JAV-CNTL-H1611

Display Controller

API Command List

RS-232, Telnet and TCP Command Reference

Version 1.0 | October 13, 2026

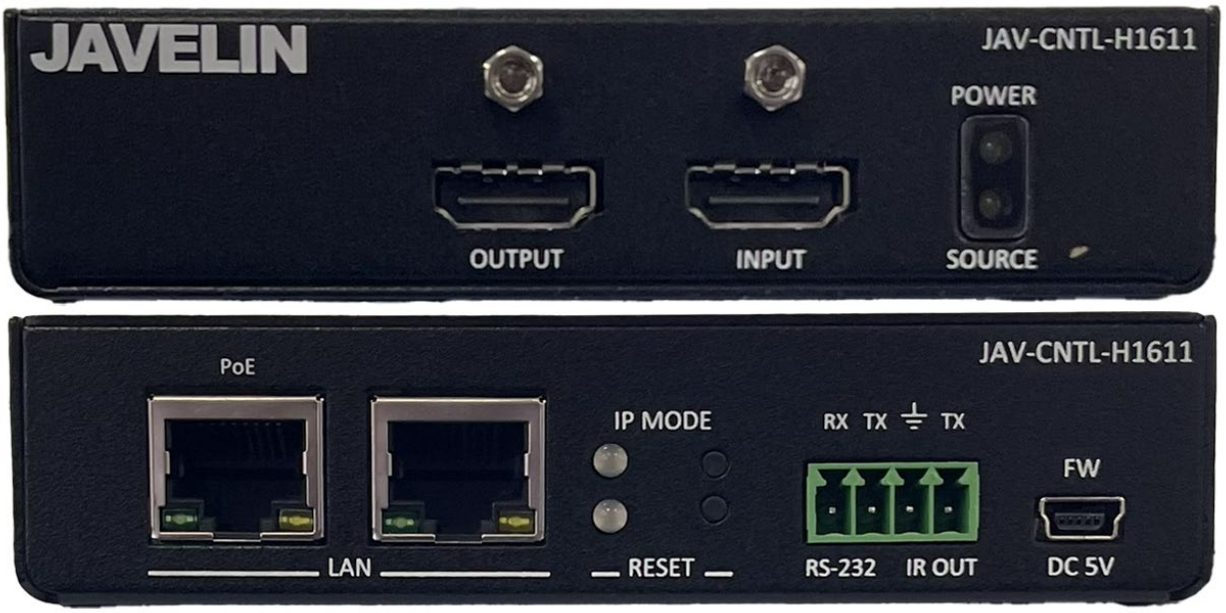


Table of Contents

Version Information **4**
Sales, Marketing & Customer Support 4
Introduction **5**
General 5
Ports 5
Commands **6**
APwrOffTime 7
Blink 7
Broadcast 8
CliIPAddr 9
CliMode 9
CliPass 10
CliPort 10
CliUser 11
CSpara 11
CtlType 12
DispAutoPwr 12
EDIDMSet 12
EDIDOut 14
HDCPSet 14
help 15
IPCFG 15
IPDHCP 16
IPLogin 16
IPPort 17
IPStatic 17
Mreset 18
ProjSWMode 18
ProjWarmUpT 18
RepCmdTime 19
RepeatCmd 20
RHostName 20
SetCmd 21
SHostName 21
System 22
TrigCEC 22
TrigIP 23

TrigRS 23
Type 23
Version 24

Version Information

This section lists document revisions. Update this table whenever the document is revised.

Version	Date	Notes
1.0	October 13, 2026	Initial release.

Sales, Marketing & Customer Support

Contact	Details
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Introduction

General

This document provides an alphabetical list of the commands available for the JAV-CNTL-H1611. Commands are case-sensitive. If a command fails or is entered incorrectly, the feedback is “Command FAILED”. Commands can be sent using RS-232, Telnet, or TCP. Allow a 500 millisecond delay between each command sent to the unit. The default Telnet port is 23. The TCP ports are 9000 and 9001.

