

## User Manual

# HDMI/Mini-DisplayPort to Mini-DisplayPort Scaler Box AT-HD620



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## INTRODUCTION

The HDMI + Mini-DisplayPort (MDP) to MDP with Stereo Audio scaler and switcher box allows user to extend the usage of their MDP monitor. This device can convert HDMI signal from any HDMI enabled source (Blu-Ray, PS3, Xbox, Cable Box, TiVo and so on) to a Mini DisplayPort monitor. The scaler is able to upconvert any HDMI resolution to match the native resolution of Apple iMac 27" (2560x1440) and Apple 24" (1920x1200). The scaler is capable of scaling to up to dual link resolutions. The HD650 will perfectly work with other Mini Display-Port and DisplayPort monitors as well. Above we had just listed the more popular displays.

The switching abilities of the AT-HD620 allows users to have HDMI source as well as Mini DisplayPort source connected at the same time and switch between them rather than disconnecting and reconnecting cables each time user wants to view HDMI source or Work on the Laptop and use Apple iMac 27" or Apple 24" as a display.

## PACKAGE CONTENTS

- HDMI & MDP to MDP with Stereo Audio converter/switcher
- IR Remote Control
- 5V DC adaptor
- Operation manual

## FEATURES

- HD620 capable of scaling any HDMI source to resolutions up to 2560x1440
- Supports native resolutions of Apple iMac 27" (2560x1440) and Apple 24" LED
- HDCP1.1 and DisplayPort 1.1a compliant
- HDMI and Mini DisplayPort inputs and Mini DisplayPort Output Switch and scaler
- Supports 50/60Hz frame rate conversion with output 60Hz, which would allows users from all over the world to use their HDMI equipment
- Supports 3-D motion video adaptive, 3-D de-interlacing, hue, saturation, sharpness, RGB (color tone) level, and aspect ratio size
- User has an ability to control HD620 via supplied IR remote or Manual button selection
- Mini DisplayPort Input is pass-through only, no scaling.
- Compact size with elegant design

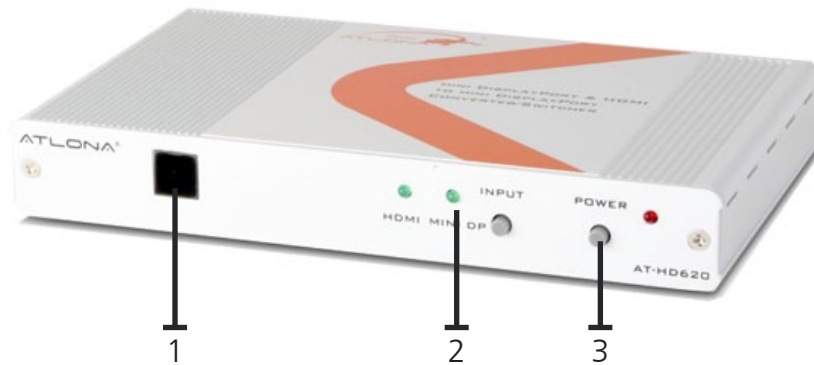
## SPECIFICATIONS

Frequency Bandwidth	165 MHz
Input Ports	1 x HDMI (scaling), 1 x Mini-DisplayPort (by-pass)
Output Ports	1 x Mini-DisplayPort, 1 x Stereo Audio
Input/Output Resolution	SDTV: 480i/p, 576i/p @ 50/60Hz HDTV: 720p@60Hz / 1080i@25/30Hz / 1080p@50/60Hz Computer: VGA 640x480@60, 72, 75, 85Hz SVGA 800x600@56, 60, 72, 75, 85Hz XGA 1024x768@60, 72, 75, 85Hz SXGA 1280x1024@60, 75, 85Hz UXGA 1600x1200@60Hz WXGA 1280x800@60Hz WSXGA 1680x1050@60Hz WUXGA 1920x1200@60Hz WQHD 2560 X 1440@60Hz
ESD Protection	Human body model: ± 8kV (Air-gap discharge) ± 4kV (Contact discharge)
Power Supply	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions (inch)	7.08(W) x 4.48(D) x 0.98(H)
Weight(LB)	1.2
Chassis Material	Aluminum
Silkscreen Color	White
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20 ~ 90% RH (non-condensing)
Power Consumption	7.5 W



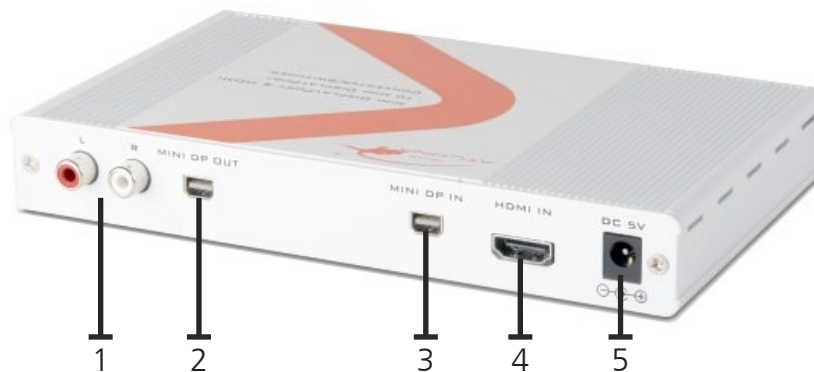
## PANEL DESCRIPTION

### 1. Front Panel



- 1. IR Receiver:** Receive IR signal from the remote control included in the package.
- 2. Input LED & selection button:** Press input button to select your designated input source, the green LED will illuminate with the selected input source.
- 3. Power LED & button:** Press this button to turn ON or set the device to standby mode. Red LED will illuminate when turn to power ON.

