

Atlona Portable HDMI Signal Generator with 3D Patterns

AT-HD800



User Manual

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Introduction

With so many potential problems in any installation it's always better to be ready before the problem starts. With the Atlona Portable HDMI Signal Generator, test HDMI cables, determine compatible resolutions, and read EDIDs before installation to avoid problems or after to troubleshoot compatibility issues. Save time and avoid guesswork with the AT-HD800.

Package Contents

- 1 x AT-HD800
- 1 x 5V/2A Power Supply
- 4 x AA Batteries
- 1 x Rubber Case
- 1 x User Manual

Features

- Supports 16 Test Patterns which includes 3-3D patterns.
- Cable integrity testing ability
- Vesa testing resolutions: 640x480(VGA), 800x600(SVGA), 1024x768(XGA), 1280x1024(SXGA), 1920x1200(WUXGA)
- Video testing resolutions: 480i/p, 576i/p, 720p(50/60Hz), 1080i(50/60Hz), 1080p(24/50/60)
- 3D Video testing resolutions: 720p(50/60Hz), 1080p 24Hz
- 2-channel LPCM is always active to test audio 1Khz frequency at -20dB volume
- EDID Reading function, allows user to view the displays capabilities
- HDMI ports are designed for reading EDID from both source and display capabilities side by side. This helps to prevent a lot of issues with installation and also troubleshooting the compatibilities in applications where a lot of equipment is used.
- Protective rubber case included
- Last memory function, allows the generator remember the setting the user had prior to powering OFF.

Specifications

Bandwidth frequency	6.75Gbps
Input Ports	1 x HDMI
Output Ports	1 x HDMI
Resolution outputs	Video: up to 1080p Vesa: up to 1920x1200
Dimensions (HxWxD)	1x3.5x5 (inch) or 25.4x88.9x127 (mm)
Weight	0.4lbs or 0.18kg
Temperature	Operating: 32°F to 104°F or 0°C to 40°C Storage: -4°F to 140°F or -20°C to 60°C
Power consumption	2.1W (Bypass), 1.1W (Pattern)

Panel Description



1. DC 5V: Input port for the included 5V DC Adapter.

2. Power Switch: Turns the AT-HD800 on (switch up) and off (switch down)

Note: To switch to power over 5V DC adapter, when the batteries are low, power cycle the AT-HD800 with the power switch.

3. HDMI IN: Connect an HDMI cable from a source, or HDMI loop for cable testing.

4. HDMI OUT: Connect an HDMI cable to a display, or HDMI loop for cable testing.

Note: Loop the HDMI cable from the HDMI Out to the HDMI In for cable testing.

5. BATT. LOW LED: Red led will light up when the power is on. The LED will start flashing **fast** when the batteries get to **10% or below** or **slow** when it is put in **standby** mode.

Note: Standby will occur after 3 minutes of inactivity with nothing plugged into the ports of the AT-HD800. (The AT-HD800 will not go into standby when using the 5V adapter.)

6. Bypass/Pattern LED: Green LED will illuminate when receiving signal from an HDMI source. LED will be off if no HDMI source is connected.

7. 3D/PC/HD LED:

a. LED will flash when receiving or sending a 3D signal.

b. LED will be a solid green when sending or receiving a VESA resolution

c. LED will be off when receiving or sending a video resolution.

8. 50/60 Hz LED: Will illuminate green when sending/receiving a 50Hz signal.

(Most commonly used in Europe and Asia)

Note: To quickly switch between 50 & 60Hz press and hold the Timing Select & Info Pattern buttons together for 3 seconds then release.

9. Timing Select Button: Press once to bring up the resolution menu on the display (not available when an HDMI source is connected). Press the timing select button again to go through the 25 available timing/resolutions (press the Info Pattern button to go backwards)

10. Info Pattern Button

a. HD800 to Display: Press once to bring up the pattern menu. Press continuously to go through the patterns. (Press the Timing Select Button to go back to a pattern.)

b. Source to HD800 to Display: Pressing the Info Pattern Button will show the source and display capabilities side by side on the display's screen.

