



HDBaseT™ Scaler with HDMI and Analog Audio Outputs

Application Programming Interface

AT-HDVS-RX
AT-HDVS-150-RX

Atlona Manuals
Switchers

Version Information

| Version | Release Date | Notes |
|---------|--------------|-----------------|
| 1 | 06/18 | Initial release |

Commands

The following tables provide an alphabetical list of commands available on the AT-HDVS-150-RX and AT-HDVS-RX. All commands are case-sensitive and must be entered as documented. Each command must include the "\$" character as the terminating character. If the command fails or is entered incorrectly, then the feedback is "COMMAND FAIL".

 **IMPORTANT:** Each command must be terminated with a carriage-return (0x0d) and the feedback is terminated with a carriage-return and line-feed (0x0a).

| Command | Description |
|----------------|---|
| WP_Aspect | Sets the output aspect ratio |
| WP_AudioEn | Enables or disables the audio output; all outputs are affected |
| WP_AudioHdmi | Enables or disables the HDMI audio output |
| WP_AutoDispOff | Enables or disables DisplayOn |
| WP_AutoDispOn | Enables or disables DisplayOff |
| WP_AutoSwitch | Enable or disables auto switching or display auto switching status |
| WP_Display | Sets Display On/Off control |
| WP_DisplayMode | Sets the display mode for power-on and power-off |
| WP_DisplayOff | Sends the Display Off command to the projector |
| WP_DisplayOn | Sends the Display On command to the projector |
| WP_DisplaySet | Sets the baud rate, data bits, stop bits, and parity for the projector's port |
| WP_HdcpInput | Sets the HDCP reporting mode for the specified input |
| WP_IdentifyTx | Displays the TX model name |
| WP_Info | Displays the version of firmware for the RX |
| WP_InfoTx | Displays the version of both TX and RX firmware |
| WP_Input | Sets the input source |
| WP_InputPrefer | Sets the preferred input resolution |
| WP_Output | Sets the output resolution |
| WP_OverscanEn | Enables or disables overscan |
| WP_OverscanH | Sets the horizontal overscan size (%) |
| WP_OverscanV | Sets the vertical overscan size (%) |
| WP_PictureBri | Sets the picture brightness |
| WP_PictureCon | Sets the picture contrast |
| WP_PictureHue | Sets the picture hue |
| WP_PictureRst | Executes a picture reset |
| WP_PictureSat | Sets the picture saturation |
| WP_PictureSha | Sets the picture sharpness |
| WP_ProjSW | Set the time interval between received commands |
| WP_Standby | Places the unit in standby mode |
| WP_SystemRst | Sets the unit to factory-default settings |

Commands

| Command | Description |
|-------------|--------------------------------|
| WP_VgaAuto | Resets the VGA clock and phase |
| WP_VgaClock | Sets the VGA polarity |

WP_Aspect

Sets the output aspect ratio. Use the ? argument to display the current setting.

Syntax

```
WP_Aspect[X]$
```

| Parameter | Description | Range |
|-----------|--------------|---------------------------------|
| X | Aspect ratio | Full, 16:9, 16:10, 4:3, Keep, ? |

Example

```
WP_Aspect[16:10]$
```

Feedback

```
WP_Aspect[16:10]
```

WP_AudioEn

Enables or disables audio output. When disabling audio output, both outputs (HDMI, analog) are disabled. Use the ? argument to display the current setting.

Syntax

```
WP_AudioEn[X]$
```

| Parameter | Description | Range |
|-----------|-------------|------------|
| X | State | On, Off, ? |

Example

```
WP_AudioEn[Off]$
```

Feedback

```
WP_AudioEn[Off]
```

WP_AudioHdmi

Enables or disables the HDMI audio output. The analog output is unaffected. Use the ? argument to display the current setting.

Syntax

```
WP_AudioHdmi[X]$
```

| Parameter | Description | Range |
|-----------|-------------|------------|
| X | State | On, Off, ? |

Example

```
WP_AudioHdmi[Off]$
```

Feedback

```
WP_AudioHdmi[Off]
```

WP_AudioLR

Enables or disables the analog audio output. The HDMI output is unaffected. Use the ? argument to display the current setting.

Syntax

```
WP_AudioLR[X]
```

| Parameter | Description | Range |
|-----------|-------------|------------|
| X | State | On, Off, ? |

Example

```
WP_AudioLR[Off]$
```

Feedback

```
WP_AudioLR[Off]
```

WP_AutoDispOff

Enables or disables DisplayOff. Use the ? argument to display the current setting.

