



ATLONA
PROFESSIONAL 1 1- INPUT VIDEO SCALER
WITH DUAL HDMI OUTPUT
AT-LINE-PRO3

USER MANUAL



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INTRODUCTION

Atlona's AT-LINE-PR03 is an 11-input switcher with built in High Quality Scaler, designed to switch between all of your AV devices and scale them to the native resolution of your displays. This unit is designed to upscale digital/analog video signal from 2 Composite, 1 S-Video, 2 Component, 1 VGA, 1 DVI-I and 4 HDMI input sources, to 2 mirrored HDMI output of wide-range HDTV and PC resolutions, up to 720p or 1080p and WUXGA (1920 x 1200.) Besides video upscaling, this unit also converts digital/analog audio signal to digital format, then output either through HDMI syncing with the video, or Coaxial S/PDIF separately. AT-LINE-PRO3 has a comprehensive OSD menu that allows user to select a variety of output resolutions and adjust for best picture quality. Along with the ability of equalization and amplification, this HDCP Compliant Scaler will also convert between PAL and NTSC.

FEATURES:

- 11-inputs: 2 x Composite AV, 1 x S-Video, 2 x Component, 1 x VGA, 1 x DVI-I and 4 x HDMI.
- 2 x mirrored HDMI outputs (output signal will be identical on both outputs)
- Supports high definition resolutions 720p, 1080i, 1080p
- Both digital and analog inputs are format converted and pixel re-scaled
- 50Hz/60Hz conversion, perfect for customers who have USA TV's in Europe or other way around(PAL/NTSC)
- Supports VGA and DVI signals with resolutions up to 1920x1080
- VGA shares audio with Composite Video
- Bypass function on VGA and DVI-I port.
- DVI-I support both analog and digital input
- Additional audio output: Analog L/R and Digital Optical.
- 10-bit triple-ADC converter for RGB/YPBPR.
- Dual high quality scaling engines
- Control with IR remote, RS232 and manual input.
- Dual 3-D motion adaptive video de-interlaces.
- 3-D video noise reduction.
- HDCP Compliant
- Operates through on-screen OSD menu control and remote control.

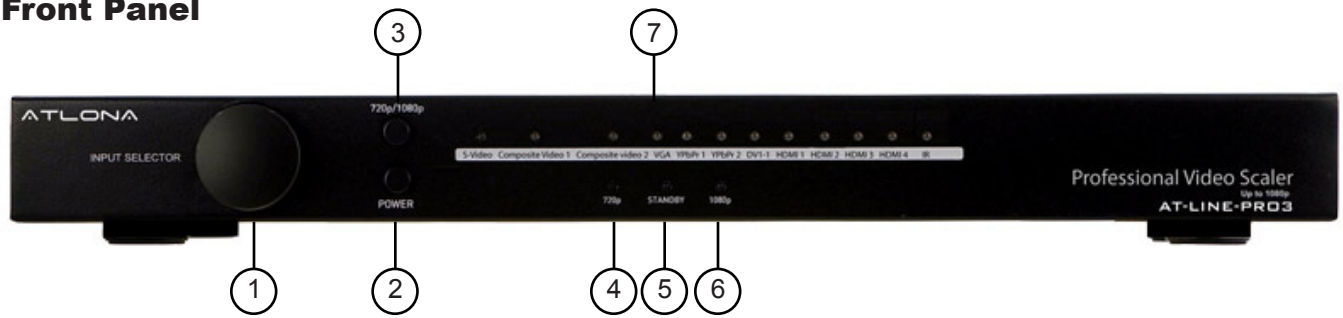
PACKAGE CONTENTS:

1. Atlona AT-LINE-PRO3 Scaler Box.
2. Remote Controller
3. 5V DC Power Supply Adaptor (universal 110/220v)
4. Operation Manual
5. Rack ears (pair) x 1

