



# OmniStream Pro Encoders / Decoders

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Application Programming Interface  
1.2.4

## Version Information

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Version	Release Date	Notes
1	Mar 2017	Initial release
2	Jul 2018	Updated to cover 1.2.1 firmware
3	Jan 2019	Updated to cover 1.2.2 firmware
4	May 2019	Updated to cover 1.2.4 firmware; the AnalogInputEnable, AnalogInputStatus, AnalogOutputEnable, and AnalogOutputStatus commands have been replaced by the AnalogPowerEnable and AnalogPowerStatus commands.

## Commands

Commands can be sent using Telnet, SSH, or RS-232 protocol, except where noted. The **Enc** and **Dec** columns denote the availability of the command on the encoder, decoder, or both. Commands are *not* case-sensitive. If the command fails or is entered incorrectly, then the feedback is “Unknown command”.



**IMPORTANT:** Each command must be terminated with a carriage-return (0x0d) and the feedback is terminated with a carriage-return and line-feed (0x0a). In addition, when sending multiple commands, at least 500 milliseconds should be specified between each command.

Refer to the following table for port assignments when using a control system.

Protocol	Port
Telnet (with NVT support)	23
Telnet (without NVT support)	2323
SSH	22

Command	Enc	Dec	Description
8021xMode	●	●	Sets the 802.1x mode for the specified interface
AnalogPowerEnable		●	Enable or disable the analog power for the specified HDMI output
AnalogPowerStatus		●	Displays the power state for the specified HDMI output
AudioActiveInput		●	Displays the active audio input for the specified HDMI output
AudioActiveStatus		●	Displays the audio status for the specified HDMI output
AudioBackupInput		●	Sets the backup audio input for the specified HDMI output
AudioBackupMode		●	Sets the backup audio mode for the specified HDMI output
AudioDestIP	●		Sets the destination audio IP address for the specified session
AudioDestPort	●		Sets the destination audio port for the specified session
AudioEnable	●		Enable or disable the audio for the specified session
AudioInput		●	Sets the audio input for the specified HDMI output
AudioMute		●	Enable or disable muting on the specified HDMI output
AudioSource	●		Sets the HDMI audio source for the specified session
AudioToBackup		●	Assigns the active audio input as the backup audio input
AudioToPrimary		●	Assigns the active audio input as the primary audio input
AudioVolume		●	Sets the output volume on the specified HDMI output
AuxBidirectional	●		Enable or disable bidirectional control for the specified session
AuxDecodeInput		●	Sets the auxiliary input for the specified HDMI output
AuxDestIP	●		Sets the auxiliary destination IP address for the specified session
AuxDestPort	●		Sets the auxiliary destination port for the specified session
AuxEnable	●		Enable or disable the auxiliary channel for the specified session
AuxListenPort	●		Sets the auxiliary channel listening port for the specified session
AuxSource	●		Sets the serial port for the specified session
Broadcast	●	●	Enable or disable broadcast mode
DisplayBtn	●		Sends the specified command to the desired HDMI output
Descramble		●	Enables or disables descrambling for the specified HDMI output ( <b>SSH only</b> )

Command	Enc	Dec	Description
DescrambleKey		●	Specifies the descrambling key for the specified HDMI output ( <b>SSH only</b> )
EDIDMSet	●		Sets the EDID for the specified HDMI input
EnableAES67	●	●	Enables or disables AES67 on the specified output/session
EncoderBitDepth	●		Sets the bit depth for the specified encoder
EncoderBitRate	●		Sets the bit rate for the specified encoder
EncoderInput	●		Sets the input for the specified encoder
EncoderSubSample	●		Sets the chroma subsampling value for the specified encoder
FastSwitching		●	Enable or disable Fast Switching on the HDMI output
FrontPanelLock	●	●	Locks or unlocks the buttons on the front panel of the unit
HDCPSet	●		Sets the version of HDCP for the specified HDMI input
Help	●	●	Displays the list of available commands
Identify	●	●	Flashes the LED indications on the front panel for 10 seconds
Input	●		Displays whether or not an input signal exists on the specified HDMI input
InputBtn	●		Sets the input
IPCFG	●	●	Displays IP configuration for the specified interface
IPDHCP	●	●	Enable or disable DHCP mode on the specified interface
IPInputEnable		●	Enable or disable the specified input
IPInputFilterAddr		●	Sets the filter address(es) for the specified IP input
IPInputFilterMode		●	Sets the mode for filter addresses
IPInputInterface		●	Sets the interface for the specified IP input
IPInputMulticast		●	Sets the multicast address for the specified IP input
IPInputPort		●	Sets the listening port for the specified IP input
IPLogin	●	●	Enable or disable login authentication for Telnet/NVT
IPPort	●	●	Sets the Telnet listening port for the specified interface
IPQuit	●	●	Exits the CLI
IPStatic	●	●	Sets the static IP address for the specified interface
IPTimeout	●	●	Sets the timeout interval in seconds
License	●	●	Installs the specified license key
Mclear	●	●	Resets the unit to empty configuration
Mreset	●	●	Resets the unit to factory-default settings
Quit	●	●	Exits the CLI
Reboot	●	●	Reboots the unit
SapEnable		●	Enable or disable the Session Announcement Protocol (SAP)
SerialBaud	●	●	Sets the baud rate for the specified serial port
SerialData	●	●	Sets the number of data bits for the specified serial port
SerialDestEnable		●	Enable or disable bidirectional data flow for the specified serial port
SerialDestIP		●	Sets the destination IP address for the bidirectional serial port
SerialDestPort		●	Sets the destination port for the bidirectional serial port
SerialInput		●	Sets the input port for the serial port
SerialInterface		●	Sets the interface for the specified serial port
SerialMode		●	Sets the serial mode for the specified serial port

