes the audio
VZoom	Adjusts the vertical zoom (overscan) of the output image
Zoom	Enables / disables overscan

Aspect

Sets the aspect ratio of the output signal. The default setting is **Full**.

Syntax

```
Aspect X
```

Parameter	Description	Range
X	Aspect ratio	0 = Full 1 = 16:9 2 = 16:10 3 = 4:3 4 = Keep Ratio 5 = Letterbox Top

Example

```
Aspect 1
```

Feedback

```
Aspect 1
```

BASS

Increases / decreases the amount of bass on the output. In addition to specifying an integer value, the + and - arguments can be used, by themselves, to increase or decrease the bass by 1 value, respectively. To display the current value, use the sta argument.

Syntax

```
BASS1 X
```

Parameter	Description	Range
X	Value	-15 ... 12, sta

Example

```
BASS1 -5
BASS1 +
```

Feedback

```
BASS1 -5
BASS1 -4
```

Blink

Enables or disables blinking of the **DN** button on the front panel. When set to on, the **DN** button will flash red and can be used to physically identify the unit on a network. on = enables **DN** button blinking; off = disables **DN** button blinking; sta = displays the current Blink setting. The default setting is off.

Syntax

```
Blink X
```

Parameter	Description	Range
X	Value	on, off, sta

Example

Blink on

Feedback

Blink on

Broadcast

Enables / disables broadcast mode. By default, broadcast mode is set to off. When set to on, changes in the web GUI will also be affected on the control system (if connected), via TCP/IP. To separate control between web GUI and Telnet, set this feature off. on = enables broadcast mode; off = disables broadcast mode; sta = displays the current Broadcast setting.

Syntax

```
Broadcast X
```

Parameter	Description	Range
X	Value	on, off, sta

Example

Broadcast on

Feedback

Broadcast on

BRT

Sets the picture brightness. Use the sta argument to display the current brightness setting.

Syntax

```
BRT X
```

Parameter	Description	Range
X	Value	0 ... 100, sta

Example

BRT 60

Feedback

BRT 60

CSpara

Sets the baud rate, data bits, parity bit, and stop bits for the **RS-232 2** port on the AT-HDVS-200-RX. Use this port to control the AT-HDVS-200-RX. Each argument must be separated by a comma; no spaces are permitted. Brackets must be used when typing this command. Use the sta argument to display the current serial port settings.

Syntax

```
CSpara[W,X,Y,Z]
```

Parameter	Description	Range
W	Baud rate	2400, 4800, 9600, 19200, 38400, 57600, 115200
X	Data bits	7, 8
Y	Parity bit	None, Odd, Even
Z	Stop bits	1, 2

Example

```
CSpara[115200,8,0,1]
CSpara[sta]
```

Feedback

```
CSpara[115200,8,0,1]
CSpara [115200,8,0,1]
```

CTRST

Sets the picture contrast. Use the sta argument to display the current contrast setting.

Syntax

```
CTRST X
```

Parameter	Description	Range
X	Contrast	0 ... 100, sta

Example

```
CTRST 65
```

Feedback

```
CTRST 65
```

HDBTRS232

Sets the baud rate, data bits, parity bit, and stop bits for the **HDBaseT IN** port. Each argument must be separated by a comma; no spaces are permitted. Brackets must be used when typing this command. Use the *sta* argument, *without brackets and including a space*, to display the current settings.

Syntax

```
HDBTRS232[W,X,Y,Z]
```

Parameter	Description	Range
W	Baud rate	2400, 4800, 9600, 19200, 38400, 57600, 115200
X	Data bits	7, 8
Y	Parity bit	None, Odd, Even
Z	Stop bits	1, 2

Example

```
HDBTRS232[115200,8,0,1]
```

Feedback

```
HDBTRS232[115200,8,0,1]
```

HDCPSet

Set the HDCP reporting mode of the **HDMI IN** port on the transmitter. Some computers will send HDCP content if an HDCP-compliant display is detected. Setting this value to off, will report to the source device that the AT-HDVS-200-RX is not an HDCP-compliant device. This allows the source to transmit non-HDCP content to the sink. Setting this value to off will *not* decrypt HDCP content. on = enables HDCP detection; off = disables HDCP detection; sta = displays the current HDCPSet setting.

Syntax

```
HDCPSet X
```

Parameter	Description	Range
X	Value	on, off, sta

Example

```
HDCPSet on
```

Feedback

```
HDCPSet on
```

HDMIAUD

Enables / disables audio on the HDMI output. on = enables HDMI audio output; off = disables HDMI audio output; sta = displays the current HDMIAUD setting.