SPECIFICATIONS

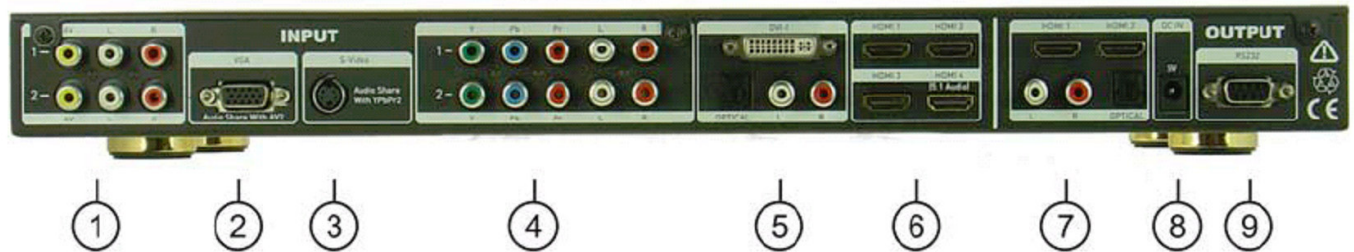
- Digital Video Amplifier Bandwidth: 1.65 Gbps
- Input DDC Signal: 5 volts
- Input Video Signal: 1.2 volts p-p
- Output/Input Resolutions: up to 1080p
- Inputs: 2 x Composite AV, 1 x S-Video, 2 x Component, 1 x VGA, 1 x DVI-I and 4 x HDMI (all with audio)
- Outputs: 2 x HDMI (Video/Audio) or route Audio through Digital Optical or Analog Audio outputs
- RS232 Control Port
- Power Supply: 5V DC (universal 110/220v)
- Dimensions: 17.3"W x 1.7 "H x 7.9 "D
- Shipping Weight: 6lbs
- Operating Humidity Range: 5 to 90% RH (no condensation)
- Operating Temperature Range: -5 to +35oC (-41 to +95oF)

Front Panel



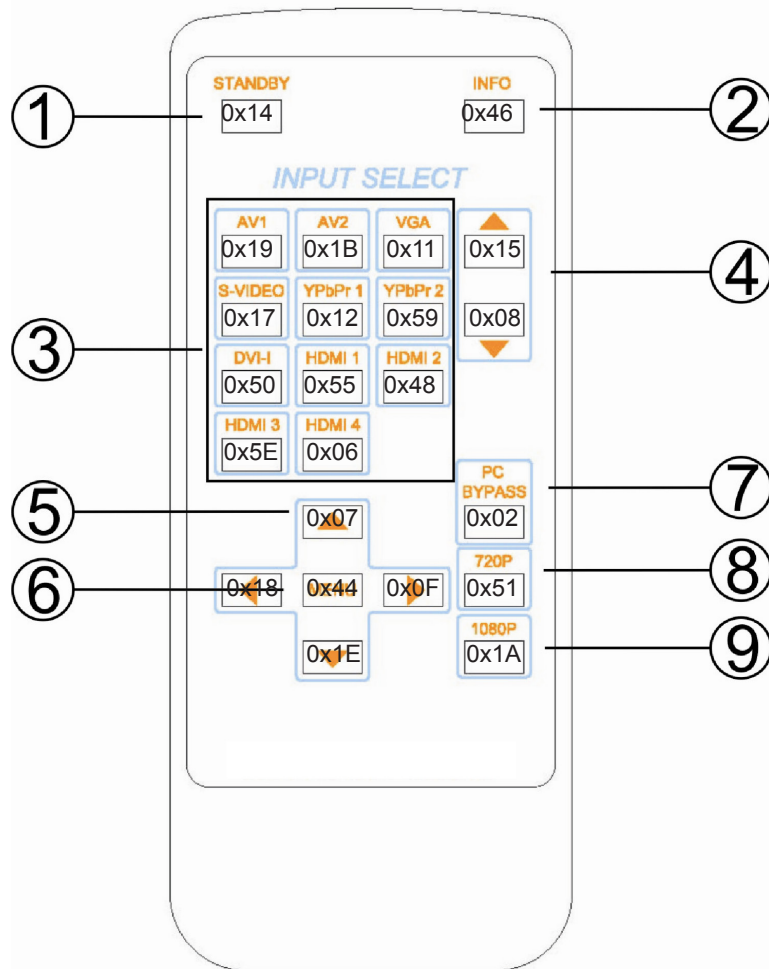
1. Input selection: Knob Left/Right to select desired input selection.
2. Standby: Press Button for power standby..
3. Button of output format rolling between 720P, 1080P and bypass. Bypass function is useful under VGA and DVI-I input.
4. Indicator of 720P.
5. Indicator of power standby. When power is on standby, the LED lights.
6. Indicator of 1080P.
7. Indicator of input sources.

Rear Panel



1. Input: AV1 and AV2 with Stereo Audio.
2. Input: VGA
3. Input: S-Video
4. Input: Component1 (YPbPr) # 1 and Component1 (YPbPr) # 1 with Stereo Audio.
5. Input: DVI-I with audio R/L and optical.
6. Input: HDMI1 - 4 (supports audio 5.1)
7. Output HDMI1 and 2 with Stereo Audio and Optical.
8. Input: 5V DC Power supply – (universal 110/240v)
9. RS232

IR REMOTE



1. STANDBY: Press the button once to enter standby mode; press again to power the unit on
2. INFO: Press the button to view the input and output message.
3. INPUT SOURCE: Press any of the button to directly select desired Input source.
4. UP/DOWN: Select between the input sources one by one.
5. UP/DOWN/LEFT/RIGHT: Press UP/DOWN button to move the highlighter bar to the desired parameter in OSD menu. Press LEFT/RIGHT to increase/decrease the setting value of a selected parameter.
6. MENU: Press the button to activate an on screen menu page.
7. PC BYPASS: Press the button to enter bypass mode.
8. 720P: Press the button to directly output 720P.
9. 1080P: Press the button to directly output 1080P.

