

User Manual

**DVI to VGA or Component Scaler with DVI loop-out
AT-PC530**



TABLE OF CONTENTS

1. Introduction	2
2. Features	2
3. Package Contents	2
4. Applications	2
5. Specification	3
6. Panel Descriptions	4
6.1 Front Panel	4
6.2 Rear Panel	4
7. DVI-D connector Pin Assignment	5
8. OSD Operation	5
9. Connection Diagram	6
10. Support Resolution	7
11. Safety Information	8
12. Warranty	9
13. Atlona Product Registration	10

INTRODUCTION

Atlona Technologies new AT-PC530 is an innovative Scaler designed to convert DVI (digital) signal into variety of HDTV or Computer resolutions through Component or VGA outputs. This unique scaler/converter handles input and output signal at resolutions up to 1920x1200 or 1080p. The PC530 is featured with an On Screen Display selection to enhance optimal video performances. Along with being HDCP compliant, the AT-PC530 support DVI resolution from VGA (640x480) up to WUXGA (1920x1200) and scale it to Component or VGA to resolutions up to 1080p or 1920x1200.

FEATURES

- The AT-PC530 is able to accept DVI resolution from 640x480 to 1920x1200 and scaler them up or down to either component video or vga at resolutions up to 1920x1200 or 1080p.
- The output resolution can be selected via IR Remote control or through On Screen Display
- The On Screen Display allows user to adjust brightness, contrast, color, RGB level and H-V position.
- PC530 features a Noise Reduction and Overscan/ Underscan adjustments.
Note: The DVI-D input is HDCP compliant which means if input is HDCP encrypted then DVI loop-out will also be HDCP encrypted. In this case the PC/component output will be turned off.

PACKAGE CONTENTS

- Atlona DVI (Digital) to VGA or Component Scaler
- IR Remote control
- 5V DC power adaptor (universal)
- Operation Manual

APPLICATIONS

- DVI signal to be displayed on HDTV

SPECIFICATIONS

Frequency Bandwidth	165MHz
Input Port	1 x DVI (Digital Only)
Output Port	1 x Component, 1 x VGA (15pin), 1 x DVI loop-out
Input Resolution	PC: VGA 640x480@60/72/75/85, SVGA 800x600@56/60/72/75/85, XGA 1024x768@60/72/75/85, SXGA 1280x1024@60/75/85, UXGA 1600x1200@60, WXGA 1280x800@60, WSXGA 1680x1050@60, WUXGA 1920x1200@60
Output Resolution	SD: 480i/480p/576i/576p HD: 720p/1080i/1080p@50,60 PC: VGA 640x480@60, SVGA 800x600@60, XGA 1024x768@60, SXGA 1280x1024@60, UXGA 1600x1200@60, WXGA 1280x800@60, WSXGA 1680x1050@60, WUXGA 1920x1200@60
Power Supply	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human body model: ± 8kV (air-gap discharge) ± 4kV (contact discharge)
Dimensions (mm)	180(W) x 132(D) x 25(H)
Weight (g)	480
Chassis Material	Aluminum
Silkscreen Color	Black
Operating Temperature	0 ⁰ C ~ 40 ⁰ C / 32 ⁰ F ~ 104 ⁰ F
Storage Temperature	-20 ⁰ C ~ 60 ⁰ C / -4 ⁰ F ~ 140 ⁰ F
Relative Humidity	20~90% RH (non-condensing)

PANEL DESCRIPTION

1. Front Panel



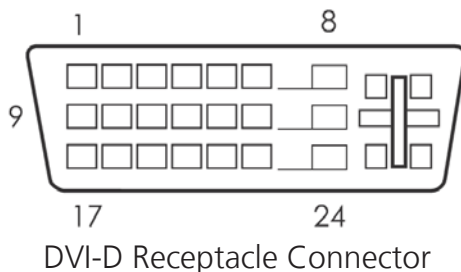
1. DVI BYPASS: The DVI Bypass allows users to connect a local display. The resolution on the bypass output would be the same as incoming resolution.
2. IR receiver: IR receiver picks up IR signal from the included remote control
3. PC & HD LED Indicator: These LEDs shows the output selection timing format. Only one Red LED will illuminate according to the setting.
4. Menu & +/- buttons: Press menu button to show On Screen Display selection on the display and press + or – buttons to move to your desire setting.
5. Power button & LED Indicator: Press this button to switch on the desired device or set it to standby mode. The LED will illuminate in green when the power is on and red when power is off.