> **IMPORTANT:** Each command is terminated with a carriage return (0x0D), and the feedback is terminated with a carriage return and line feed (0x0A).

Ports

The JAV-CNTL-H1611 can communicate directly with its local RS-232 port using a direct TCP socket connection. Refer to the table below for the port assignments. For the port connected to the RS-232 interface, no additional payload is required to transmit data to the device: all data sent to that TCP port is sent bit-for-bit to the RS-232 output. If feedback is required from the RS-232 device, the TCP socket must be kept open. The JAV-CNTL-H1611 does not provide buffer or queuing registers, so any data received on the RS-232 port while the TCP socket connection is closed is lost.

Port	Description
9000	MCU (similar to Telnet)
9001	Local RS-232 port

Example

With a device IP address of 192.168.1.100 and a PJLink projector connected to the RS-232 port:

1. Open a TCP socket to `192.168.1.100:9001` and send the following command string:

```
%1POWR 1\x0D
```

2. The projector responds with the following, using the same socket connection:

```
$1POWR=OK\x0D
```

Commands

Commands are listed alphabetically. Select a command in the table to go to its full description.

Command	Description
APwrOffTime	Sets the auto power-off time interval
Blink	Enables or disables blinking of the POWER LED on the front panel
Broadcast	Enables or disables broadcast mode
CliIPAddr	Sets the IP address of the controlled device
CliMode	Sets the login mode of the controlled device
CliPass	Sets the password for the controlled device
CliPort	Sets the port of the controlled device
CliUser	Sets the username for the controlled device
CSpara	Sets the baud rate, data bits, parity bit, and stop bits for the serial port
CtlType	Sets the control protocol used to communicate with the display
DispAutoPwr	Enables or disables automatic powering of the display
EDIDMSet	Assigns the specified EDID to the INPUT port
EDIDOut	Saves the downstream EDID to the specified memory location
HDCPSet	Sets the HDCP reporting mode of the INPUT port
help	Displays the list of available commands
IPCFG	Displays the current network settings
IPDHCP	Enables or disables DHCP mode
IPLogin	Enables or disables login credentials when starting a Telnet session
IPPort	Sets the Telnet listening port
IPStatic	Sets the static IP address, subnet mask, and gateway
Mreset	Resets the unit to factory-default settings
ProjSWMode	Sets the projector lamp cool-down interval
ProjWarmUpT	Sets the projector lamp warm-up interval
RepCmdTime	Sets the number of times a command is sent
RepeatCmd	Enables or disables the RepCmdTime feature

Command	Description
RHostName	Displays the hostname of the unit
SetCmd	Assigns an RS-232 or IP command string to a display command
SHostName	Sets the hostname of the unit
System	Displays information about the unit
TrigCEC	Sends the specified command to the display over CEC
TrigIP	Sends the specified command to the display over IP
TrigRS	Sends the specified command to the display over RS-232
Type	Displays the model of the unit
Version	Displays the current firmware version

APwrOffTime

Sets the time interval, in seconds, before the command to power off the display is sent, once an A/V signal is no longer detected. Use the sta argument to display the current setting.

Syntax

```
APwrOffTime X
```

Parameter	Description	Range
X	Time interval (seconds)	15 ... 3600, sta

Example

Example	Feedback
APwrOffTime 120	APwrOffTime 120

Blink

Enables or disables blinking of the POWER LED indicator on the front panel. When set to on, the POWER indicator flashes green, and can be used to physically identify the unit on a network. The POWER indicator

flashes until the Blink off command is executed or the unit is rebooted. on = enables blinking; off = disables blinking; sta = displays the current setting. The default setting is off.

Syntax

```
Blink X
```

Parameter	Description	Range
X	State	on, off, sta

Example

Example	Feedback
`Blink on`	`Blink on`

Broadcast

Enables or disables broadcast mode. When set to on, any state change to the JAV-CNTL-H1611 is reflected through RS-232, Telnet, and TCP port 9000. State changes can be caused by changes in the web server, physical connection or disconnection of the source or sink, and other 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	State	on, off, sta

Example

Example	Feedback
`Broadcast on`	`Broadcast on`

CliIPAddr

Sets the IP address of the controlled device (the display). The IP address must be specified in dot-decimal notation. Use the sta argument to display the IP address of the controlled device.