Command	Enc	Dec	Description
SerialParity	●	●	Sets the parity bit for the specified serial port
SerialPort	●	●	Sets the serial port to the specified port
SerialStop	●	●	Sets the number of stop bits for the specified serial port
SessionScramble	●		Enables or disables scrambling for the specified session ( <b>SSH only</b> )
SessionScrambleKey	●		Sets the scrambling key for the specified session ( <b>SSH only</b> )
SetCmd	●	●	Specifies the command to be send over RS-232
SlateLogo	●	●	Sets the slate logo for the specified HDMI output
SlateMode	●	●	Sets the slate mode for the specified HDMI output
TrigCEC		●	Triggers the specified command over the specified HDMI output
TrigRS232		●	Triggers the specified command over the desired RS-232 port.
Type	●	●	Displays the device type
Version	●	●	Displays the firmware version
VideoActiveInput		●	Displays the active input for the specified HDMI output
VideoActiveStatus		●	Displays the status of the specified HDMI output
VideoAspect		●	Sets the aspect ratio for the specified HDMI output
VideoBackupInput		●	Sets the backup input for the specified HDMI output
VideoBackupMode		●	Sets the backup mode for the specified HDMI output
VideoDestIP	●		Sets the video destination IP address for the specified session
VideoDestPort	●		Sets the video destination IP port for the specified session
VideoEnable	●		Enable or disable the video for the specified session
VideoEncoder	●		Sets the encoder input for the specified session
VideoFECColumns	●		Sets the number of the FEC columns for the specified session
VideoFECEnable	●		Enable or disable FEC for the specified session
VideoFECRows	●		Sets the number of the FEC rows for the specified session
VideoInput		●	Sets the video input to the specified HDMI output
VideoRes		●	Sets the video resolution of the specified HDMI output
VideoToBackup		●	Assigns the active video input to become the backup video input
VideoToPrimary		●	Assigns the active video input to become the primary video input
VideoWallArray		●	Sets the video wall size in rows and columns for the specified HDMI output
VideoWallEnable		●	Enable or disable the video wall for the specified HDMI output
VideoWallPos		●	Sets the video wall position in rows/columns for the specified HDMI output
VideoWallSize		●	Sets the total video wall size, in pixels, for the specified HDMI output
VolumeBtn	●		Sends the volume-up or volume-down command

## 8021xMode

Sets the 802.1x mode for the specified interface. Use the `sta` argument to display the current setting.



**WARNING:** Connecting an 802.1X-enabled encoder to a network without an active or operational authentication server, will result in an encoder that does not function until the expected message is returned from a RADIUS server. If it is unclear as to whether the network uses 802.1X authentication, consult the IT administrator for assistance.

### Syntax

```
8021xModeX Y
```

Parameter	Description	Range
X	Interface	0, 1
Y	Mode	none, PEAP/MSCHAPv2, EAP-TLS, sta

### Example

```
8021xMode1 EAP-TLS
```

### Feedback

```
8021xMode1 EAP-TLS set
```

## AnalogPowerEnable

Enable or disable the analog power for the specified HDMI output. Use the `sta` argument to display the current setting.

### Syntax

```
AnalogPowerEnableX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	State	on, off, sta

### Example

```
AnalogPowerEnable1 on
```

### Feedback

```
AnalogPowerEnable1 on set
```

### AnalogPowerStatus

Displays the status of the analog output for the specified HDMI output port.

#### Syntax

```
AnalogPowerStatusX
```

Parameter	Description	Range
X	HDMI output	1, 2

#### Example

```
AnalogPowerStatus1
```

#### Feedback

```
AnalogPowerStatus1 active
```

### AudioActiveInput

Displays the active audio input for the specified HDMI output.

#### Syntax

```
AudioActiveInputX
```

Parameter	Description	Range
X	HDMI output	1, 2

#### Example

```
AudioActiveInput1
```

#### Feedback

```
AnalogInputStatus1 3
```

### AudioActiveStatus

Displays the audio status for the specified HDMI output.

#### Syntax

```
AudioActiveStatusX
```

Parameter	Description	Range
X	HDMI output	1, 2

#### Example

```
AudioActiveStatus1
```

#### Feedback

```
AudioActiveStatus1 Inactive
```

### AudioBackupInput

Sets the backup audio input for the specified HDMI output. Use the sta argument to display the current setting.

#### Syntax

```
AudioBackupInputX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	Audio backup input	1 ... 4

#### Example

```
AudioBackupInput1 4
```

#### Feedback

```
AudioBackupInput1 4 set
```

### AudioBackupMode

Sets the backup audio mode for the specified HDMI output. Use the sta argument to display the current setting.

#### Syntax

```
AudioBackupModeX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	Audio backup input	off, join active, join always, sta

#### Example

```
AudioBackupMode2 join active
```

#### Feedback

```
AudioBackupMode2 join active set
```



### AudioDestIP

Sets the destination audio IP address for the specified session. Note that the session range differs between single-channel and dual-channel encoders. Use the `sta` argument to display the current setting.

#### Syntax

```
AudioDestIPX
```

Parameter	Description	Range
X	Session	1 ... 6 (dual-channel encoders) 1, 2 (single-channel encoders)
Y	IP address	0 ... 255 per byte

#### Example

```
AudioDestIP1 192.168.11.10
```

#### Feedback

```
AudioDestIP1 192.168.11.10 set
```

### AudioDestPort

Sets the destination audio port for the specified session. Note that the session range differs between single-channel and dual-channel encoders. Use the `sta` argument to display the current setting.

#### Syntax

```
AudioDestPortX Y
```

Parameter	Description	Range
X	Session	1 ... 6 (dual-channel encoders) 1, 2 (single-channel encoders)
Y	Port	0 ... 65535

#### Example

```
AudioDestPort1 1100
```

#### Feedback

```
AudioDestPort1 1100 set
```

### AudioEnable

Enable or disable the audio for the specified session. Note that the session range differs between single-channel and dual-channel encoders. Use the sta argument to display the current setting.

#### Syntax

```
AudioEnableX Y
```

Parameter	Description	Range
X	Session	1 ... 6 (dual-channel encoders) 1, 2 (single-channel encoders)
Y	State	on, off, sta

#### Example

```
AudioEnable2 on
```

#### Feedback

```
AudioEnable2 on set
```

### AudioInput

Sets the audio input for the specified HDMI output. Use the sta argument to display the current setting.

#### Syntax

```
AudioInputX
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	Audio input	1 ... 4

#### Example

```
AudioInput1 3
```

#### Feedback

```
AudioInput1 3 set
```

## AudioMute

Enable or disable muting on the specified HDMI output. Use the `sta` argument to display the current setting.

