

Atlona Portable HDMI Signal Generator with 3D Patterns

AT-HD800



User Manual

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Revision C (12/14/12):

Firmware Version	2.1S
New timing order	Page 5
Patterns 8-17 added to 1080i and 1080p	Page 6-8

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.

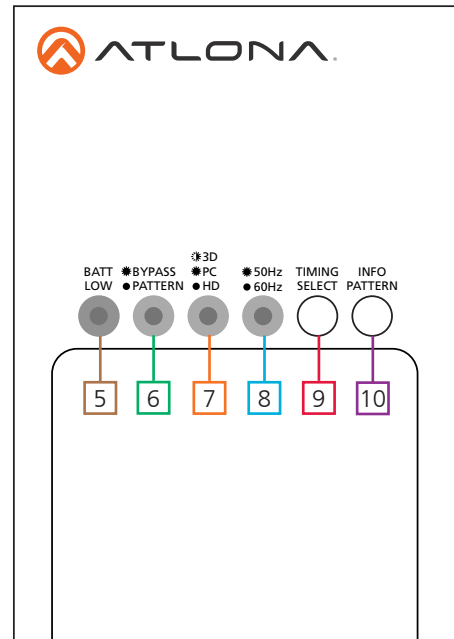
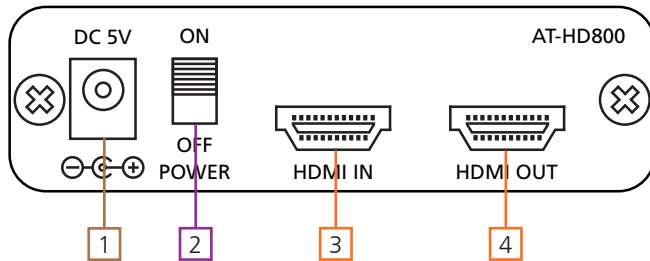
Package Contents

- 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 capabilities from both source and display side by side. This helps to prevent a lot of issues with installation and also troubleshooting incompatibilities in applications where a lot of equipment is used.
- Protective rubber case included
- Last memory function, allows the generator to remember the setting the user had prior to powering OFF

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. The 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 timings/resolutions (press the Info Pattern button to go backwards)

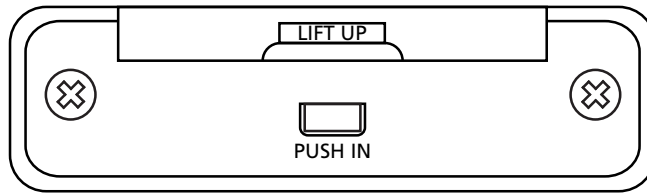
10. Info Pattern Button

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

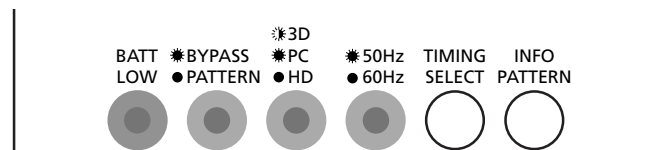


The battery door can be found at the bottom of the HD800 under the signal LEDs and function buttons. To remove the door, first take the protective rubber casing off. Find the button that says "PUSH IN" and press it in with a hard tipped item, such as a pen or screwdriver (Do not use fingernail or there 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.



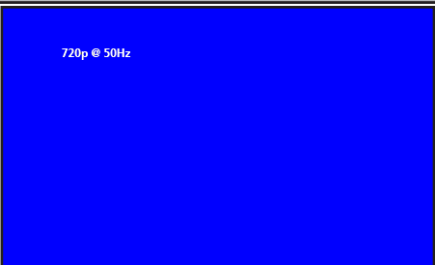





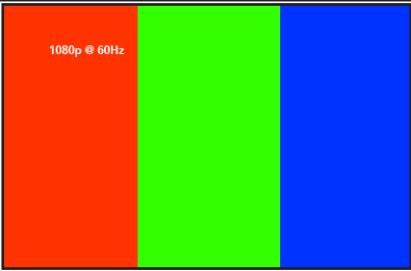

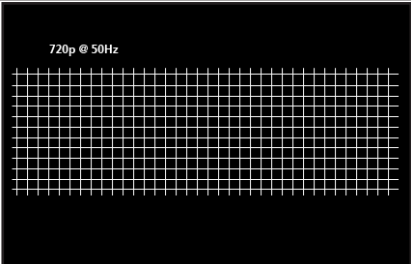
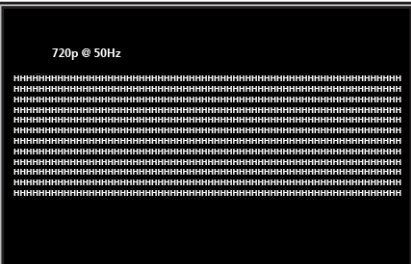


1. Connect the HDMI cable to the HDMI IN and HDMI OUT ports.
If the cable is directional, plug the display portion to the HDMI OUT port.
2. Press and hold the Timing Select and Info Pattern buttons for five seconds.
3. Release the buttons. All the LEDs will flash while the test runs.
The cable is good if all the lights go solid green.
4. Press and hold the Timing Select and Info Pattern buttons for five seconds.
5. Release the buttons and the unit will leave testing mode.