2. Rear Panel



1. DC 5V: Plug the 5V DC power supply into the unit and connect the adaptor to an AC wall outlet.
2. OUTPUT Cr/Pr, Cb/Pb & Y/HD: Connect a component video display to this output
3. OUTPUT PC: Connect a VGA cable to a monitor
4. INPUT DVI: Connect with DVI cable from your source

DVI-D CONNECTOR PIN ASSIGNMENT



Digital-Only Connector Pin Assignments					
Pin	Signal Assignment	Pin	Signal Assignment	Pin	Signal Assignment
1	T.M.D.S Data2-	9	T.M.D.S Data1-	17	T.M.D.S Data0-
2	T.M.D.S Data2+	10	T.M.D.S Data1+	18	T.M.D.S Data0+
3	T.M.D.S. Data2/4 Shield	11	T.M.D.S. Data1/3 Shield	19	T.M.D.S. Data0/5 Shield
4	N/A	12	N/A	20	N/A
5	N/A	13	N/A	21	N/A
6	DDC Clock	14	+5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	Ground (for +5)	23	T.M.D.S. Clock+
8	No Connect	16	Hot Plug Detect	24	T.M.D.S. Clock-

OSD OPERATION

1 st Tier Option	2 nd Tier Option	Adjustment
CONTRAST	-	0 ~ 100 of Contrast Level
BRIGHTNESS	-	0 ~ 100 of Contrast Level
FINETUNE	- HUE - SATURATION - SHARPNESS - EXIT	0 ~ 100 of Hue Level 0 ~ 100 of Saturation Level 0 ~ 100 of Sharpness Level Back to 1st Tier
COLOR	- RED - GREEN - BLUE - EXIT	0 ~ 100 of Red Color Level 0 ~ 100 of Green Color Level 0 ~ 100 of Blue Color Level Back to 1st Tier
SIZE	-	FULL / OVERSCAN / UNDERSCAN / LETTERBOX / PAN-SCAN
OUTPUT	-	NATIVE / VGA / SVGA / XGA / SXGA / UXGA / 480i / 480p / 720p@60Hz / 1080i@60Hz / 1080p@60Hz / 576i / 576p / 720p@50Hz / 1080i@50Hz / 1080p@50Hz / WXGA / WSXGA / WUXGA
AUDIO	-	HDMI / EAR PHONE / OPTICAL

1 st Tier Option	2 nd Tier Option	Adjustment
OSD	- HPOSITION - VPOSITION - TIMER - BACKGROUND - EXIT	0 ~ 100 of OSD Horizontal Position 0 ~ 100 of OSD Vertical Position 0 ~ 100 of OSD Existing Time (sec.) 0 ~ 100 of OSD Transparent Level Back to 1st Tier
INFORMATION	-	SOURCE (Input Interface) INPUT (Input Resolution) OUTPUT (Output Resolution) VERSION (Firmware Version)
EXIT	-	Close OSD Menu

CONNECTION DIAGRAM



SUPPORT RESOLUTION

	DVI-D INPUT	VGA Output	Component Output
	PC/HD		SD/HD
480I/576I (NTSC/PAL)			v
480P/576P			v
720P@(50/60)			v
1080I@(25/30)			v
1080P@(50/60)			v
VGA@(60/72/75/85)	v	v	
SVGA@(56/60/72/75/85)	v	v	
XGA@(60/70/75/85)	v	v	
SXGA@(60/75/85)	v	v	
UXGA@60	v	v	
WXGA@60(1280x800)	v	v	
WSXGA@60(1680x1050)	v	v	
WUXGA@60(1920x1200)	v	v	

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-PC530. 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.

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