### Syntax

```
AudioMuteX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	State	on, off, sta

### Example

```
AudioMute1 on
```

### Feedback

```
AudioMute1 on set
```

## AudioSource

Sets the HDMI audio source for the specified session. Note that the session range differs between single-channel and dual-channel encoders. Use the `sta` argument to display the current setting.

### Syntax

```
AudioSourceX Y
```

Parameter	Description	Range
X	Session	1 ... 6 (dual-channel encoders) 1, 2 (single-channel encoders)
Y	HDMI audio source	1, 2, sta

### Example

```
AudioSource4 2
```

### Feedback

```
AudioSource4 2
```

### AudioToBackup

Switches the active audio input, for the specified HDMI output, to the backup audio input. Before executing this command, the audio backup must be set using the AudioBackupMode command.

#### Syntax

```
AudioToBackupX
```

Parameter	Description	Range
X	HDMI output	1, 2

#### Example

```
AudioToBackup1
```

#### Feedback

```
AudioToBackup1 set
```

### AudioToPrimary

Switches the active audio input, for the specified HDMI output, to the primary audio input. Before executing this command, the audio backup must be set using the AudioBackupMode command.

#### Syntax

```
AudioToBackupX
```

Parameter	Description	Range
X	HDMI output	1, 2

#### Example

```
AudioToPrimary1
```

#### Feedback

```
AudioToPrimary1 set
```

## AudioVolume

Sets the output volume on the specified HDMI output. Use the `sta` argument to display the current setting.

### Syntax

```
AudioVolumeX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	Level	0 ... 15

### Example

```
AudioVolume2 10
```

### Feedback

```
AudioVolume2 10 set
```

## AuxBidirectional

Enables bidirectional data transfer on the Aux channel (IR / RS-232) for the specified session. Note that the session range differs between single-channel and dual-channel encoders. Use the `sta` argument to display the current setting.

### Syntax

```
AuxBidirectionalX Y
```

Parameter	Description	Range
X	Session	1 ... 6 (dual-channel encoders) 1, 2 (single-channel encoders)
Y	State	on, off, sta

### Example

```
AuxBidirectional1 on
```

### Feedback

```
AuxBidirectional1 on set
```

### AuxDecodeInput

Sets the auxiliary input for the specified HDMI output. Use the sta argument to display the current setting.

#### Syntax

```
AuxDecodeInputX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	Input	0 ... 15

#### Example

```
AuxDecodeInput1 7
```

#### Feedback

```
AuxDecodeInput1 7 set
```

### AuxDestIP

Sets the destination IP address for the auxiliary channel for the specified session. Note that the session range differs between single-channel and dual-channel encoders. Use the sta argument to display the current setting.

#### Syntax

```
AuxDestIPX Y
```

Parameter	Description	Range
X	Session	1 ... 6 (dual-channel encoders) 1, 2 (single-channel encoders)
Y	IP address	0 ... 255 per byte

#### Example

```
AuxDestIP3 192.168.11.154
```

#### Feedback

```
AuxDestIP3 192.168.11.154 set
```

### AuxDestPort

Sets the destination port for the auxiliary channel for the specified session. Note that the session range differs between single-channel and dual-channel encoders. Use the `sta` argument to display the current setting.

#### Syntax

```
AuxDestPortX Y
```

Parameter	Description	Range
X	Session	1 ... 6 (dual-channel encoders) 1, 2 (single-channel encoders)
Y	Port	0 ... 65535

#### Example

```
AuxDestPort2 2000
```

#### Feedback

```
AuxDestPort2 2000 set
```

### AuxEnable

Enable or disable the auxiliary channel for the specified session. Note that the session range differs between single-channel and dual-channel encoders. Use the `sta` argument to display the current setting.

#### Syntax

```
AuxEnableX Y
```

Parameter	Description	Range
X	Session	1 ... 6 (dual-channel encoders) 1, 2 (single-channel encoders)
Y	State	on, off, sta

#### Example

```
AuxEnable1 on
```

#### Feedback

```
AuxEnable1 on set
```

### AuxListenPort

Sets the auxiliary channel listening port for bidirectional control for the specified session. Note that the session range differs between single-channel and dual-channel encoders. Use the sta argument to display the current setting.

#### Syntax

```
AuxListenPortX Y
```

Parameter	Description	Range
X	Session	1 ... 6 (dual-channel encoders) 1, 2 (single-channel encoders)
Y	Port	0 ... 65535

#### Example

```
AuxListenPort2 1204
```

#### Feedback

```
AuxListenPort2 1204 set
```

### AuxSource

Sets the serial port source for the specified session. Note that the session range differs between single-channel and dual-channel encoders. Use the sta argument to display the current setting.

#### Syntax

```
AuxSourceX Y
```

Parameter	Description	Range
X	Session	1 ... 6 (dual-channel encoders) 1, 2 (single-channel encoders)
Y	Serial port	1, 2

#### Example

```
AuxSource1 2
```

#### Feedback

```
AuxSource1 2 set
```



### Broadcast

Enable or disable broadcast mode. Use the sta argument to display the current setting.

#### Syntax