Syntax

```
HDMIAUD
```

Parameter	Description	Range
X	Value	on, off, sta

Example

```
HDMIAUD off
```

Feedback

```
HDMIAUD off
```

help

Displays the list of available commands. To obtain help on a specific command, enter the **Help** command followed by the name of the command.

Syntax

```
help X
```

Parameter	Description	Range
X	Command name (optional)	Command

Example

```
help
```

Feedback

```
Command List:
```

```
-----
Aspect
HDMIAUD
RS232para
RS232zone
HDCPSet
Version
Input
VidOutRes
Zoom
HZoom
```

```
...
```

```
...
```

HUE

Sets the picture hue. Use the sta argument to display the current HUE value.

Syntax

```
HUE X
```

Parameter	Description	Range
X	Value	0 ... 100, sta

Example

HUE 40

Feedback

HUE 40

HZoom

Set the horizontal zoom for the output image. Use the sta argument to display the current HZoom value.

Syntax

```
HZoom X
```

Parameter	Description	Range
X	Value	0 ... 50, sta

Example

HZoom 10

Feedback

HZoom 10

Input

Sets the active input. When specifying an HDMI input, the number of the input must also be specified. Do not add a space between HDMI argument and the input number. Use the sta argument to display the currently active input.

Syntax

```
Input X Y
```

Parameter	Description	Range
X	Input	HDMI, VGA, sta
Y	HDMI port identifier	1 ... 2

Example

Input HDMI2

Feedback

Input HDMI2

IPAddUser

Adds a user for Telnet control. This command performs the same function as adding a user within the **Config** page of the web GUI.

Syntax

```
IPAddUser X Y
```

Parameter	Description	Range
X	User name	20 characters (max)
Y	Password	20 characters (max)

Example

```
IPAddUser BigBoss b055man
```

Feedback

```
IPAddUser BigBoss b055man
TCP/IP user was added
```

IPCFG

Displays the current network settings for the AT-HDVS-200-RX.

Syntax

```
IPCFG
```

This command does not require any parameters

Example

```
IPCFG
```

Feedback

```
IP Addr: 10.0.1.101
Netmask: 255.255.255.0
Gateway: 10.0.1.1
IP Port: 23
```

IPDelUser

Deletes the specified TCP/IP user. This command performs the same function as removing a user within the **Config** page of the web GUI.

Syntax

```
IPDelUser X
```

Parameter	Description	Range
X	User	User name

Example

```
IPDelUser BigBoss
```

Feedback

```
IPDelUser BigBoss
TCP/IP user was deleted
```

IPDHCP

Enables / disables DHCP mode on the AT-HDVS-200-RX. on = enables DHCP mode; off = disables DHCP mode; sta = displays the current IPDHCP setting. If this feature is disabled, then a static IP address must be specified for the AT-HDVS-200-RX. Refer to the **IPStatic** command for more information.

Syntax

```
IPDHCP X
```

Parameter	Description	Range
X	Value	on, off, sta

Example

IPDHCP on

Feedback

IPDHCP on

IPLogin

Enables / disables the use of login credentials when starting a Telnet session on the AT-HDVS-200-RX. If this feature is set to on, then the AT-HDVS-200-RX will prompt for both the username and password. Use the same credentials as the web GUI. on = login credentials required; off = no login required; sta = displays the current IPLLogin setting.

Syntax

```
IPLLogin X
```

Parameter	Description	Range
X	Value	on, off, sta

Example

IPLLogin off

Feedback

IPLLogin off

IPPort

Sets the Telnet listening port for the AT-HDVS-200-RX. Use the sta argument to display the current port setting.

Syntax

```
IPPort X
```

Parameter	Description	Range
X	Port	0 ... 65535, sta

Example

IPPort 23

Feedback

IPPort 23

IPStatic

Sets the static IP address, subnet mask, and gateway (router) address of the AT-HDVS-200-RX. Before using this command, DHCP must be disabled on the AT-HDVS-200-RX. Refer to the [IPDHCP](#) command for more information. Each argument must be entered in dot-decimal notation and separated by a space. The default static IP address is 192.168.1.254.

