Atlona SDI to PC/HD Scaler with Audio

AT-HSDI-VGA

User Manual

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Introduction

With built in scaling the Atlona SDI to PC/HD Scaler w/Audio takes SD, HD, and 3G SDI signals and adapts them to component or VGA video formats with resolutions up to 1080p on component or 1920x1200 on VGA. The AT-HSDI-VGA also re-clocking technology which allows you to extend your SDI signals up to 330ft (100M) with 3G, 660ft (200M) with HD, and 1000ft (300M) with SD. Simultaneously run an SDI and PC/HD display.

Package Contents

- 1 x AT-HSDI-VGA
- 1 x 5V/2.6A DC power universal adaptor
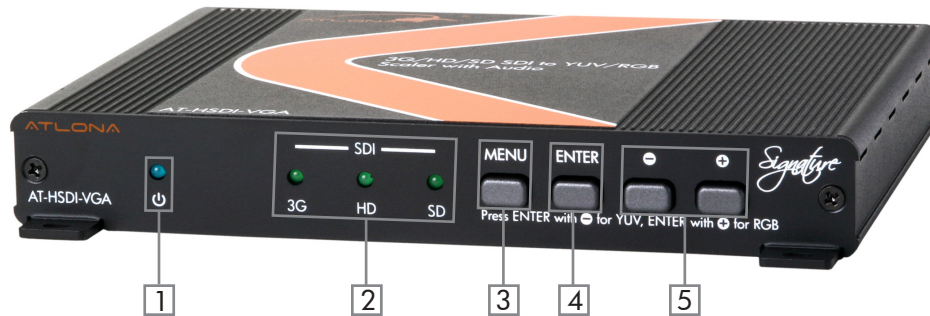- 1 x User Manual

Features

- Scale any SDI format to VGA or component video at resolutions up to 1080p or 1920x1200
- Built in equalizers allowing SDI signal to go as far as 330ft (100M) on 3G, 660 feet (200M) on HD and as far as 1000ft (300M) on SD
- Option of Digital S/PDIF or Analog 2CH audio output
- Compatible with SD, HD, and 3G SDI formats

Specification

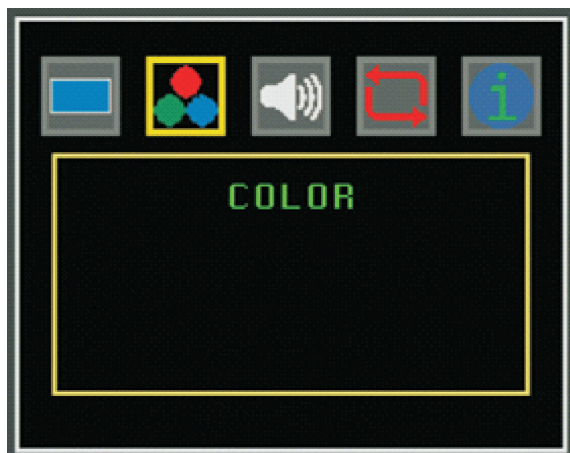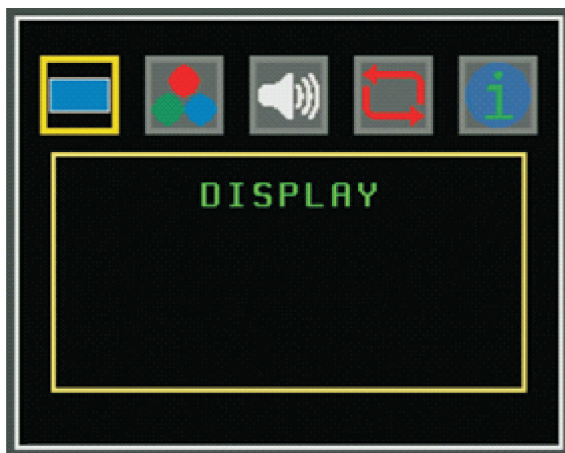|	
SDI Transmission Rates	2.970 Gbit/s and 2.970/1.001 Gbit/s
Input Port	1 x HD15 (SD/HD/3G - SDI)
Output Port	1 x BNC (SD/HD/3G - SDI)
	1 x VGA/Component Video
	1 x S/PDIF
	1 x RCA
Input Resolutions	480i thru 1080p
Output Resolutions	VGA: up to 1920x1200
	Component: up to 1080p
SDI Output Distances	3G up to 330 Feet (100M)
	HD up to 660 Feet (200M)
	SD up to 1000 Feet (300M)
Dimensions (WxDxH)	7.09x5.59x1 (inch) or 180x142x25 (mm)
Weight	0.96lbs or 435g
Power consumption	9.3W
Temperature	Operating: 32°F thru 104°F or 0°C thru 40°C
	Storage: -4°F thru 140°F or -20°C thru 60°C

Panel Description
Front Panel

1. Power indicator, the LED will glow blue when the AT-HSDI-VGA is plugged into the power outlet.
2. SDI signal detection will light up the green LED that corresponds with the signal quality that is being received.
3. Menu button, used to enter or leave the on screen display menu.
4. Enter button, use it to confirm selection or press together with the - button to default to 720p (component video) or with the + button to default to 1024x768 (VGA)
5. Plus and minus buttons are used to move through the OSD selection or used with the enter button to set to a default output resolution.