```
Broadcast X
```

Parameter	Description	Range
X	State	on, off, sta

#### Example

```
AuxListenPort2 1204
```

#### Feedback

```
AuxListenPort2 1204 set
```

### DisplayBtn

Sends the specified command to the desired HDMI input.

#### Syntax

```
DisplayBtnX Y
```

Parameter	Description	Range
X	HDMI input	1, 2
Y	Command	on, off, toggle

#### Example

```
DisplayBtn1 on
```

#### Feedback

```
DisplayBtn1 on set
```

### Descramble

*This command is only available through SSH.* Enables or disables descrambling on the specified HDMI output. Use the sta argument to display the current setting.

#### Syntax

```
DescrambleX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	State	on, off, sta

#### Example

```
DescrambleKey1 on
```

#### Feedback

```
DescrambleKey1 on set
```

## DescrambleKey

*This command is only available through SSH.* Sets the descrambling key for the specified HDMI output.

### Syntax

```
DescrambleKeyX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	Key	String

### Example

```
DescrambleKey1 e39f2de467ce7c9c
```

### Feedback

```
DescrambleKey1 e39f2de467ce7c9c set
```

## EDIDMSet

Sets the EDID for the specified HDMI input. Use the list argument to display a list of available EDID settings. Note that the list of available EDID settings will depend upon the current video mode. Use the sta argument to display the current setting.

### Syntax

```
EDIDMSetX Y
```

Parameter	Description	Range
X	HDMI input	1, 2
Y	EDID	(Refer to tables below)

### Example

```
EDIDMSet1 1080p 2ch
```

### Feedback

```
EDIDMSet1 1080p 2ch set
```

### Video mode only

#### Available EDID selections

Default - Video Mode	1080P MCH	720P DD
Default - Video Mode (No HDR)	4K60 MCH	720P 2CH
1080P 2CH	4K60 PCM-MCH	
1080P DD	460 LPCM 2CH	

### PC application mode only

#### Available EDID selections

Default	1080P MCH	2160P 2CH
1080P DVI	1280x800 RGB DVI PCWXGADVI	2160P MCH
1080P 2CH	1280x800 RGB PCWXGA2CH	2560x1600 2CH
1080P DD	1366x768 RGB TVWXGA2CH	2560x1600 MCH

### EnableAES67

Enables or disables AE67 audio on the specified encoder session. When the command is run on the decoder, it is used to enable or disable AES67 on the specified HDMI output. Use the sta argument to display the current setting.

#### Syntax

```
EnableAES67X Y
```

Parameter	Description	Range
X	Session (encoder only) HDMI output (decoder only)	Integer value (session number, encoder only) 1, 2 (HDMI output, decoder only)
Y	State	on, off, sta

#### Example

```
EnableAES672 on
```

#### Feedback

```
EnableAES672 on set
```

### EncoderBitDepth

Sets the bit depth for the specified encoder. Use the sta argument to display the current setting.

#### Syntax

```
EncoderBitDepthX Y
```

Parameter	Description	Range
X	Encoder	1, 2
Y	Bit depth	8, 10, 12

#### Example

```
EncoderBitDepth1 10
```

#### Feedback

```
EncoderBitDepth1 10 set
```

### EncoderBitRate

Sets the bit rate for the specified encoder. This value is in megabits-per-second (Mbps). The recommended bandwidth for 1080p60 video is 450 Mbps, and 4K/UHD streams should be set to 900 Mbps. Setting this field below these recommended values will result in lower-quality video. Use the `sta` argument to display the current setting.

#### Syntax

```
EncoderBitRateX Y
```

Parameter	Description	Range
X	Encoder	1, 2
Y	Bit rate	Integer value

#### Example

```
EncoderBitDepth1 10
```

#### Feedback

```
EncoderBitDepth1 10 set
```

### EncoderInput

Sets the input for the specified encoder. Use the `sta` argument to display the current setting.

#### Syntax

```
EncoderInputX Y
```

Parameter	Description	Range
X	Encoder	1, 2
Y	Input	HDMI1, HDMI2, VidGen1, VidGen2, sta

#### Example

```
EncoderInput2 HDMI1
```

#### Feedback

```
EncoderInput2 HDMI1 set
```

## EncoderSubSample

Sets the chroma subsampling value for the specified encoder. Use the sta argument to display the current setting.

### Syntax

```
EncoderSubSampleX Y
```

Parameter	Description	Range
X	Encoder	1, 2
Y	Subsampling value	444, 422, 420, sta

### Example

```
EncoderSubSample1 420
```

### Feedback

```
EncoderSubSample1 420 set
```

## FastSwitching

Enables or disables Fast Switching on the decoder. Use the sta argument to display the current setting.

### Syntax

```
FastSwitchingX Y
```

Parameter	Description	Range
X	HDMI output	1 (single-channel decoders) 1, 2 (dual-channel decoders)
Y	State	on, off, sta

### Example

```
FastSwitching1 on
```

### Feedback

```
FastSwitching1 on set
```

### FrontPanelLock

Locks or unlocks the buttons on the front panel of the unit. When the buttons on the front panel are lock, the LED backlight on each button will be disabled. Use the sta argument to display the current setting.

#### Syntax

```
FrontPanelLock X
```

Parameter	Description	Range
X	Status	lock, unlock

#### Example

```
FrontPanelLock lock
```

#### Feedback

```
FrontPanelLock lock set
```

### HDCPSet

Sets the version of HDCP for the specified HDMI input. Use the sta argument to display the current setting.

#### Syntax

```
HDCPSetX Y
```

Parameter	Description	Range
X	HDMI input	1, 2
Y	HDCP version	off, 1.4, 2.2, sta

#### Example

```
HDCPSet HDMI1 2.2
```

#### Feedback

```
HDCPSet HDMI1 2.2 set
```

### Help

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

#### Syntax