Syntax

```
WP_AutoDispOff[X]$
```

| Parameter | Description | Range |
|-----------|-------------|------------|
| X | State | On, Off, ? |

Example

```
WP_AutoDispOff[On]$
```

Feedback

```
WP_AutoDispOff[On]
```

WP_AutoDispOn

Enables or disables DisplayOn. Use the ? argument to display the current setting.

Syntax

```
WP_AutoDispOn[X]$
```

| Parameter | Description | Range |
|-----------|-------------|------------|
| X | State | On, Off, ? |

Example

```
WP_AutoDispOn[On]$
```

Feedback

```
WP_AutoDispOn[On]
```

WP_AutoSwitch

Enables or disables auto switching or display auto switching status. Use the ? argument to display the current setting.

Syntax

```
WP_AutoSwitch[X]$
```

| Parameter | Description | Range |
|-----------|-------------|------------|
| X | State | On, Off, ? |

Example

```
WP_AutoSwitch[On]$
```

Feedback

```
WP_AutoSwitch[On]
```

WP_Display

Enables or disables Display control. Use the ? argument to display the current setting.

Syntax

```
WP_Display[X]$
```

| Parameter | Description | Range |
|-----------|-------------|------------|
| X | State | On, Off, ? |

Example

```
WP_Display[On]$
```

Feedback

```
WP_Display[On]
```

WP_DisplayMode

Sets the auto-switching display mode. Use the ? argument to display the current setting.

Syntax

```
WP_DisplayMode[X]$
```

| Parameter | Description | Range |
|-----------|-------------|--|
| X | Mode | DispSWAVOn, DispSWAWW, AVSW, AlwaysOn, ? |

Example

```
WP_DisplayMode[AVSW]$
```

Feedback

```
WP_DisplayMode[AVSW]
```

WP_DisplayOff

Projector Display-Off command. The first argument is the length of the command string; maximum length is 50 characters. The second argument is the command string plus the carriage return, if required. Multiple commands may be specified using the comma delimiter. Time delay for the comma delimiter is five seconds.

Syntax

```
WP_DisplayOff[X,Y]$
```

| Parameter | Description | Range |
|-----------|----------------|--------------|
| X | Command length | 1 ... 50 |
| Y | Command string | String value |

Example

```
WP_DisplayOff[4, AVON]$
```

Feedback

```
WP_DisplayOff[4, AVON]
```

WP_DisplayOn

Projector Display-On command. The first argument is the length of the command string; maximum length is 50 characters. The second argument is the command string plus the carriage return, if required. Multiple commands may be specified using the comma delimiter. Time delay for the comma delimiter is five seconds.

Syntax

```
WP_DisplayOn[X,Y]$
```

| Parameter | Description | Range |
|-----------|----------------|--------------|
| X | Command length | 1 ... 50 |
| Y | Command string | String value |

Example

```
WP_DisplayOn[4, AVON]$
```

Feedback

```
WP_DisplayOn[4, AVON]
```

WP_DisplaySet

Sets the baud rate, data bits, parity bit, and stop bits for the **RS-232** port on the projector. Each argument must be separated by a comma; no spaces are permitted. Brackets must be included when typing this command. Use the ? argument, *without brackets and including a space*, to display the current settings.

Syntax

```
DisplaySet[W,X,Y,Z]$
```

| Parameter | Description | Range |
|-----------|-------------|--|
| W | Baud rate | 2400, 9600, 19200, 38400, 56000, 57600, 115200 |
| X | Data bits | 7, 8 |
| Y | Parity bit | None, Odd, Even |
| Z | Stop bits | 1, 2 |

Example

```
DisplaySet[115200,8,0,1]$
```

Feedback

```
DisplaySet[115200,8,0,1]
```

WP_Hdcplnput

Set the HDCP reporting mode. Some computers will send HDCP content if an HDCP-compliant display is detected. HDCP = reports to the source device that the display (sink) is HDCP-compliant, NotHDCP = reports to the source device that the display (sink) is not HDCP-compliant (HDCP content will not be sent), Auto = uses the attributes of the display device to accept or not accept HDCP content. Setting this value to off *does not* decrypt HDCP content. Use the ? argument to display the current setting.