Note: If there is no image present, press the Info Pattern Button 3 seconds then release. The resolution will be reset to the Display's native resolution.

Battery Door



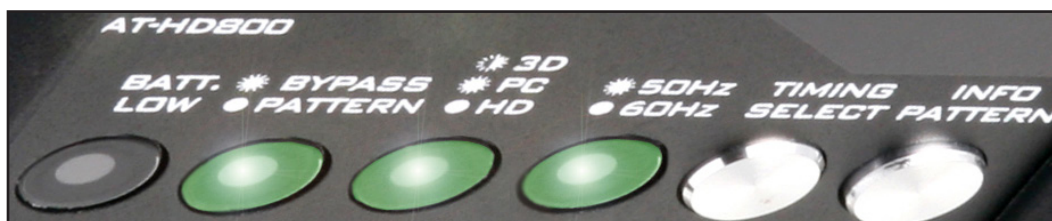
The battery door can be found at the bottom of the HD800 under the signal LEDs and function buttons. To remove the door, first take the protective rubber casing off. Find the button that says “Push IN” and press it in with a hard tipped item, such as a pen or screwdriver (Do not use fingernail or there is a risk of breakage). The latch should pop up and the door can be slid off.

To replace the battery door, slide the door back into place and press the latch slightly backwards. Press down until the latch has snapped back into place.

HDMI Cable Testing

Important: Before testing the HDMI cables, ensure the AT-HD800 is not in 3D mode. If in 3D mode, connect to any display and hold the timing select button for 3 seconds to reset to the display’s resolution (the AT-DIS7-PROHD can be used for this step). Once out of 3D mode the AT-HD800 is ready to test the HDMI cables.

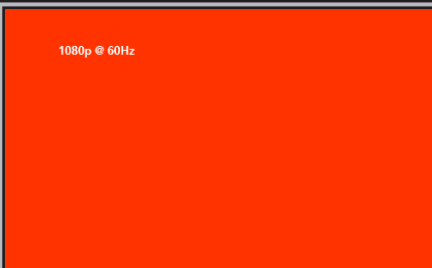



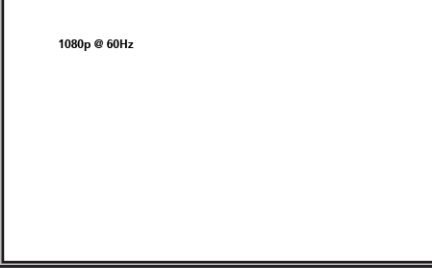
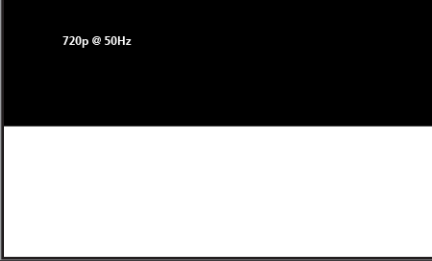
Connect the HDMI cable into the HDMI In and HDMI Out ports, then press and hold the timing select button for 3 seconds. If the HDMI cable passed then all 3 green LEDs will blink briefly then go solid and remain solid. If the HDMI cable can’t pass the full signal then the green LEDs will become solid briefly then return to blinking.