```
Help X
```

Parameter	Description	Range
X	Command name (optional)	Command

#### Example

```
help
```

#### Feedback

```
Help, Quit, IPTimeout, IPQuit, ...
```

## Identify

Flashes the LED indicators on the front panel of the unit for 10 seconds.

### Syntax

```
Identify
```

This command does not require any parameters

### Example

```
Identify
```

### Feedback

```
[none]
```

## Input

Displays whether or not an input signal exists on the specified HDMI input. The sta argument is required.

### Syntax

```
InputX sta
```

Parameter	Description	Range
X	HDMI input	1, 2

### Example

```
Input1 sta
```

### Feedback

```
Input1 yes
```

## InputBtn

Sets the input. This command is identical to pressing the **INPUT** button on the front panel. Use the tog argument to toggle to the opposite input.

### Syntax

```
InputBtn X
```

Parameter	Description	Range
X	Input	1, 2, tog

### Example

```
InputBtn 1
```

### Feedback

```
InputBtn 1 set
```

## IPCFG

Displays IP configuration for the specified interface.

### Syntax

```
IPCFGX
```

Parameter	Description	Range
X	Interface	1, 2

**Example**  
IPCFG1

### Feedback

IP Addr: 10.0.1.110  
 Netmask: 255.255.255.0  
 Gateway: 10.0.1.1  
 IP Port: 23

## IPDHCP

Enable or disable DHCP mode on the specified interface. Use the sta argument to display the current setting.

### Syntax

```
IPDHCPX Y
```

Parameter	Description	Range
X	Interface	1, 2
Y	State	on, off, sta

**Example**  
IPDHCP1 on

### Feedback

IPDHCP1 on set



### IPInputEnable

Enable or disable the specified IP input. Note that the input range differs between single-channel and dual-channel decoders. Use the `sta` argument to display the current setting.

#### Syntax

```
IPInputEnableX Y
```

Parameter	Description	Range
X	Input	1 ... 12 (dual-channel decoders) 1 ... 5 (single-channel decoders)
Y	State	on, off, sta

#### Example

```
IPInputEnable off
```

#### Feedback

```
IPInputEnable off set
```

### IPInputFilterAddr

Sets the filter address for the specified IP input. Note that the input range differs between single-channel and dual-channel decoders. Use the comma delimiter to specify multiple IP addresses. IP addresses cannot be multicast addresses. Use the `sta` argument to display the current setting.

#### Syntax

```
IPInputFilterAddrX Y
```

Parameter	Description	Range
X	Input	1 ... 12 (dual-channel decoders) 1 ... 5 (single-channel decoders)
Y	IP address(es)	0 ... 255 (per octet)

#### Example

```
IPInputFilterAddr1 192.168.11.100, 192.168.11.58
```

#### Feedback

```
IPInputFilterAddr1 192.168.11.100, 192.168.11.58 set
```

## IPInputFilterMode

Sets the mode for filter addresses. Note that the input range differs between single-channel and dual-channel decoders. Use the `sta` argument to display the current setting.

### Syntax

```
IPInputFilterModeX Y
```

Parameter	Description	Range
X	Input	1 ... 12 (dual-channel decoders) 1 ... 5 (single-channel decoders)
Y	Mode	include, exclude, sta

### Example

```
IPInputFilterMode1 exclude
```

### Feedback

```
IPInputFilterMode1 exclude set
```

## IPInputInterface

Sets the interface for the specified IP input. Note that the input range differs between single-channel and dual-channel decoders. Use the `sta` argument to display the current setting.

### Syntax

```
IPInputInterfaceX Y
```

Parameter	Description	Range
X	Input	1 ... 12 (dual-channel decoders) 1 ... 5 (single-channel decoders)
Y	Interface	eth1, eth2, sta

### Example

```
IPInputInterface1 eth2
```

### Feedback

```
IPInputInterface1 eth2 set
```

## IPInputMulticast

Sets the multicast IP address for the specified IP input. Note that the input range differs between single-channel and dual-channel decoders. The multicast address must be specified in dot-decimal notation. Use the `sta` argument to display the current setting.

### Syntax

```
IPInputMulticastX Y
```

Parameter	Description	Range
X	Input	1 ... 12 (dual-channel decoders) 1 ... 5 (single-channel decoders)
Y	IP address	0 ... 255 (per octet)

### Example

```
IPInputMulticast1 226.0.0.10
```

### Feedback

```
IPInputMulticast1 226.0.0.10 set
```

## IPInputPort

Sets the listening port for the specified IP input. Note that the input range differs between single-channel and dual-channel decoders. Use the `sta` argument to display the current setting.

### Syntax

```
IPInputPortX Y
```

Parameter	Description	Range
X	Input	1 ... 12 (dual-channel decoders) 1 ... 5 (single-channel decoders)
Y	Port	0 ... 65535, <code>sta</code>

### Example

```
IPInputPort1 2012
```

### Feedback

```
IPInputPort1 2012 set
```

## IPLogin

Enable or disable the authentication for Telnet and/or NVT. Use the `sta` argument to display the current setting. If the authentication for Network is enabled and the other Network is disabled, then a value of `mixed` will be returned.

### Syntax

```
IPLoginX Y
```

Parameter	Description	Range
X	Interface	1, 2
Y	Mode	on, off, sta

### Example

```
IPLogin on
```

### Feedback

```
IPLogin on set
```

## IPPort

Sets the Telnet listening port for the specified interface. Use the `sta` argument to display the current setting.

### Syntax

```
IPPortX Y
```

Parameter	Description	Range
X	Interface	1, 2
Y	Port	0 ... 65535, sta

### Example

```
IPInputPort1 2012
```

### Feedback

```
IPInputPort1 2012 set
```

## IPQuit

Exits the CLI.

### Syntax

```
IPQuit
```

**This command does not require any parameters**

### Example

```
IPQuit
```

### Feedback

```
[none]
```

### IPStatic

Sets the static IP address for the specified interface. Once a static IP address is assigned to the interface, the network mode for that interface will automatically be set to **Static**. Add a space between the IP address, subnet mask, and gateway arguments.

#### Syntax