SYSTEM CODE : 00FF

OPERATION

- 1) Connect the inputs of the AT-LINE-PRO3 into desired sources (such as AppleTV, Blu-Ray Player, PS3, Set Top Box etc)
- 2) Connect the AT-LINE-PRO3 Outputs to desired HD Displays (such as LCD, DLP or any other standard).
- 3) Power on the desired input source you want to show.
- 4) Connect the 5V DC power supply into the unit and turn on the display you want to watch.
- 5) Use IR remote or manually roll the Knob on the front panel to choose desired input source.

NOTE: VGA and AV2 share the same Stereo audio input, S-video and YPBPR2 share the same Stereo audio. Atlona's AT-LINE-PRO3 accepts AV, SV, VGA, YPBPR, DVI-I and HDMI inputs.

OSD MENU

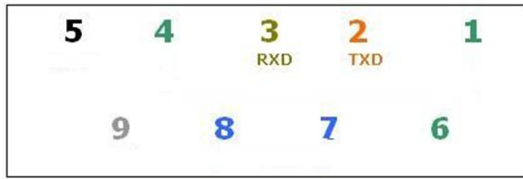
| | | |
|---------|--------------|--|
| PICTURE | CONTRAST | 0~100 of contrast level |
| | BRIGHTNESS | 0~100 of bright level |
| | SATURATION | 0~100 of saturation level |
| | SHARPNESS | 0~100 of sharpness level |
| | HUE | 0~100 of sharpness level |
| | PICTURE MODE | STANDARD/ DYNAMIC/ SOFT /PERSONAL |
| | SCALE | FULL/ OVERSCAN/ UNDERSCAN/ LETTERBOX/ PANSCAN |
| | NR | HIGH/ MID /LOW/ AUTO/ OFF |
| | RESET | Reset the above parameters to the default factory settings |
| PC | CONTRAST | 0~100 contrast level |
| | BRIGHTNESS | 0~100 of bright level |
| | H-POSITION | 0~100 of H position level |
| | V-POSITION | 0~100 of V position level |
| | H-SIZE | 0~20 of H size level |
| | V-SIZE | 0~20 of V size level |
| | RESET | Reset the above parameters to the default factory settings |
| OSD | H-POSITION | 0~100 of H position level |
| | V-POSITION | 0~100 of V position level |
| | DURATION | 5s/ 15s/ 30s/ 60s |
| | HALFTONE | 0~8 of halftone level |
| | RESET | Reset the above parameters to the default factory settings |

OUTPUT FORMAT

| INPUT | |
|--------------------------|---|
| AV/SV | PAL, NTSC |
| YPBPR/HDMI | 480i,480P,576i,576P,720P@[50/60], 1080i@[50/60],1080P@[50/60] |
| VGA/DVI | 800x600@60, 1024x768@60,1152x864@60, 1280 x768@60, 1280 x960@60,1280x1024@60, 1440 x900@60,1400 x1050@60, 1600 x1200@60,1920 x1200@60 |
| VESA-BYPASS | 800x600@60,1024x768@60,1280 x720@60, 1280x1024@60, 1280 x960@60,1440 x900@60,1600 x1200@60,1920 x1080@60 |
| OUTPUT | |
| AV/SV/YPBPR/HDMI/VGA/DVI | 720P@[50/60], 1080P@[50/60] |
| VESA-BYPASS | 800x600@60,1024x768@60,1280 x720@60, 1280x1024@60, 1280 x960@60,1440 x900@60,1600 x1200@60,1920 x1080@60 |

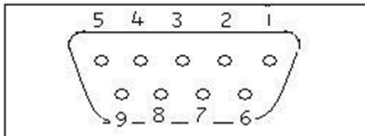
RS232 COMMANDS

Baud Rate: 9600 bps
 Data Bits: 8 bits
 Parity : None
 Stop Bits: 1
 Flow Control: None