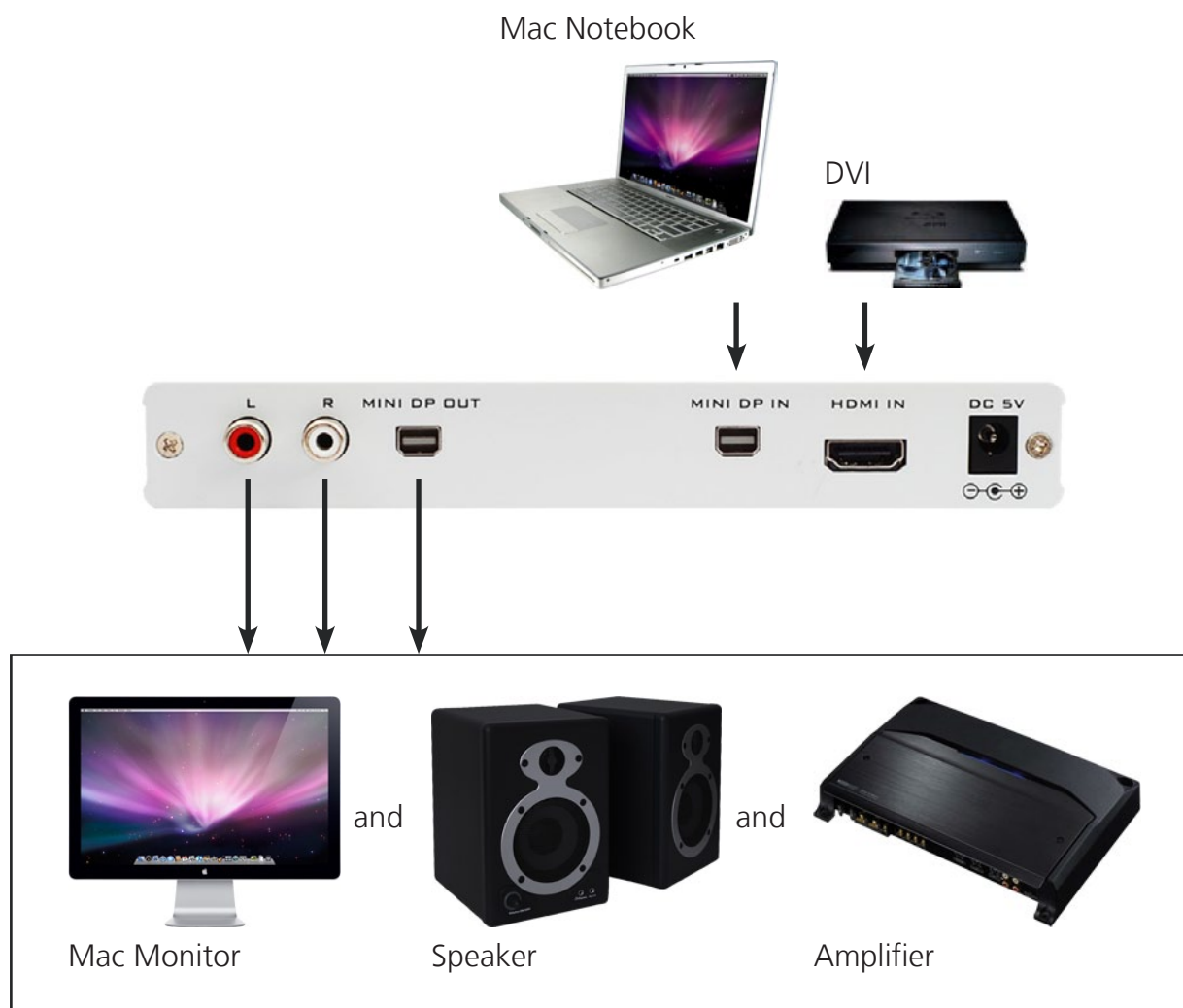
### 2. Rear Panel



- 1. Output L/R:** The Stereo Output is designed to be connected to the Audio Amplifier or Powered Speakers.
- 2. Output MDP:** Mini DisplayPort output need to be connected to the display
- 3. Input MIDP:** Mini DisplayPort input can be connected to a Mini DisplayPort Laptop/Desktop computer.
- 4. Input HDMI:** Connect Any HDMI enabled source
- 5. DC 5V Power:** Connect supplied power supply



## CONNECTION AND INSTALLATION



## 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-HD620. 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 (the AT-HD620) 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>