4K HDR

Multi-Channel to Two-Channel Audio Converter

Application Programming Interface

AT-HDR-M2C
AT-HDR-M2C-QUAD

Atlona Manuals
Audio

Version Information

Version	Release Date	Notes
1	Jul 2017	Initial release
2	Oct 2019	System sta command now returns hostname information; Added SHostName and RHostName commands.

Commands

The following tables provide an alphabetical list of commands available on both the AT-HDR-M2C and AT-HDR-M2C-QUAD. 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
AudioOut	Enables / disables PCM audio on the HDMI output.
BASS	Adjusts the bass on the audio output.
Broadcast	Enables / disables broadcast mode.
HDCPSet	Sets the HDCP mode on the HDMI input.
help	Displays the list of available commands.
IPAddUser	Adds a user to TCP/IP control.
IPCFG	Displays the IP settings of the unit.
IPDelUser	Deletes the specified user from TCP/IP control.
IPDHCP	Enables / disables DHCP mode.
IPLogin	Enables / disables IP login.
IPPort	Sets the TCP/IP listening port for the unit.
IPQuit	Terminates the IP session.
IPStatic	Sets the static IP address of the unit.
IPTimeout	Sets the TCP/IP timeout interval before the connection is terminated.
Mreset	Resets the unit to factory-default settings.
PrefTimg	Sets the preferred timing on the output.
RHostName	Displays the hostname of the unit.
SHostName	Sets the hostname of the unit.
System	Displays network information about the unit.
TREBLE	Adjusts the treble on the audio output.
Type	Displays the model information of the unit.
Version	Displays the firmware version of the unit.
VOUT	Adjusts the volume of the audio output.
VOUTMute	Mutes / un-mutes the audio on the analog AUDIO OUT and HDMI ports.

AudioOut

Enables / disables audio on the **HDMI - PCM 2**, **OPTICAL**, and analog output ports. on = enables the audio output; off = disables audio output; sta = displays the current AudioOut1 setting. Note that the **HDMI - PCM 2** port is not available on the AT-HDR-M2C-QUAD.

Syntax
AudioOut1 X

Parameter	Description	Range
X	State	on, off, sta

Examples
AudioOut1 on

Feedback
AudioOut1 on

BASS

Increases / decreases the amount of bass on the **HDMI - PCM 2**, **OPTICAL**, and analog output port. 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, execute the BASS1 command without any arguments. Note that the **HDMI - PCM 2** port is not available on the AT-HDR-M2C-QUAD.

Syntax
BASS1 X

Parameter	Description	Range
X	Value	-15 ... 15

Example
BASS1 -5
BASS1 +

Feedback
BASS1 -5
BASS1 -4

Broadcast

Enables or disables broadcast mode. When set to on, any state change to the AT-HDR-M2C / AT-HDR-M2C-QUAD will be reflected through RS-232, Telnet, and TCP port 9000. Changes can be caused by updating settings within the built-in web server, physical connection/disconnection of source/sink, and/or Telnet/TCP clients making changes. on = broadcast enabled; off = broadcast disabled; sta = displays the current setting. The default setting is on.

Syntax
Broadcast X

Parameter	Description	Range
X	Value	on, off, sta

Example
Broadcast on

Feedback
Broadcast on

HDCPSet

Set the HDCP reporting mode of the **HDMI IN** port. Some devices will automatically send HDCP content if an HDCP-compliant display is detected. Setting this value to off, will force the device to ignore detection of HDCP-compliant displays, allowing non-HDCP content to be transmitted from the souce. Note that disabling this feature will *not* decrypt HDCP content. on = enables HDCP detection; off = disables HDCP detection; sta = displays the current HDCPSet1 setting.

Syntax
HDCPSet1 X

Parameter	Description	Range
X	Value	on, off, sta

Example
HDCPSet1 on

Feedback
HDCPSet1 on

help

Displays a list of all available commands.

Syntax
help

This command does not require any parameters

Example
help

Feedback
Command List
---
help
IPCFG
IPDHCP
...
...
TREBLE1

IPAddUser

Adds the specified user. This command performs the same function as adding a user within the web GUI. Refer to the User Manual for more information.

Syntax
IPAddUser X

Parameter	Description	Range
X	User	User name

Example
IPAddUser minion2

Feedback
IPAddUser minion2
TCP/IP user was added

IPCFG

Displays the current network settings for the unit.

Syntax
IPCFG

This command does not require any parameters

Example
IPCFG

Feedback
IP Addr 10.0.1.86
Netmask 255.255.255.0
Gateway 10.0.1.1
IP Port 23

IPDelUser

Deletes the specified user. Deleted users will no longer be able to access the web GUI or initiate Telnet sessions. This command performs the same function as removing a user within the web GUI. Refer to the User Manual for more information.