Syntax

```
IPStatic X Y Z
```

Parameter	Description	Range
X	IP address	0 ... 255 (per byte)
Y	Subnet mask	0 ... 255 (per byte)
Z	Gateway (router)	0 ... 255 (per byte)

Example

IPStatic 192.168.1.112 255.255.255.0 192.168.1.1

Feedback

IPStatic 192.168.1.112 255.255.255.0 192.168.1.1

IPTimeout

Specifies the time interval of inactivity before the Telnet session is automatically closed.

Syntax

```
IPTimeout X
```

Parameter	Description	Range
X	Interval (in seconds)	1 ... 60000

Example

IPTimeout 300

Feedback

IPTimeout 300

KitMode

Displays the model information and the IP address of the transmitter. The sta argument must be specified.

Syntax

```
KitMode X
```

Parameter	Description	Range
X	Value	sta

Example

KitMode sta

Feedback

AT-HDVS-200-TX IP:10.0.1.161

Mreset

Resets the AT-HDVS-200-RX to factory-default settings.

Syntax

```
MReset
```

This command does not require any parameters

Example

```
Mreset
```

Feedback

```
Mreset
```

PictureRst

Resets the picture settings to factory-default settings. This command does not reset the unit to factory-default settings. Refer to the [Mreset](#) command for more information.

Syntax

```
PictureRst
```

This command does not require any parameters

Example

```
PictureRst
```

Feedback

```
PictureRst
```

PrefTimg

Sets the preferred input timing. Specify a value from 0 to 8.

Syntax

```
PrefTimg X
```

Parameter	Description	Range
X	Timing	0 .. 9

Input Timing List

0 = Native	6 = 1366x768
1 = 1280x800	7 = 800x600
2 = 1920x1080	8 = 1600x900
3 = 1024x768	9 = 1440x900
4 = 1280x720	
5 = 1920x1200	

Example

```
PrefTimg 3
```

Feedback

```
PrefTimg 3
```

RelayAct

Sets the initial state of the specified relay: normally-open (NO) or normally-closed (NC). The first argument specifies the relay and the second argument sets the state. open = opens the relay, close = closes the relay; sta = displays the current state of the **RelayAct** setting. When returning the relay state, the relay number must also be specified.

Syntax

```
Relay X Y
```

Parameter	Description	Range
X	Relay	1 ... 2
Y	State	open, close, sta

Example

```
RelayAct 1 open
RelayAct 1 sta
```

Feedback

```
RelayAct 1 open
RelayAct1 open
```

RelayAuto

Toggles the state of both relays. on = toggles the relay state and sets the control state to “follow display status”; off = toggles the relay state and set the control state to “manual”; sta = returns the current **RelayAuto** setting. An example of the “follow display status” state would be: When the projector is powered on, relay 1 (C1) could lower the projector screen and relay 2 (C2) might dim the lights. The “manual” control state provides the ability to override the current relay settings.

Syntax

```
RelayAuto X
```

Parameter	Description	Range
X	Value	on, off, ?

Example

```
RelayAuto on
```

Feedback

```
RelayAuto on
```

RelayPulseTime

Sets the relay pulse time interval. Specify the sta argument to display the current setting.

Syntax

```
RelayPulseTime X
```

Parameter	Description	Range
X	Time interval (sec)	0 ... 30, sta

Example

```
RelayPulseTime 5
```

Feedback

```
RelayPulseTime 5
```

RelayType

Sets the relay type. Specify the sta argument to display the current setting.

Syntax

```
RelayType X
```

Parameter	Description	Range
X	Type	pulse, closed, sta

Example

```
RelayType pulse
```

Feedback

```
RelayType pulse
```

RS232para

Sets the baud rate, data bits, parity bit, and stop bits for the **RS-232 1** port on the AT-HDVS-200-RX. This port is used to send commands to the connected display. Each argument must be separated by a comma; no spaces are permitted. Brackets must be used when typing this command. Use the `sta` argument, *without brackets and including a space*, to display the current settings.

Syntax

```
RS232para[W,X,Y,Z]
```

Parameter	Description	Range
W	Baud rate	2400, 9600, 19200, 38400, 56000, 57600, 115200
X	Data bits	7, 8
Y	Parity bit	None, Odd, Even
Z	Stop bits	1, 2

Example

RS232para[115200,8,0,1]
 RS232para sta

Feedback

RS232para[115200,8,0,1]
 RS232para[115200,8,0,1]

RS232zone

Sends commands to the connected display. Refer to the User Manual of the display device for a list of available commands. Brackets must be used when specifying the command to be sent. The command line string must not contain any spaces.