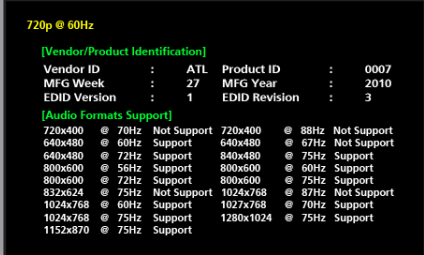
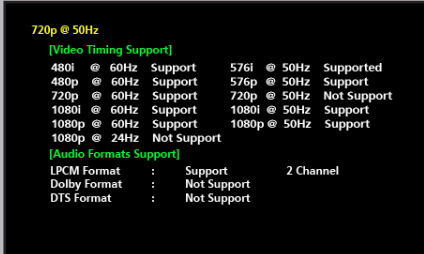
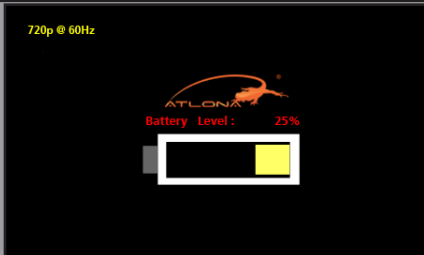
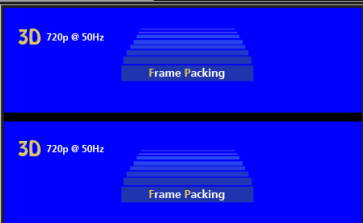
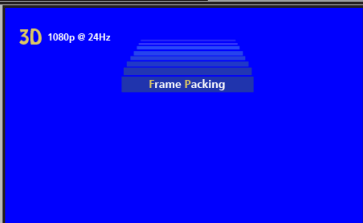
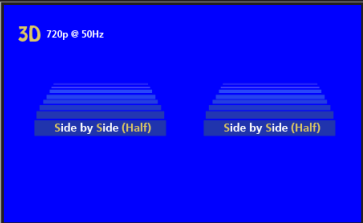

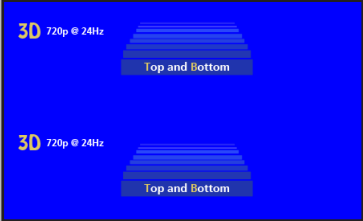

Timing Chart

No.	Resolution	V Hz	No.	Resolution	V Hz	No.	Resolution	V Hz
1	480p	60	2	720p	60	3	1080i	60
4	1080p	60	5	480i	60	6	576i	50
7	576p	50	8	720i	50	9	1080i	50
10	1080p	50	11	1080p	24	12	640x480	60
13	800x600	60	14	1024x768	60	15	1280x1024	60
16	1920x1200	60	17	720p (3D Frame Packing)	60	18	720p (3D Side-by-Side)	60
19	720p (3D Top-to-Bottom)	60	20	720p (3D Frame Packing)	50	21	720p (3D Side-by-Side)	50
22	720p (3D Top-to-Bottom)	50	23	1080p (3D Frame Packing)	24	24	1080p (3D Side-by-Side)	24
25	1080p (3D Top-to-Bottom)	24						

Pattern Chart

<u>Group</u>	<u>No.</u>	<u>Pattern</u>	<u>Description</u>
Full Screen Purity	P01	 1080p @ 60Hz	Pattern 01 - Red
	P02	 1080p @ 60Hz	Pattern 02 - Green
	P03	 720p @ 50Hz	Pattern 03 - Blue
	P04	 720p @ 50Hz	Pattern 04 - Black
	P05	 1080p @ 60Hz	Pattern 05 - White
Color Bar	P06	 720p @ 50Hz	Pattern 06 - Horizontal Bars Black & White HDCP testing pattern for all resolutions

<u>Group</u>	<u>No.</u>	<u>Pattern</u>	<u>Description</u>
	P07		Pattern 07 - Vertical Bars Red, Green, and Blue
Line	P08		Pattern 08 - Horizontal Lines 720p 50/60Hz only
Grid	P09		Pattern 09 - Grid 720p 50/60Hz only
H Line	P10		Pattern 10 - H Lines 720p 50/60Hz only
Color Bar	P11		Pattern 11 - Color Bar Vertical and horizontal 720p 50/60Hz only
	P13		Pattern 13 - Color Bar 6 Colors 720p 50/60Hz only

Group	No.	Pattern		Description
Grey Scale	P12			Pattern 12 - 6 level Grey Scale 720p 50/60Hz only
TV Timing	P14			Display's VESA Timings 720p 50/60Hz only
	P15			Display's Video Timings 720p 50/60Hz only
Battery Info	P17			Battery level Screen 720p 50/60Hz only
3D Type	P18			Pattern 17 - 3D Frame Packing
	P19			Pattern 18 - 3D Side-by-Side (Half)
	P20			Pattern 19 -3D Top and Bottom

Connection and Installation



OR



OR



Safety Information

Safeguards



To reduce the risk of electric shock, do not expose this product to rain or moisture



Do not modify the wall plug. Doing so will void the warranty and safety features.