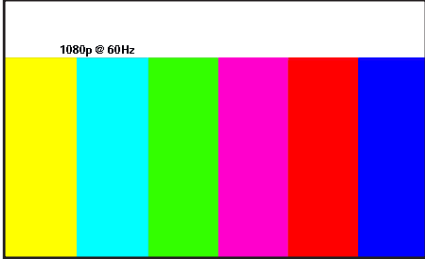


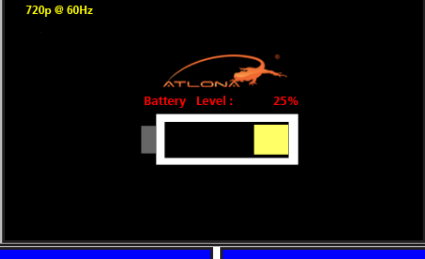
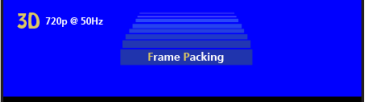

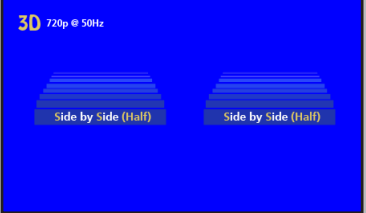
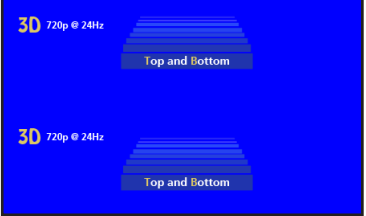
Timing Chart

No.	Resolution	V Hz	No.	Resolution	V Hz	No.	Resolution	V Hz
1	480p	60	2	480i	60	3	576p	50
4	576i	60	5	720p	60	6	720p	50
7	1080i	60	8	1080i	50	9	1080p	60
10	1080p	50	11	1080p	24	12	640x480	60
13	800x600	60	14	1024x768	60	15	1280x800	60
16	1280x1024	60	17	1920x1200	60	18	720p (3D Frame Packing)	60
19	720p (3D Side-by-Side)	60	20	720p (3D Top-to-Bottom)	60	21	720p (3D Frame Packing)	50
22	720p (3D Side-by-Side)	50	23	720p (3D Top-to-Bottom)	50	24	1080p (3D Frame Packing)	24
25	1080p (3D Side-by-Side)	24	26	1080p (3D Top-to-Bottom)	24			