Syntax

```
WP_Hdcplnput[X]$
```

| Parameter | Description | Range |
|-----------|-------------|---------------------|
| X | Mode | HDCP, NotHDCP, Auto |

Example

```
WP_Hdcplnput[NotHDCP]$
```

Feedback

```
WP_Hdcplnput[NotHDCP]
```

WP_IdentifyTx

Displays the version of firmware running on the transmitter. The ? argument must be specified.

Syntax

```
WP_IdentifyTx[?]$
```

| Parameter | Description | Range |
|-----------|-------------|-------|
| X | Constant | ? |

Example

WP_IdentifyTx[?]\$

Feedback

WP_IdentifyTx[1.0.6]

WP_Info

Displays the version of firmware running on the receiver. The ? argument must be specified.

Syntax

```
WP_Info[?]$
```

| Parameter | Description | Range |
|-----------|-------------|-------|
| X | Constant | ? |

Example

WP_Info[?]\$

Feedback

WP_Info[1.0.6]

WP_InfoTx

Displays the version of firmware running on both the transmitter and the receiver. The ? argument must be specified.

Syntax

```
WP_InfoTx[?]$
```

| Parameter | Description | Range |
|-----------|-------------|-------|
| X | Constant | ? |

Example

WP_InfoTx[?]\$

Feedback

WP_InfoTx[1.0.6]

WP_Input

Sets the active input on the transmitter. Use the ? argument to display the current setting.

Syntax

```
WP_Input[X]$
```

| Parameter | Description | Range |
|-----------|-------------|----------------------|
| X | Input | Hdmi1, Hdmi2, Vga, ? |

Example

```
WP_Input[Hdmi2]$
```

Feedback

```
WP_Input[Hdmi2]
```

WP_InputPrefer

Sets the preferred input resolution. Use the ? argument to display the current setting.

Syntax

```
WP_InputPrefer[X]$
```

| Parameter | Description | Range |
|-----------|-------------|---------|
| X | Resolution | 0 ... 6 |

0 = 800 x 600

4 = 1366 x 768

1 = 1024 x 768

5 = 1920 x 1080

2 = 1280 x 720

6 = 1920 x 1200

3 = 1280 x 800

Example

```
WP_InputPrefer[5]$
```

Feedback

```
WP_InputPrefer[5]
```

WP_Output

Sets the output resolution. Use the ? argument to display the current setting.

Syntax

```
WP_Output[X]$
```

| Parameter | Description | Range |
|-----------------|-----------------|-----------------|
| X | Resolution | 0 ... 24, ? |
| 0 = 1024 x 768 | 9 = 720p29.97 | 18 = 1080p25 |
| 1 = 1280 x 800 | 10 = 720p30 | 19 = 1080p29.97 |
| 2 = 1280 x 1024 | 11 = 720p50 | 20 = 1080p30 |
| 3 = 1366 x 768 | 12 = 720p59.94 | 21 = 1080p50 |
| 4 = 1400 x 1050 | 13 = 720p60 | 22 = 1080p59.94 |
| 5 = 1600 x 1200 | 14 = 1080i50 | 23 = 1080p60 |
| 6 = 1680 x 1050 | 15 = 1080i59.94 | 24 = Native |
| 7 = 1920 x 1080 | 16 = 1080p23.98 | |
| 8 = 720p25 | 17 = 1080p24 | |

Example

```
WP_Output[13]$
```

Feedback

```
WP_Output[13]
```

WP_OverscanEn

Enables or disables overscan. Use the ? argument to display the current setting.

Syntax

```
WP_OverscanEn[X]$
```

| Parameter | Description | Range |
|-----------|-------------|------------|
| X | State | Yes, No, ? |

Example

```
WP_OverscanEn[Yes]$
```

Feedback

```
WP_OverscanEn[Yes]$
```

WP_OverscanH

Sets the horizontal overscan size. The command argument is a percentage of the horizontal size of the image. Use the **WP_OverscanEn** command to enable overscan, before using this command. Specify the ? argument to display the current setting.

Syntax

```
WP_OverscanH[X]$
```

| Parameter | Description | Range |
|-----------|-------------|-------------|
| X | Percentage | 0 ... 50, ? |

Example

WP_OverscanH[25]\$

Feedback

WP_OverscanH[25]

WP_OverscanV

Sets the vertical overscan size. The command argument is a percentage of the vertical size of the image. Use the **WP_OverscanEn** command to enable overscan, before using this command. Specify the ? argument to display the current setting.

