



**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

# 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
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
RS232zone	Use to trigger the SW32's RS-232 port to send the specified command to the display
Status	Displays the routing state of the unit
System sta	Displays the current device information such as model number, IP, firmware, hostname, etc
TrigCEC	Triggers the CEC on/off commands for each output
Type	Displays the model of the unit
Unlock	Unlocks the buttons on the front panel
Version	Displays the current firmware version of the unit
VOU TMute	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
X	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
X	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
X	Setting	on, off, tog, 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.

## 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
```

### 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
```

### System sta

Displays the current device information such as model number, IP, firmware, hostname, etc.

#### Syntax

```
System sta
```

#### Example

```
System sta
```

#### Feedback

```
Model: AT-OME-SW32
MAC Addr: B8:98:B0:00:01:A8
Address Type: DHCP
IP Addr: 10.20.20.113
Netmask: 255.255.255.0
Gateway: 10.20.20.1
HTTP Port: 80
Telnet Port: 23
SSH Port: 22
Firmware: 1.1.00
On/Up Time <dd HH:mm:ss>: 11 16:35:55
Hostname: OMESW32-0001A8
```

## TrigCEC

Triggers the CEC on/off commands for each output.

Syntax
TrigCECX Y

Parameter	Description	Range
X	Output port	1 - 2
Y	Value	on, off

### Example

TrigCEC1 off  
TrigCEC2 on

### Feedback

TrigCEC1 off  
TrigCEC2 on

## 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