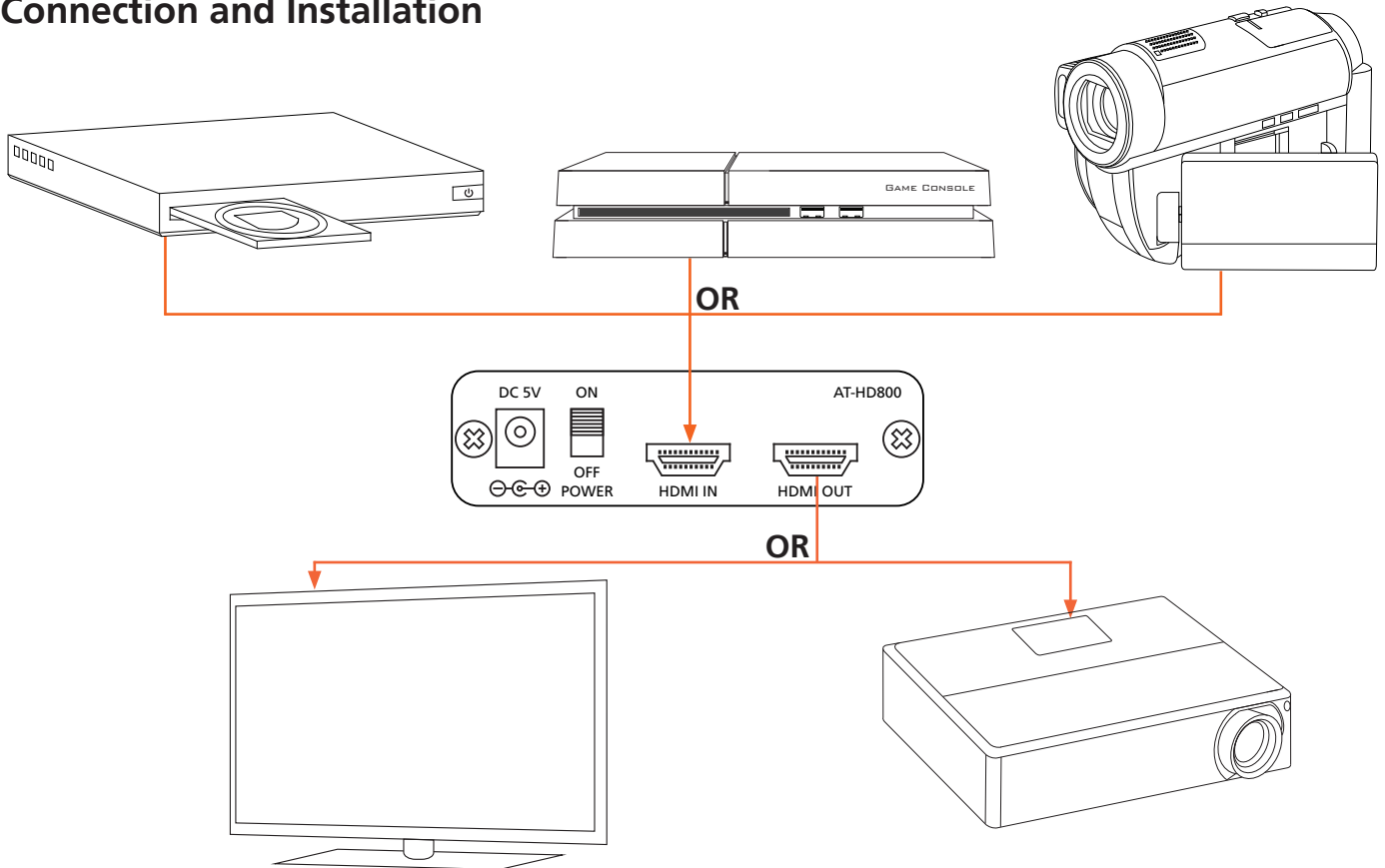
Pattern Chart

<u>Group</u>	<u>No.</u>	<u>Pattern</u>	<u>Description</u>
Full Screen Purity	P01		Pattern 01 - Red
	P02		Pattern 02 - Green
	P03		Pattern 03 - Blue
	P04		Pattern 04 - Black
	P05		Pattern 05 - White
Color Bar	P06		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 <i>Available on:</i> 720p, 1080i and 1080p.
Grid	P09		Pattern 09 - Grid <i>Available on:</i> 720p, 1080i and 1080p.
H Line	P10		Pattern 10 - H Lines <i>Available on:</i> 720p, 1080i and 1080p.
Color Bar	P11		Pattern 11 - Color Bar Vertical and horizontal <i>Available on:</i> 720p, 1080i and 1080p.
	P12		Pattern 12 - 6 level Grey Scale <i>Available on:</i> 720p, 1080i and 1080p.

Group	No.	Pattern	Description
Grey Scale	P13		Pattern 13 - Color Bar 6 Colors <i>Available on:</i> 720p, 1080i and 1080p.
TV Timing	P14		Display's VESA Timings <i>Available on:</i> 720p, 1080i and 1080p.
	P15		Display's Video Timings <i>Available on:</i> 720p, 1080i and 1080p.
Battery Info	P17		Battery level Screen <i>Available on:</i> 720p, 1080i and 1080p.
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



Specifications

Video Resolutions

480i, 480p, 576i, 576p, 720p@50/60Hz, 1080i@50/60Hz,
1080p@24/50/60Hz
640x480, 800x600, 1024x768, 1280x800, 1280x1024, 1920x1200

Audio

Formats PCM 2Ch

Signal

Bandwidth 6.75 Gbps
HDCP Compliant

Temperature

Operating	0°C to 40°C	32°F to 104°F
Storage	-20°C to 60°C	-4°F to 140°F
Humidity	20 to 90% non-condensing	

Power

Consumption	2.1W (Bypass)	1.1W (Pattern)
Supply	5V -- 2A	

Dimension

H x W x D	25.4 x 88.9 x 127 (mm)	1 x 3.5 x 5 (inch)
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Weight

Device	0.18 kg	0.4 lbs
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Certification

Power Supply	CE, FCC, cULus	
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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 product. 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.

Atlona, Inc. ("Atlona") Limited Product Warranty Policy

Coverage

Atlona warrants its products will substantially perform to their published specifications and will be free from defects in materials and workmanship under normal use, conditions and service.