```
IPStaticW X Y Z
```

Parameter	Description	Range
W	Interface	1, 2
X	IP address	0 ... 255 (per octet)
Y	Subnet mask	0 ... 255 (per octet)
Z	Gateway	0 ... 255 (per octet)

#### Example

```
IPStatic1 192.168.11.154 255.255.255.0 192.168.11.1
```

#### Feedback

```
IPStatic1 192.168.11.154 255.255.255.0 192.168.11.1 set
```

### IPTimeout

Sets the session timeout interval in seconds.

#### Syntax

```
IPTimeout X
```

Parameter	Description	Range
X	Time interval (sec)	Integer value

#### Example

```
IPTimeout 5000
```

#### Feedback

```
IPTimeout 5000 set
```

## License

Installs the specified license key. Execute this command without an argument to display the installed licenses.

### Syntax

```
License X:Y
```

Parameter	Description	Range
X	Key type	String
Y	Key	String

### Example

```
License 4K:e5d533...
```

### Feedback

```
License 4K:e5d533... set
```

## Mclear

Resets the unit to empty configuration.

### Syntax

```
Mclear
```

**This command does not require any parameters**

### Example

```
Mclear
```

### Feedback

```
[none]
```

## Mreset

Resets the unit to factory-default settings.

### Syntax

```
Mreset
```

**This command does not require any parameters**

### Example

```
Mreset
```

### Feedback

```
[none]
```

## Quit

Exits the CLI.

### Syntax

```
Quit
```

This command does not require any parameters

### Example

```
Quit
```

### Feedback

[none]

## Reboot

Reboots the nit

### Syntax

```
Quit
```

This command does not require any parameters

### Example

```
Quit
```

### Feedback

[none]

## SapEnable

Enable or disable the Session Announcement Protocol (SAP). Use the sta argument to display the current setting.

### Syntax

```
SapEnable X
```

Parameter	Description	Range
X	State	on, off, sta

### Example

```
SapEnable on
```

### Feedback

SapEnable on set

## SerialBaud

Sets the baud rate for the specified serial port. Use the sta argument to display the current setting.

### Syntax

```
SerialBaudX Y
```

Parameter	Description	Range
X	Serial port	1, 2
Y	Rate	9600, 19200, 38400, 57600, 115200

### Example

```
SerialBaud1 57600
```

### Feedback

```
SerialBaud1 57600 set
```

## SerialData

Sets the number of data bits for the specified serial port. Use the sta argument to display the current setting.

### Syntax

```
SerialDataX Y
```

Parameter	Description	Range
X	Serial port	1, 2
Y	Data bits	6, 7, 8

### Example

```
SerialData1 7
```

### Feedback

```
SerialData1 7 set
```



### SerialDestEnable

Enable or disable bidirectional flow for the specified serial port. Use the sta argument to display the current setting.

#### Syntax

```
SerialDestEnableX Y
```

Parameter	Description	Range
X	Serial port	1, 2
Y	State	on, off, sta

#### Example

```
SerialDestEnable on
```

#### Feedback

```
SerialDestEnable on set
```

### SerialDestIP

Sets the destination IP address for the bidirectional serial port. Use the sta argument to display the current setting.

#### Syntax

```
SerialDestIPX Y
```

Parameter	Description	Range
X	Serial port	1, 2
Y	IP address	0 ... 255 (per octet)

#### Example

```
SerialDestIP1 226.0.0.10
```

#### Feedback

```
SerialDestIP1 226.0.0.10 set
```

### SerialDestPort

Sets the destination port used for the bidirectional serial port. Use the sta argument to display the current setting.

#### Syntax

```
SerialDestPortX Y
```

Parameter	Description	Range
X	Serial port	1, 2
Y	Port	1, 2

#### Example

```
SerialDestPort1 1
```

#### Feedback

```
SerialDestPort1 1 set
```

### SerialInput

Sets the input port for the serial port. Use the sta argument to display the current setting.

#### Syntax

```
SerialInputX Y
```

Parameter	Description	Range
X	Serial port	1, 2
Y	Port	1 ... 12

#### Example

```
SerialPort1 1
```

#### Feedback

```
SerialPort1 1 set
```

## SerialInterface

Sets the interface to the specified serial port. Use the `sta` argument to display the current setting.

### Syntax

```
SerialInterfaceX Y
```

Parameter	Description	Range
X	Serial port	1, 2
Y	Interface	eth1, eth2, sta

### Example

```
SerialInterface1 eth2
```

### Feedback

```
SerialInterface1 eth2 set
```

## SerialMode

Sets the serial mode for the specified serial port. Use the `sta` argument to display the current setting.

### Syntax

```
SerialModeX Y
```

Parameter	Description	Range
X	Serial port	1, 2
Y	Mode	cli, tcp-proxy, output, sta

### Example

```
SerialMode2 tcp-proxy
```

### Feedback

```
SerialMode2 tcp-proxy set
```

### SerialParity

Sets the parity bit for the specified serial port. Use the sta argument to display the current setting.

#### Syntax

```
SerialParityX Y
```

Parameter	Description	Range
X	Serial port	1, 2
Y	Parity bit	none, odd, even, mark, space, sta

#### Example

```
SerialMode1 none
```

#### Feedback

```
SerialMode1 none set
```

### SerialPort

Sets the serial port to the specified port. Use the sta argument to display the current setting.

#### Syntax

```
SerialPortX Y
```

Parameter	Description	Range
X	Serial port	1, 2
Y	Port	not used, serial_port1, serial_port2, sta

#### Example