Syntax

```
RS232zone[X]
```

Parameter	Description	Range
X	Command	String

Example

RS232zone[command]

Feedback

RS232zone[command]

SATRT

Sets the picture color saturation value. Use the sta argument to display the current SATRT setting.

Syntax

```
SATRT X
```

Parameter	Description	Range
X	Saturation	0 ... 100, sta

Example

```
SATRT 50
```

Feedback

```
SATRT 50
```

SHARP

Sets the picture sharpness. Use the sta argument to display the current SHARP setting.

Syntax

```
SHARP X
```

Parameter	Description	Range
X	Sharpness	0 ... 100, sta

Example

```
SHARP 70
```

Feedback

```
SHARP 70
```

System

Displays system information about the AT-HDVS-200-RX. The sta argument must be specified.

Syntax

```
System X
```

Parameter	Description	Range
X	Status	sta

Example

```
System sta
```

Feedback

```

Model: AT-HDVS-200-RX
MAC Addr: b8-98-b0-00-36-a6
Address Type: DHCP
IP Addr: 10.0.1.65
Netmask: 255.255.255.0
Gateway: 10.0.1.1
HTTP Port: 80
Telnet Port: 23
Firmware: 2.0.36
On/Up Time <dd HH:mm:ss>: 00 01:12:47

```

TREBLE

Increases / decreases the amount of treble. In addition to specifying an integer value, the + and - arguments can be used, by themselves, to increase or decrease the amount of treble by 1 value, respectively. To display the current value, use the sta argument.

Syntax

TREBLE X

Parameter	Description	Range
X	Value	-12 ... 15, sta

Example

Treble 7

Treble -

Feedback

Treble 7

Treble 6

Type

Displays the model information of the AT-HDVS-200-RX.

Syntax

Type

This command does not require any parameters

Example

Type

Feedback

AT-HDVS-200-RX

Version

Displays the firmware version of the AT-HDVS-200-RX. No spaces must exist between the command and the argument. MCU = displays the microprocessor firmware, VS RX = displays the Valens firmware.

Syntax

VersionX

Parameter	Description	Range
X	Value	MCU, VS RX

Example

VersionMCU

Feedback

V1.1.28

VidOutRes

Sets the video output resolution. Use the sta argument to display the current video output resolution.

Syntax

```
VidOutRes
```

Parameter	Description	Range
X	Value	0 ... 28, sta

Output Resolution List

0 = 800x600	14 = 720p59
1 = 1024x768	15 = 720p60
2 = 1280x800	16 = 1080i50
3 = 1280x1024	17 = 1080i59.94
4 = 1366x768	18 = 1080i60
5 = 1400x1050	19 = 1080p23.98
6 = 1600x900	20 = 1080p24
7 = 1600x1200	21 = 1080p25
8 = 1680x1050	22 = 1080p29.97
9 = 1920x1200	23 = 1080p30
10 = 720p25	24 = 1080p50
11 = 720p29.97	25 = 1080p59.94
12 = 720p30	26 = 1080p60
13 = 720p50	27 = Input
	28 = Native

Example

```
VidOutRes 26
```

Feedback

```
VidOutRes 26
```

VOUT

Increases / decreases the audio output volume. In addition to specifying an integer value, the + and - arguments can be used, by themselves, to increase or decrease the volume by 1 value, respectively. To display the current value, execute the **VOUT** command without any arguments.

Syntax

```
VOUT
```

Parameter	Description	Range
X	Value	-80 ... 6

Example

```
VOUT 4
VOUT +
```

Feedback

```
VOUT 4
VOUT 5
```

VOUTMute

Mutes / unmutes the audio. on = enables muting; off = disables muting; sta = displays the current **VOUTMute** setting.

Syntax

```
VOUTMute X
```

Parameter	Description	Range
X	Value	on, off, sta

Example

VOUTMute on

Feedback

VOUTMute on

VZoom

Adjusts the vertical zoom (overscan) of the output image. Use the sta argument to display the current **VZoom** setting.

Syntax

```
VZoom X
```

Parameter	Description	Range
X	Value	0 ... 50, sta

Example

VZoom 10

Feedback

VZoom 10

Zoom

Enables / disables overscan. on = enables overscan; off = disables overscan; sta = displays the current **Zoom** setting.

Syntax

```
Zoom X
```

Parameter	Description	Range
X	Value	on, off, sta

Example

Zoom on

Feedback

Zoom on