Syntax

```
CliIPAddr X
```

Parameter	Description	Range
X	IP address	0 ... 255 (per byte), sta

Example

Example	Feedback
`CliIPAddr 192.168.1.61`	`CliIPAddr 192.168.1.61`

CliMode

Sets the login mode of the controlled device. login = requires login credentials; non-login = no login credentials required. Use the sta argument to display the current setting.

Syntax

```
CliMode X
```

Parameter	Description	Range
X	Mode	login, non-login, sta

Example

Example	Feedback
`CliMode login`	`CliMode login`

CliPass

Sets the password used to log in to the controlled device. Execute the CliPass command without arguments to display the current password. The default password is password.

Syntax

```
CliPass X
```

Parameter	Description	Range
X	Password	20 characters (max.)

Example

Example	Feedback
`CliPass R3ind33r`	`CliPass R3ind33r`

CliPort

Sets the port used to communicate with the controlled device. Use the sta argument to display the current port. The default port is 23.

Syntax

```
CliPort X
```

Parameter	Description	Range
X	Port	1 ... 65535, sta

Example

Example	Feedback
`CliPort 50`	`CliPort 50`

CliUser

Sets the username used to log in to the controlled device. Execute the CliUser command without arguments to display the current username.

Syntax

```
CliUser X
```

Parameter	Description	Range
X	Username	20 characters (max.)

Example

Example	Feedback
`CliUser BigBoss`	`CliUser BigBoss`

CSpara

Sets the baud rate, data bits, parity bit, and stop bits for the RS-232 port. Each argument must be separated by a comma; no spaces are permitted. Brackets must be used when executing this command. Use the sta argument, with no brackets and a space between the command and the argument, to display the current serial port settings.

Syntax

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

Parameter	Description	Range
W	Baud rate	2400, 4800, 7200, 9600, 14400, 19200, 38400, 57600, 115200, 128000, 230400
X	Data bits	7, 8
Y	Parity bit	0 (None), 1 (Odd), 2 (Even)
Z	Stop bits	1, 2

Example

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

CtlType

Sets the control protocol used to communicate with the display. Use the sta argument to display the current setting.

Syntax

```
CtlType X
```

Parameter	Description	Range
X	Protocol	rs-232, ip, cec, ir, sta

Example

Example	Feedback
`CtlType ip`	`CtlType ip`

DispAutoPwr

Enables or disables automatic powering on and powering off of the display connected to the JAV-CNTL-H1611. Use the sta argument to display the current setting.

Syntax

```
DispAutoPwr X
```

Parameter	Description	Range
X	State	on, off, sta

Example

Example	Feedback
`DispAutoPwr on`	`DispAutoPwr on`

EDIDMSet

Assigns the specified EDID to the INPUT port. The EDID can be one of the 10 internal EDID presets, the default EDID, or a custom EDID stored in one of the two memory locations. default is the default EDID; int1 through

int10 are the EDID presets; save1 and save2 are the memory locations where custom EDID data is stored. The presets are listed in the table below.

Syntax

```
EDIDMSet X
```

Parameter	Description	Range
X	EDID preset	default, int1 ... int10, save1, save2, sta

Example

Example	Feedback
`EDIDMSet int2`	`EDIDMSet int2`

EDID	Description
`default`	Default EDID
`int1`	INT 1080P 3D 2CH
`int2`	INT 1080P 3D DD
`int3`	INT 1080P 3D MCH
`int4`	INT 1080P 2CH
`int5`	INT 4K60 420 2CH
`int6`	INT 4K60 420 MCH
`int7`	INT 4K60 420 HDR 2CH
`int8`	INT 4K60 420 HDR MCH
`int9`	INT 4K60 444 2CH
`int10`	INT 4K60 444 MCH
`save1`	Memory location 1 for storing an EDID
`save2`	Memory location 2 for storing an EDID

EDIDOut

Copies the EDID of the display (sink) connected to the OUTPUT port to the specified memory location.