If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.



This equipment should be installed near the socket outlet and the device should be easily accessible in the case it requires disconnection.

Precautions

FCC regulations state that any unauthorized changes or modifications to this equipment, not expressly approved by the manufacturer, could void the user's authority to operate this equipment.

Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product, or cause fires.

In the event of an electrostatic discharge this device may automatically turn off. If this occurs, unplug the device and plug it back in.

Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins or cord exit points from this product.

Avoid excessive humidity, sudden temperature changes or temperature extremes.

Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements, fish tanks, and swimming pools.

Use only accessories recommended by Atlona to avoid fire, shock, or other hazards.

Unplug the product before cleaning. Use a damp cloth for cleaning and not cleaning fluid or aerosols. Such products could enter the unit and cause damage, fire, or electric shock. Some substances may also mar the finish of the product.

Never open, remove unit panels, or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-HD800. Opening the product will void the warranty.

Do not attempt to service the unit. Disconnect the product and contact your authorized Atlona reseller or contact Atlona directly.

Warranty

Limited Warranty

Atlona Technologies warrants that (a) its products (AT-HD800) will perform substantially in accordance with the accompanying written materials for a period of 3 years from the date of receipt and (b) that the product will be free from defects in materials and workmanship under normal use and service for a period of 3 years. In the event applicable law imposes any implied warranties, the implied warranty period is limited to 3 years from the date of receipt. Some jurisdictions do not allow such limitations on duration of an implied warranty, so the above limitation may not apply to customers that fall within those areas.

Customer Remedies

Atlona Technologies' and its suppliers' entire liability and Customer's exclusive remedy shall be, at Atlona Technologies' decision, either return of the price paid for the product, repair, or replacement of the product that does not meet this Limited Warranty and which is returned to Atlona Technologies with a copy of the Customer's receipt. This Limited Warranty is void if failure of the product has resulted from accident, abuse, misapplication, or natural occurrence. In example but not limited to: power surges (electrical storms, local power outage), dropping the product (or items on the product), contact with fluids, and physical misconduct (i.e. kicking or punching). Any replacement product will be warranted for the remainder of the original warranty period.

No other warranties

To the maximum extent permitted by applicable law, Atlona Technologies and its suppliers disclaim all other warranties, either expressed or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose, with regard to the product and any related written materials. This Limited Warranty gives customer specific legal rights. Customers may have other rights depending on the jurisdiction.

No liability for damages

To the maximum extent permitted by applicable law, in no event shall Atlona Technologies or its suppliers be liable for any damages arising out of the use of or inability to use this product, even if Atlona Technologies has been advised of the possibility of such damages. Such damages include but are not limited to: special, incidental, consequential, or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or any other pecuniary loss. Atlona Technologies' and its suppliers' entire liability under any provision of this agreement shall be limited to the amount actually paid by you for the product. Some Jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damage. The above limitations may not apply to you in such jurisdictional cases.

Atlona Product Registration

Thank you for purchasing this Atlona product. - We hope you enjoy it and will take an extra few moments to register your new purchase.

Registration creates an ownership record if your product is lost or stolen and helps ensure you'll receive notification of performance issues and firmware updates.

At Atlona, we respect and protect your privacy, assuring you that your registration information is completely secure. Atlona product registration is completely voluntary and failure to register will not diminish your limited warranty rights.

To register go to: <http://www.atlona.com/registration>