Syntax
IPDelUser X

Parameter	Description	Range
X	User	User name

Example
IPDelUser Minion2

Feedback
IPDelUser Minion2
TCP/IP user was deleted

IPDHCP

Enables / disables DHCP mode on the unit. 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 unit. Refer to the IPStatic command.

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 using the unit. If this feature is set to on, then the unit 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 IPLogin setting.

Syntax
IPLogin X

Parameter	Description	Range
X	Value	on, off, sta

Example
IPLogin off

Feedback
IPLogin off

IPPort

Sets the TCP/IP listening port for the unit. It is not recommended to use the following ports:

80 (HTTP)
443 (HTTPS)
22 (SSH)
9000 - 9100 (TCP socket ports)

Syntax
IPPort X

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

Example
IPPort 230

Feedback
IPPort 230

IPQuit

Terminates the IP session.

Syntax
IPQuit

This command does not require any parameters

Example
RHostName

Feedback
M2CQUAD-00012E

IPStatic

Sets the static IP address, subnet mask, and gateway (router) address. Before using this command, DHCP must be disabled on the unit. 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)	0 ... 300

Example
IPTimeout 60

Feedback
IPTimeout 60

Mreset

Resets the unit to factory-default settings.

Syntax
MReset

This command does not require any parameters

Example
Mreset

Feedback
Mreset

PrefTimg

Sets the preferred timing of the input video signal. When selecting **HDMI OUT** or **HDMI PCM 2**, the device will use the EDID of the display/sink device, connected to that output. If no sink is present, then this option will not be available. Note that the **HDMI - PCM 2** port is not available on the AT-HDR-M2C-QUAD.

Syntax
PrefTimg X

Parameter	Description	Range
X	Value	0 ... 10

Preferred Timing List
0 = 1280 x 800
1 = 1920 x 1080
2 = 1024 x 768
3 = 1280 x 720
4 = 1920 x 1200
5 = 1366 x 768
6 = 800 x 600
7 = 1600 x 900
8 = 2560 x 1600
9 = 3840 x 2160 @ 30 Hz
10 = 3840 x 2160 @ 60 Hz
11 = HDMI OUT
12 = HDMI PCM 2

Example
PrefTimg 2

Feedback
PrefTimg 2

RHostName

Displays the hostname of the unit. Execute the SHostName command to set the hostname of the unit.

Syntax
RHostName

This command does not require any parameters

Example
RHostName

Feedback
M2CQUAD-00012E

SHostName

Sets the hostname of the unit. This value can be changed to easily identify the unit on a network or within the Atlona Management System (AMS). If using a custom hostname, it must meet the hostname standards defined here: https://tools.ietf.org/html/rfc1123.

Syntax
SHostName X

Parameter	Description	Range
X	Value	String

Example
SHostName

Feedback

System

Displays information about the AT-DISP-CTRL. The sta argument must be specified.

Syntax
System X

Parameter	Description	Range
X	Constant	sta

Example
System sta

Feedback
Model: AT-HDR-M2C-QUAD
MAC Addr: B8:98:B0:00:01:2E
Address Type: DHCP
IP Addr: 10.20.40.170
Netmask: 255.255.255.0
Gateway: 10.20.40.1
HTTP Port: 80
Telnet Port: 23
Firmware: 1.0.08
On/Up Time <dd HH:mm:ss>: 03 19:14:43
Hostname: M2CQUAD-00012E

TREBLE

Increases / decreases the amount of treble **HDMI - PCM 2**, **OPTICAL**, and analog output port. 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, execute the TREBLE1 command without any arguments. Note that the **HDMI - PCM 2** port is not available on the AT-HDR-M2C-QUAD.

Syntax
TREBLE1 X

Parameter	Description	Range
X	Value	-15 ... 15

Example
TREBLE1 8
TREBLE1 -

Feedback
TREBLE1 8
TREBLE1 7

Type

Displays the model information.

Syntax
Type

This command does not require any parameters

Example
Type

Feedback
AT-HDR-M2C

Version

Displays the current firmware version.

Syntax
Version

This command does not require any parameters

Example
Version

Feedback
0.2.05

VOUT

Increases / decreases the audio volume **HDMI - PCM 2**, **OPTICAL**, and analog output port. 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 VOUT1 command without any arguments. Note that the **HDMI - PCM 2** port is not available on the AT-HDR-M2C-QUAD.

Syntax
VOUT1

Parameter	Description	Range
X	Value	-80 ... 6

Example
VOUT1 4
VOUT1 +

Feedback
VOUT1 4
VOUT1 5

VOUTMute

Mutes / unmutes the audio on the **HDMI - PCM 2**, **OPTICAL**, and analog output port. on = enables muting; off = disables muting; sta = displays the current VOUTMute1 setting. Note that the **HDMI - PCM 2** port is not available on the AT-HDR-M2C-QUAD.

Syntax
VOUTMute1 X

Parameter	Description	Range
X	Value	on, off, sta

Example
VOUTMute1 on

Feedback
VOUTMute1 on

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