Syntax

```
EDIDOut X
```

Parameter	Description	Range
X	Memory location	mem1, mem2

Example

Example	Feedback
EDIDOut mem1	EDIDOut mem1

HDCPSet

Sets the HDCP reporting mode of the INPUT port. Some computers send HDCP content if an HDCP-compliant display is detected. on = reports to the source device that the display (sink) is HDCP-compliant; off = reports to the source device that the display (sink) is not HDCP-compliant, so HDCP content is not sent. Setting this value to off does not decrypt HDCP content. Use the sta argument to display the current setting.

Syntax

```
HDCPSet X
```

Parameter	Description	Range
X	State	on, off, sta

Example

Example	Feedback
HDCPSet on	HDCPSet on

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

Example	Feedback
help	APwrOffTime Blink Broadcast CliIPAddr CliMode ...

IPCFG

Displays the current network settings of the JAV-CNTL-H1611.

Syntax

```
IPCFG
```

This command does not require any parameters.

Example

Example	Feedback
IPCFG	IP Addr 192.168.11.176 Netmask 255.255.255.0 Gateway 192.168.11.1 IP Port 23

IPDHCP

Enables or disables DHCP mode on the JAV-CNTL-H1611. on = DHCP mode on; off = DHCP mode off; sta = displays the current setting. If DHCP is disabled, a static IP address must be specified. The default setting is on.

Syntax

```
IPDHCP X
```

Parameter	Description	Range
X	State	on, off, sta

Example

Example	Feedback
IPDHCP on	IPDHCP on

IPLogin

Enables or disables the use of login credentials when starting a Telnet or TCP port 9000 session on the JAV-CNTL-H1611. When set to on, the JAV-CNTL-H1611 prompts for both the username and password; use the same credentials as the web server. on = login credentials required; off = no login required. Use the sta argument to display the current setting. The default setting is on.

Syntax

```
IPLogin X
```

Parameter	Description	Range
X	State	on, off, sta

Example

Example	Feedback
IPLogin off	IPLogin off

IPPort

Sets the TCP/IP (Telnet) listening port of the JAV-CNTL-H1611. The default port is 23. Do not use the following ports: 80 (HTTP), 443 (HTTPS), or 9000 - 9100 (TCP socket ports).

Syntax

```
IPPort X
```

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

Example

Example	Feedback
IPPort 230	IPPort 230

IPStatic

Sets the static IP address, subnet mask, and gateway (router) address of the JAV-CNTL-H1611. Before using this command, DHCP must be disabled; refer to the IPDHCP command. 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

Example	Feedback
IPStatic 192.168.1.112 255.255.255.0 192.168.1.1	IPStatic 192.168.1.112 255.255.255.0 192.168.1.1

Mreset

Resets the JAV-CNTL-H1611 to factory-default settings.

Syntax

```
Mreset
```

This command does not require any parameters.

Example

Example	Feedback
Mreset	Mreset

ProjSWMode

Sets the projector lamp cool-down timer, in seconds. This value specifies the time interval that must elapse, after the display control “off” command is sent, before the display “power on” command can be sent. This prevents the projector from missing a “power on” command while the lamp is cooling. Use the sta argument to display the current setting.

Syntax

```
ProjSWMode X
```

Parameter	Description	Range
X	Time interval (seconds)	10 ... 300, sta

Example

Example	Feedback
ProjSWMode 120	ProjSWMode 120

ProjWarmUpT

Sets the projector lamp warm-up timer, in seconds. During the warm-up interval, the JAV-CNTL-H1611 does not start the auto power-off timer. This value specifies the time interval that must elapse, after the display control

"on" command is sent, before the display "power off" command can be sent. This prevents a "power off" command from being sent while the lamp is warming up. Use the sta argument to display the current setting.