Under its Limited Product Warranty, Atlona, at its sole discretion, will either:

- A) repair or facilitate the repair of defective products within a reasonable period of time, restore products to their proper operating condition and return defective products free of any charge for necessary parts, labor and shipping
- OR**
- B) replace and return, free of charge, any defective products with direct replacement or with similar products deemed by Atlona to perform substantially the same function as the original products
- OR**
- C) refund the pro-rated value based on the remaining term of the warranty period, not to exceed MSRP, in cases where products are beyond repair and/or no direct or substantially similar replacement products exist.

Repair, replacement or refund of Atlona's products is the purchaser's exclusive remedy and Atlona's liability does not extend to any other damages, incidental, consequential or otherwise.

This Limited Product Warranty extends to the original end-user purchaser of Atlona's products and is non-transferrable to any subsequent purchaser(s) or owner(s) of these products.

Coverage Periods

Atlona's Limited Product Warranty Period begins on the date of purchase by the end-purchaser. The date contained on the end-purchaser's sales or delivery receipt is the proof purchase date.

Limited Product Warranty Terms – New Products

- 10 years from proof of purchase date for hardware/electronics products purchased on or after June 1, 2013
- 3 years from proof of purchase date for hardware/electronics products purchased before June 1, 2013
- Lifetime Limited Product Warranty for all cable products

Limited Product Warranty Terms – Refurbished (B-Stock) Products

- 3 years from proof of purchase date for all Refurbished (B-Stock) hardware and electronic products purchased on or after June 1, 2013

Remedy

Atlona recommends that end-purchasers contact their authorized Atlona dealer or reseller from whom they purchased their products. Atlona can also be contacted directly. Visit www.atlona.com for Atlona's contact information and hours of operation. Atlona requires that a dated sales or delivery receipt from an authorized dealer, reseller or end-purchaser is provided before Atlona extends its warranty services. Additionally, a return merchandise authorization (RMA) and/or case number, is required to be obtained from Atlona in advance of returns.

Atlona requires that products returned are properly packed, preferably in the original carton, for shipping. Cartons not bearing a return authorization or case number will be refused. Atlona, at its sole discretion, reserves the right to reject any products received without advanced authorization. Authorizations can be requested by calling 1-877-536-3976 (US toll free) or 1-408-962-0515 (US/international) or via Atlona's website at www.atlona.com.

Exclusions

This Limited Product Warranty excludes:

- Damage, deterioration or malfunction caused by any alteration, modification, improper use, neglect, improper packing or shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature.
- Damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by Atlona to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product.
- Equipment enclosures, cables, power supplies, batteries, LCD displays, and any accessories used in conjunction with the product(s).
- Products purchased from unauthorized distributors, dealers, resellers, auction websites and similar unauthorized channels of distribution.

Disclaimers

This Limited Product Warranty does not imply that the electronic components contained within Atlona's products will not become obsolete nor does it imply Atlona products or their electronic components will remain compatible with any other current product, technology or any future products or technologies in which Atlona's products may be used in conjunction with. Atlona, at its sole discretion, reserves the right not to extend its warranty offering in instances arising outside its normal course of business including, but not limited to, damage inflicted to its products from acts of god.

Limitation on Liability

The maximum liability of Atlona under this limited product warranty shall not exceed the original Atlona MSRP for its products. To the maximum extent permitted by law, Atlona is not responsible for the direct, special, incidental or consequential damages resulting from any breach of warranty or condition, or under any other legal theory. Some countries, districts or states do not allow the exclusion or limitation of relief, special, incidental, consequential or indirect damages, or the limitation of liability to specified amounts, so the above limitations or exclusions may not apply to you.

Exclusive Remedy

To the maximum extent permitted by law, this limited product warranty and the remedies set forth above are exclusive and in lieu of all other warranties, remedies and conditions, whether oral or written, express or implied. To the maximum extent permitted by law, Atlona specifically disclaims all implied warranties, including, without limitation, warranties of merchantability and fitness for a particular purpose. If Atlona cannot lawfully disclaim or exclude implied warranties under applicable law, then all implied warranties covering its products including warranties of merchantability and fitness for a particular purpose, shall provide to its products under applicable law. If any product to which this limited warranty applies is a "Consumer Product" under the Magnuson-Moss Warranty Act (15 U.S.C.A. §2301, ET SEQ.) or other applicable law, the foregoing disclaimer of implied warranties shall not apply, and all implied warranties on its products, including warranties of merchantability and fitness for the particular purpose, shall apply as provided under applicable law.

Other Conditions

Atlona's Limited Product Warranty offering gives legal rights, and other rights may apply and vary from country to country or state to state. This limited warranty is void if (i) the label bearing the serial number of products have been removed or defaced, (ii) products are not purchased from an authorized Atlona dealer or reseller. A comprehensive list of Atlona's authorized distributors, dealers and resellers can be found at www.atlona.com.

Atlona, Inc 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>