



**OMEGA4K / UHD**  
**3x2 Matrix Switcher**  
**for HDMI and USB-C with HDMI Outputs**

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Application Programming Interface

## Version Information

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Version	Release Date	Notes
1	Dec 2018	Release
2	Aug 2019	Added System sta and TrigCEC commands
3	Dec 2019	Removed System sta and TrigCEC commands Added IP802.1x RepCmdTime, and RepeatCmd

## Commands

The following tables provide an alphabetical list of commands available on the AT-OME-SW32.

Commands can be sent using RS-232 or Telnet.

There should be a 0.5 second delay between each command sent to the unit.

Default port for Telnet is 23.

Each command is case sensitive, do not change: capitalization, spacing, or lettering.

Each command is terminated with a carriage return.

If the command fails or is incorrect the feedback should be “Command FAILED:” followed by the sent command.



**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
Blink	Enable/Disable blinking of the front panel POWER LED
CommaWait	Enable/Disable a comma adding a 5 second delay between commands
DispBtn	Sets the command triggered through display control (set in the webGUI)
InputStatus	Displays the status for each input
IP802.1x	Sets the 802.1x security status
IPCFG	Displays IP address configuration
IPDHCP	Turns DHCP on / off
IPStatic	Sets a static IP address
Lock	Locks the buttons on the front panel
LRAUD	Turns on/off analog audio output
Mreset	Sets the unit back to default settings
PWOFF	Execute this command to power-off the unit
PWON	Execute this command to power-on the unit
PWSTA	Displays the power state of the unit
RepCmdTime	Sets how many times a display command is repeated when repeat is enabled
RepeatCmd	Enables/disables display command repeat
RS232zone	Displays the routing state of the unit
Status	Displays the routing state of the unit
Type	Displays the model of the unit
Unlock	Unlocks the buttons on the front panel
Version	Displays the current firmware version of the unit
VOUTMute	Mutes/Unmutes audio output volume
x?\$	Mutes/Unmutes AV signals for the specified output channel
x?AVx&	Switch a specific input to a specific output

## Blink

Enable/Disable blinking of the front panel POWER LED.

### Syntax

Blink **X**

Parameter	Description	Range
<b>X</b>	Value	on, off, sta

### Example

Blink on

### Feedback

Blink on

## CommaWait

Enable/Disable a comma adding a 5 second delay between commands. Default is on.

### Syntax

CommaWait **X**

Parameter	Description	Range
<b>X</b>	Value	on, off, sta

### Example

CommaWait on

### Feedback

CommaWait on

## DispBtn

Sets the command triggered through display control (set in the webGUI).

### Syntax

DispBtn **X**

Parameter	Description	Range
<b>X</b>	Setting	on, off, tog, mute, vol+, vol-, sta

### Example

DispBtn on

### Feedback

DispBtn on

## InputStatus

Displays the status for each input.

### Syntax

InputStatus

### Examples

InputStatus

### Feedback

InputStatus 011



**NOTE:** The feedback will display channel status: 0 is no signal detected and 1 is signal detected.

### IP802.1x

Sets the 802.1x security status.

#### Syntax

```
IP802.1x ?
```

Parameter	Description	Range
?	Value	disable, PEAP, TTLS, TLS, sta

#### Example

```
IP802.1x sta
```

#### Feedback

```
IP802.1x TTLS
```

### IPCFG

Displays the current network settings for the unit.

#### Syntax

```
IPCFG
```

#### Example

```
IPCFG
```

#### Feedback

```
IP Addr 192.168.11.196
Netmask 255.255.255.0
Gateway 192.168.11.254
IP Port 23
```

### IPDHCP

Turns DHCP on / off. Default is on.

#### Syntax

```
IPDHCP X
```

Parameter	Description	Range
X	Value	on, off, sta

#### Example

```
IPDHCP on
```

#### Feedback

```
IPDHCP on
```

## IPStatic

Sets a static IP address.

### Syntax

IPStatic **X Y Z**

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

## Lock

Locks the front panel of the matrix so no buttons are active.

### Syntax

Lock

### Example

Lock

### Feedback

Lock

## LRAUD

Turns on/off analog audio output. Default is on.

### Syntax

LRAUD **X**

Parameter	Description	Range
X	Value	on, off, sta

### Example

LRAUD sta

### Feedback

LRAUD on

## Mreset

Sets matrix back to the default settings.

### Syntax

MReset

### Example

Mreset

### Feedback

Mreset

## PWOFF

Turns the unit off. Front panel LED will illuminate red when off.

```
Syntax
PWOFF
```

**Example**  
PWOFF

**Feedback**  
PWOFF

## PWON

Turns the unit on. Front panel LED will illuminate blue when on.

```
Syntax
PWON
```

**Example**  
PWON

**Feedback**  
PWON

## PWSTA

Displays the power status of the matrix.

```
Syntax
PWSTA
```

**Example**  
PWSTA

**Feedback**  
PWON

## RepCmdTime

Sets how many times a display command is repeated when repeat is enabled.

```
Syntax
RepeatCmd X
```

Parameter	Description	Range
X	Amount	2 - 4, sta

**Example**  
RepeatCmd sta  
RepeatCmd 3

**Feedback**  
RepeatCmd 2  
RepeatCmd 3

## RepeatCmd

Enables (on) / disables (off) display command repeat.

### Syntax

```
RepeatCmd X
```

Parameter	Description	Range
X	State	on, off, sta

### Example

```
RepeatCmd sta
```

### Feedback

```
RepeatCmd on
```

## RS232zone

Use to trigger the SW32's RS-232 port to send the specified command to the display.

### Syntax

```
RS232zone[X]
```

Parameter	Description	Range
X	Command	String

### Example

```
RS232zone[VOL23]
```

### Feedback

```
RS232zone[VOL23]
```

## Status

Displays the current route status.

### Syntax

```
Status X
```

### Example

```
Status
```

### Feedback

```
x3Vx1, x1Vx2
```

## Type

Brings up the model information.

### Syntax

```
Type
```

### Example

```
Type
```

### Feedback

```
AT-OME-SW32
```



## Unlock

Unlocks the front panel of the matrix, enabling the buttons again.

Syntax
Unlock

**Example**  
Unlock

**Feedback**  
Unlock

## Version

Brings up the current firmware version.

Syntax
Version

**Example**  
Version

**Feedback**  
1.0.00

## VOUTMute

Mutes/unmutes the output audio channels.

Syntax
VOUTMuteX Y

Parameter	Description	Range
X	Channel	1 - 2
Y	Value	on, off, sta

**Example**  
VOUTMute1 sta

**Feedback**  
VOUTMute1 on

## x?\$

Mutes/Unmutes AV signals for the specified output channel.

Syntax
x?\$ Y

Parameter	Description	Range
X	Output	1 - 2
Y	Variable	on, off, sta

**Example**  
x2\$ sta

**Feedback**  
x2\$ on

## x?AVx&

Switch audio and video input to output.

### Syntax

x?AVx&

Parameter	Description	Range
?	Input	1 - 3
&	Output	1 - 2

### Example

x1AVx3

### Feedback

x1AVx3