Syntax

```
ProjWarmUpT X
```

Parameter	Description	Range
X	Time interval (seconds)	10 ... 300, sta

Example

Example	Feedback
`ProjWarmUpT 120`	`ProjWarmUpT 120`

RepCmdTime

Sets the number of times a command is sent. This may be required in systems where a command must be transmitted more than once before an acknowledgment is received. Use the sta argument to display the current setting.

Syntax

```
RepCmdTime X
```

Parameter	Description	Range
X	Times to repeat the command	2, 3, 4, sta

Example

Example	Feedback
`RepCmdTime 3`	`RepCmdTime 3`

RepeatCmd

Enables or disables the RepCmdTime feature. Use the sta argument to display the current setting.

Syntax

```
RepeatCmd X
```

Parameter	Description	Range
X	State	on, off, sta

Example

Example	Feedback
RepeatCmd on	RepeatCmd on

RHostName

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

Syntax

```
RHostName
```

This command does not require any parameters.

Example

Example	Feedback
RHostName	RHostName H1611-E82A69

SetCmd

Assigns a command string to the specified display command, so that the command performs the desired function on the display (sink). For example, “SetCmd on[foo]” assigns the string “foo” to the on command. Consult the documentation for the display for valid command strings.

Syntax

```
SetCmd X[Y]
```

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

Example

Example	Feedback
`SetCmd on[PWRON]`	`SetCmd on[PWRON]`

SHostName

Sets the hostname of the unit. The hostname can be changed to easily identify the unit on a network. A custom hostname must meet the hostname standards defined in RFC 1123 (https://tools.ietf.org/html/rfc1123).

Syntax

```
SHostName X
```

Parameter	Description	Range
X	Name	String (15 characters max.)

Example

Example	Feedback
`SHostName CNTL_ConfRoom`	`SHostName CNTL_ConfRoom`

System

Displays information about the JAV-CNTL-H1611. The sta argument must be specified.

Syntax

```
System X
```

Parameter	Description	Range
X	Constant	sta

Example

Example	Feedback
System sta	Model: JAV-CNTL-H1611 MAC Addr: xx-xx-xx-E8-2A-69 Address Type: DHCP IP Addr: 10.20.20.40 Netmask: 255.255.255.0 Gateway: 10.20.20.1 HTTP Port: 80 Telnet Port: 23 Firmware: 1.1.0 On/Up Time <dd HH:mm:ss>: 00 22:26:15 Hostname: H1611-E82A69

TrigCEC

Sends the specified command to the display using the CEC protocol.

Syntax

```
TrigCEC X
```

Parameter	Description	Range
X	Command	on, off, vol+, vol-, mute, input

Example

Example	Feedback
TrigCEC on	TrigCEC on

TrigIP

Sends the specified command to the display using IP.

Syntax

```
TrigIP X
```

Parameter	Description	Range
X	Command	on, off, vol+, vol-, mute, mute_on, mute_off

Example

Example	Feedback
TrigIP on	TrigIP on

TrigRS

Sends the specified command to the display using RS-232.

Syntax

```
TrigRS X
```

Parameter	Description	Range
X	Command	on, off, vol+, vol-, mute, mute_on, mute_off

Example

Example	Feedback
TrigRS on	TrigRS on

Type

Displays the model (SKU) of the unit.

Syntax

```
Type
```

This command does not require any parameters.

Example

Example	Feedback
Type	JAV-CNTL-H1611

Version

Displays the current firmware version of the unit.

Syntax

```
Version
```

This command does not require any parameters.

Example

Example	Feedback
Version	1.1.0

The items below are open questions for review. They are not product documentation and are removed before publishing.

[VERIFY] — REVIEW MARKUP · REMOVE BEFORE PUBLISHING	
[VERIFY] Command case	Commands are case-sensitive. The Atlona API shows the reset command as both “Mreset” (command list, example) and “MReset” (syntax). This document uses Mreset. Confirm.