Syntax

```
WP_OverscanV[X]$
```

| Parameter | Description | Range |
|-----------|-------------|-------------|
| X | Percentage | 0 ... 50, ? |

Example

WP_OverscanV[25]\$

Feedback

WP_OverscanV[25]

WP_PictureBri

Sets the picture brightness. Specify the ? argument to display the current setting.

Syntax

```
WP_PictureBri[X]$
```

| Parameter | Description | Range |
|-----------|-------------|--------------|
| X | Level | 0 ... 100, ? |

Example

WP_PictureBri[60]\$

Feedback

WP_PictureBri[60]

WP_PictureCon

Sets the picture contrast. Specify the ? argument to display the current setting.

Syntax

```
WP_PictureCon[X]$
```

| Parameter | Description | Range |
|-----------|-------------|--------------|
| X | Level | 0 ... 100, ? |

Example

```
WP_PictureCon[55]$
```

Feedback

```
WP_PictureCon[55]
```

WP_PictureHue

Sets the picture hue. Specify the ? argument to display the current setting.

Syntax

```
WP_PictureHue[X]$
```

| Parameter | Description | Range |
|-----------|-------------|--------------|
| X | Hue | 0 ... 100, ? |

Example

```
WP_PictureHue[48]$
```

Feedback

```
WP_PictureHue[48]
```

WP_PictureRst

Resets the brightness, contrast, hue, saturation, and sharpness values to the factory-default settings. The Go argument must be specified.

Syntax

```
WP_PictureRst[Go]$
```

| Parameter | Description | Range |
|-----------|-------------|-------|
| X | Constant | Go |

Example

```
WP_PictureRst[Go]$
```

Feedback

```
WP_PictureRst[Go]
```

WP_PictureSat

Sets the picture saturation. Specify the ? argument to display the current setting.

Syntax

```
WP_PictureSat[X]$
```

| Parameter | Description | Range |
|-----------|-------------|--------------|
| X | Level | 0 ... 100, ? |

Example

WP_PictureSat[48]\$

Feedback

WP_PictureSat[48]

WP_PictureSha

Sets the picture sharpness. Specify the ? argument to display the current setting.

Syntax

```
WP_PictureSha[X]$
```

| Parameter | Description | Range |
|-----------|-------------|--------------|
| X | Level | 0 ... 100, ? |

Example

WP_PictureSha[48]\$

Feedback

WP_PictureSha[48]

WP_ProjSW

Sets the time interval before the “display on” command is sent. This value should be the same as the projector’s delay setting. Use the ? argument to display the current setting.

Syntax

```
WP_ProjSW[X]$
```

| Parameter | Description | Range |
|-----------|---------------|--------------|
| X | Time interval | 0 ... 300, ? |

Example

WP_ProjSW[30]\$

Feedback

WP_ProjSW[30]\$

WP_Standby

Sets the standby timer, in minutes. Use the ? argument to display the current setting.

Syntax

```
WP_Standby[X]$
```

| Parameter | Description | Range |
|-----------|---------------|-------------|
| X | Time interval | 0 ... 10, ? |

Example

```
WP_Standby[5]$
```

Feedback

```
WP_Standby[5]
```

WP_SystemRst

Resets the unit to factory-default settings. The Go argument must be specified.

Syntax

```
WP_SystemRst[Go]$
```

| Parameter | Description | Range |
|-----------|-------------|-------|
| X | Constant | Go |

Example

```
WP_SystemRst[Go]$
```

Feedback

```
WP_SystemRst[Go]
```

WP_VgaAuto

Executes the VGA auto-adjust. This command automatically adjusts the phase and clock of the VGA signal. A VGA display must be connected to the HDVS unit, when executing this command. Otherwise, the command will fail. The Go argument must be specified.

Syntax

```
WP_VgaAuto[Go]$
```

| Parameter | Description | Range |
|-----------|-------------|-------|
| X | Constant | Go |

Example

```
WP_VgaAuto[Go]$
```

Feedback

```
WP_VgaAuto[Go]
```

WP_VgaClock

Sets the VGA ADC clock polarity. Use the ? argument to display the current setting.

Syntax

```
WP_VgaClock[X]$
```

| Parameter | Description | Range |
|-----------|-------------|--------------------|
| X | Setting | Normal, Inverse, ? |

Example

```
WP_VgaClock[Inverse]$
```

Feedback

```
WP_VgaClock[Inverse]
```



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