1. Input port. Connect your SDI device to this port to be routed to PC/HD or Looped out to an SDI device.
2. Loop out port. Use this port to send your SDI signal to an SDI device, with the built in equalizers you can extend the distance your SDI input can go or stream the signal to an SDI and a PC/HD device simultaneously
3. Audio output ports. Connect to an amp using either digital or analog signals.
4. YUV/RGBHV output port. Connect to your PC or HD display. Use a D-Sub 15pin cable for PC connection and a HD15 to component breakout cable (i.e. AT19072).
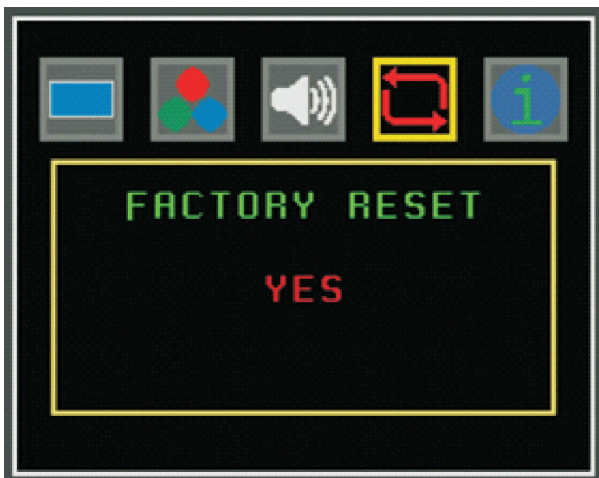5. Power connector. Plug in your DC 5V power supply into this port.

On Screen Display

	640x480 at 60Hz
Output PC Timing with VGA Cable	640x480 at 60Hz
	800x600 at 60Hz
	1024x768 at 60Hz
	1280x720 at 60Hz
	1280x768 at 60Hz
	1280x800 at 60Hz
	1280x1024 at 60Hz
	1360x768 at 60Hz
	1400x1050 at 60Hz
	1440x900 at 60Hz
	1600x1200 at 60Hz
	1680x1050 at 60Hz
	1920x1080 at 60Hz
	1920x1200 at 60Hz
Output HD Timing with D-Sub to 3RCA cable	720 x 480i at 60Hz
	720 x 480p at 60Hz
	720 x 576i at 50Hz
	720 x 576p at 50Hz
	1280 x 720p at 50Hz
	1280 x 720p at 60Hz
	1920 x 1080i at 50Hz
	1920 x 1080i at 60Hz
	1920 x 1080p at 50Hz
	1920 x 1080p at 60Hz
Size	Full
	Over Scan
	Under 1
	Under 2
	Letter Box
	Pan Scan
Exit	

Contrast	0 - 255 (105)
Brightness	0 - 192 (96)
R	0 - 255 (128)
G	0 - 255 (128)
B	0 - 255 (128)
R Offset	0 - 64 (32)
G Offset	0 - 64 (32)
B Offset	0 - 64 (32)
Exit	

SDI AUDIO

GROUP1

SDI Audio	Group 1
	Group 2
	Group 3
	Group 4
	Auto
	Off

Group 1 consists of normal sound synced with video
Group 2 has just the vocal sound
Group 3 has just the background music
Group 4 will be determined by the user and can encompass any other audio group needed.
Auto defaults to the first available group of audio that the AT-HSDI-VGA receives.

FACTORY RESET

YES

Selecting 'factory reset' will return the settings to output timing 1024x768@60Hz, size full screen, Color will return to the values in the brackets of the color table, and SDI Audio will reset to Auto.

INFORMATION

INPUT: 1920X1080
OUTPUT:1280X800
Revision: V1.01

Information will display the current timing of your input and output, the revision number will be the current firmware version installed into the AT-HSDI-VGA.

Connections and Installation

SDI Camcorder

SDI Display

Amp
AT-PA100

PC/HD Display
Use cable D-Sub 15pin for PCs and
3RCA cable for HD displays

Safety Information

Safeguards

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

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

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

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-HSDI-VGA. 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-HSDI-VGA) 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