```
SerialMode1 serial_port1
```

#### Feedback

```
SerialMode1 serial_port1 set
```

## SerialStop

Sets the number of stop bits for the specified serial port. Use the sta argument to display the current setting.

### Syntax

```
SerialStopX Y
```

Parameter	Description	Range
X	Serial port	1, 2
Y	Stop bits	1, 1.5, 2, sta

### Example

```
SerialStop2 1
```

### Feedback

```
SerialStop2 1 set
```

## SessionScramble

*This command is only available when using SSH.* Enables or disables scrambling for the specified session. Use the sta argument to return the current setting.

### Syntax

```
SessionScrambleX Y
```

Parameter	Description	Range
X	Session	1 ... 6
Y	State	on, off, sta

### Example

```
SessionScramble1 on
```

### Feedback

```
SessionScramble1 on set
```

### SessionScrambleKey

*This command is only available when using SSH.* Sets the scrambling key for the specified session. Use the sta argument to return the current setting.

#### Syntax

```
SessionScrambleKeyX Y
```

Parameter	Description	Range
X	Session	1 ... 6
Y	Key	String

#### Example

```
SessionScrambleKey2 df3d7cdc88584f23
```

#### Feedback

```
SessionScrambleKey2 df3d7cdc88584f23 set
```

### SetCmd

Specifies the command to be sent over RS-232. The command data must be enclosed in brackets and should be terminated with a \r.

#### Syntax

```
SetCmd X[Y]
```

Parameter	Description	Range
X	Command	on, off, vol+, vol-
Y	Command string	String

#### Example

```
SetCmd on[a6 00 00 10 32 4a...]
```

#### Feedback

```
SetCmd on[a6 00 00 10 32 4a...] set
```

### SlateLogo

Sets the slate logo for the specified HDMI output. The second parameter is the name given to the logo, when it is uploaded to the unit. Use the sta argument to display the current setting.

#### Syntax

```
SlateLogoX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	Slate logo	String

#### Example

```
SlateLogo1 test
```

#### Feedback

```
SlateLogo1 test set
```

### SlateMode

Sets the slate mode for the specified HDMI output. Use the sta argument to display the current setting.

#### Syntax

```
SlateModeX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	Mode	off, auto, manual, sta

#### Example

```
SlateMode1 manual
```

#### Feedback

```
SlateMode1 manual set
```

### TrigCEC

Triggers the CEC command on the specified HDMI output.

#### Syntax

```
TrigCECX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	Command	on, off, vol+, vol-

#### Example

TrigCEC2 vol+

#### Feedback

TrigCEC2 vol+ set

### TrigRS232

Triggers the RS-232 command on the specified RS-232 port.

#### Syntax

```
TrigRS232X Y
```

Parameter	Description	Range
X	RS-232 port	1, 2
Y	Command	on, off, vol+, vol-

#### Example

TrigRS23231 vol-

#### Feedback

TrigRS23231 vol-



## Type

Displays the device type.

### Syntax

```
Type
```

This command does not require any parameters

### Example

```
Type
```

### Feedback

```
at-omni-112
```

## Version

Displays the firmware version. The argument is optional and provides additional information.

### Syntax

```
VersionX
```

Parameter	Description	Range
X	Explicit type (optional)	software, fpga

### Example

```
Version
```

### Feedback

```
1.2.1
```

## VideoActiveInput

Displays the active input for the specified HDMI output.

### Syntax

```
VideoActiveInputX
```

Parameter	Description	Range
X	HDMI output	1, 2

### Example

```
VideoActiveInput1
```

### Feedback

```
VideoActiveInput1 1
```

### VideoActiveStatus

Displays the status of the specified HDMI output. If no video input is detected, then Inactive is returned.

#### Syntax

```
VideoActiveStatusX
```

Parameter	Description	Range
X	HDMI output	1, 2

#### Example

```
VideoActiveStatus1
```

#### Feedback

```
VideoActiveStatus1 active
```

### VideoAspect

Sets the aspect ratio for the specified HDMI output. Use the sta argument to display the current setting.

#### Syntax

```
VideoAspectX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	Aspect ratio	keep, fullscreen, 16:9, 16:10, 4:3, sta

#### Example

```
VideoAspect1 16:10
```

#### Feedback

```
VideoAspect1 16:10 set
```

### VideoBackupInput

Sets the backup input for the specified HDMI output. Use the sta argument to display the current setting.

#### Syntax

```
VideoBackupInputX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	IP input	1 ... 12, sta

#### Example

```
VideoBackupInput1 7
```

#### Feedback

```
VideoBackupInput1 7 set
```

### VideoBackupMode

Sets the backup mode for the specified HDMI output. Use the sta argument to display the current setting.

#### Syntax

```
VideoBackupInputX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	Mode	off, join, active, join always, sta

#### Example

```
VideoBackupMode1 join active
```

#### Feedback

```
VideoBackupMode1 join active set
```

## VideoDestIP

Sets the video destination IP address for the specified session. Note that the session range differs between single-channel and dual-channel encoders. Use the `sta` argument to display the current setting.

### Syntax

```
VideoDestIPX Y
```

Parameter	Description	Range
X	Session	1 ... 6 (dual-channel encoders) 1, 2 (single-channel encoders)
Y	IP address	0 ... 255 (each octet)

### Example

```
VideoDestIP1 226.0.0.1
```

### Feedback

```
VideoDestIP1 226.0.0.1 set
```

## VideoDestPort

Sets the video destination IP port for the specified session. Note that the session range differs between single-channel and dual-channel encoders. Use the `sta` argument to display the current setting.

### Syntax

```
VideoDestPortX Y
```

Parameter	Description	Range
X	Session	1 ... 6 (dual-channel encoders) 1, 2 (single-channel encoders)
Y	Port	0 ... 65535

### Example

```
VideoDestPort2 1000
```

### Feedback

```
VideoDestPort2 1000 set
```

## VideoEnable

Enable or disable the video for the specified session. Note that the session range differs between single-channel and dual-channel encoders. Use the sta argument to display the current setting.

### Syntax

```
VideoEnableX Y
```

Parameter	Description	Range
X	Session	1 ... 6 (dual-channel encoders) 1, 2 (single-channel encoders)
Y	State	on, off, sta

### Example

```
VideoEnable2 off
```

### Feedback

```
VideoEnable2 off set
```

## VideoEncoder

Sets the encoder input for the specified session. Note that the session range differs between single-channel and dual-channel encoders. Use the sta argument to display the current setting.

### Syntax

```
VideoEncoderX Y
```

Parameter	Description	Range
X	Session	1 ... 6 (dual-channel encoders) 1, 2 (single-channel encoders)
Y	Input	1, 2

### Example

```
VideoEncoder1 2
```

### Feedback

```
VideoEncoder1 2 set
```

### VideoFECColumns

Sets the number of FEC columns for the specified session. Note that the session range differs between single-channel and dual-channel encoders. Use the sta argument to display the current setting.

#### Syntax

```
VideoFECColumnsX Y
```

Parameter	Description	Range
X	Session	1 ... 6 (dual-channel encoders) 1, 2 (single-channel encoders)
Y	FEC columns	Integer

#### Example

```
VideoFECColumns1 4
```

#### Feedback

```
VideoFECColumns1 4 set
```

### VideoFECEnable

Enable or disable FEC for the specified session. Note that the session range differs between single-channel and dual-channel encoders. Use the sta argument to display the current setting.

#### Syntax

```
VideoFECColumnsX Y
```

Parameter	Description	Range
X	Session	1 ... 6 (dual-channel encoders) 1, 2 (single-channel encoders)
Y	FEC columns	Integer

#### Example

```
VideoFECColumns1 4
```

#### Feedback

```
VideoFECColumns1 4 set
```

## VideoFECRows

Sets the number of FEC rows for the specified session. Note that the session range differs between single-channel and dual-channel encoders. Use the `sta` argument to display the current setting. Refer to the OmniStream User Manuals for more information on FEC.

```
Syntax
VideoFECRowsX Y
```

Parameter	Description	Range
X	Session	1 ... 6 (dual-channel encoders) 1, 2 (single-channel encoders)
Y	FEC rows	Integer

**Example**  
VideoFECRows1 4

**Feedback**  
VideoFECRows1 4 set

## VideoInput

Sets the video input to the specified HDMI output. Note that the input range differs between single-channel and dual-channel decoders. The `not used`, `generator`, and `sta` arguments are available for both single-channel and dual-channel decoders. Use the `sta` argument to display the current setting.

```
Syntax
VideoInputX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	IP input	ip_input1 ... ip_input12 (dual-channel decoders) ip_input1 ... ip_input5 (single-channel decoders) not used, generator, sta (all decoders)

**Example**  
VideoInput2 ip\_input3

**Feedback**  
VideoInput2 ip\_input3 set

## VideoRes

Sets video resolution of the specified HDMI output. Use the sta argument to display the current setting.

### Syntax

```
VideoRowsX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	Output resolution	Integer (see table below)

### Example

```
VideoRes2 4
```

### Feedback

```
VideoRes2 set
```

If Input is selected, then no scaling will be applied to the output. Select Auto to use the EDID of the sink device to determine the output resolution.

Resolutions	
Input	1440x1050
Auto	1440x900
4096x2160	1280x1024
3840x2160	1280x800
1920x1200	1280x768
1920x1080	1280x720
1680x1050	1024x768
1600x900	



### VideoToBackup

Assigns the active video input to become the backup video input.

#### Syntax

```
VideoToBackup X
```

Parameter	Description	Range
X	HDMI output	1, 2

#### Example

VideoToBackup 2

#### Feedback

VideoToBackup 2 set

### VideoToPrimary

Assigns the active video input to become the primary video input.

#### Syntax

```
VideoToPrimary X
```

Parameter	Description	Range
X	HDMI output	1, 2

#### Example

VideoToPrimary 2

#### Feedback

VideoToPrimary 2 set

### VideoWallArray

Sets the video wall size in rows and columns for the specified HDMI output. Use the sta argument, in place of the second and third parameters, to display the current setting.

#### Syntax

```
VideoWallArrayX Y Z
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	Video wall rows	Integer
Z	Video wall columns	Integer

#### Example

```
VideoWallArray1 2 2
```

#### Feedback

```
VideoWallArray1 2 2 set
```

### VideoWallEnable

Enable or disable the video wall for the specified HDMI output. Use the sta argument to display the current setting.

#### Syntax

```
VideoWallEnableX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	State	on, off, sta

#### Example

```
VideoWallEnable1 on
```

#### Feedback

```
VideoWallEnable1 on set
```

## VideoWallPos

Sets the video wall position in rows and columns for the specified HDMI output. Use the sta argument, in place of the second and third parameters, to display the current setting.

### Syntax

```
VideoWallPosX Y Z
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	X-position	Integer
Z	Y-position	Integer

### Example

```
VideoWallPos1 1 1
```

### Feedback

```
VideoWallPos1 1 1
```

## VideoWallSize

Sets the total video wall size, in pixels, for the specified HDMI output. Use the sta argument to display the current setting.

### Syntax

```
VideoWallSizeX Y
```

Parameter	Description	Range
X	HDMI output	1, 2
Y	Width in pixels	Integer
Z	Height in pixels	Integer

### Example

```
VideoWallSize1 3840 2160
```

### Feedback

```
VideoWallSize1 3840 2160 set
```

## VolumeBtn

Sends the volume-up or volume-down command. Volume is incremented or decremented by 1, each time the command is executed.

### Syntax

```
VolumeBtn X
```

Parameter	Description	Range
X	Volume	up, down

### Example

VolumeBtn up

### Feedback

VolumeBtn up