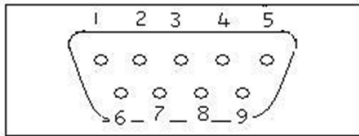


TXD transmit serial data to PC
 RXD receive serial data from PC

The RS232 connector on our product is female type. User can use the USB to RS232 cable. or use the direct serial cable. The female side connect to PC RS232 port, the male port connect to the RS232 port on our product



female type (nine holes)



male type (nine pins)

RS232 CONTROL PROTOCOL

The connection between AT-LINE-PRO3 and remote controller with RS-232 modem cable

| AT-LINE-PRO3 | | Remote Controller | |
|--------------|------------|-------------------|------------|
| PIN | Definition | PIN | Definition |
| 1 | NC | 1 | NC |
| 2 | Tx | 2 | Rx |
| 3 | Rx | 3 | Tx |
| 4 | NC | 4 | NC |
| 5 | GND | 5 | GND |
| 6 | NC | 6 | NC |
| 7 | NC | 7 | NC |
| 8 | NC | 8 | NC |
| 9 | NC | 9 | NC |

RS-232 transmission format:

Baud Rate : 9600 bps

Data Bit : 8 bits

Parity : None

Stop Bit : 1 bit

Command:

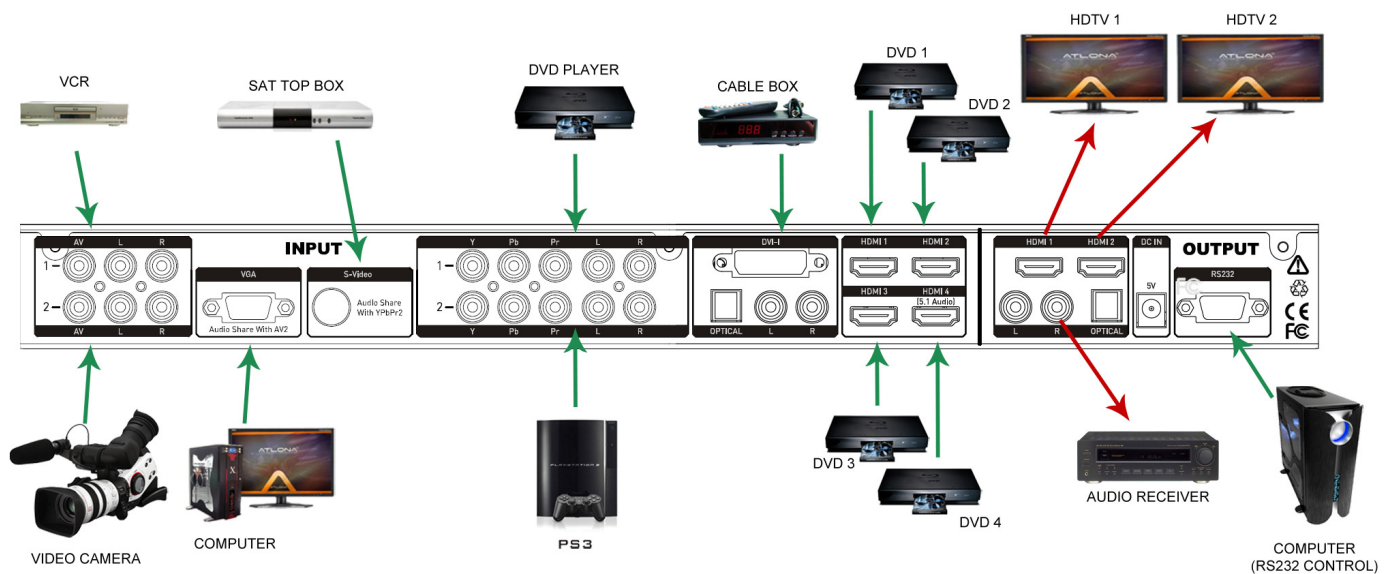
| COMMAND | ACTION |
|---------------------|----------------------------|
| ASCII: " s1" | select source CVBS1 |
| HEX: 0x7C 0x73 0x31 | |
| ASCII: " s2" | select source CVBS2 |
| HEX: 0x7C 0x73 0x32 | |
| ASCII: " s3" | select source VGA |
| HEX: 0x7C 0x73 0x33 | |
| ASCII: " s4" | select source SVIDEO |
| HEX: 0x7C 0x73 0x34 | |
| ASCII: " s5" | select source YPBPR1 |
| HEX: 0x7C 0x73 0x35 | |
| ASCII: " s6" | select source YPBPR2 |
| HEX: 0x7C 0x73 0x36 | |
| ASCII: " s7" | select source DVI |
| HEX: 0x7C 0x73 0x37 | |
| ASCII: " s8" | select source HDMI1 |
| HEX: 0x7C 0x73 0x38 | |
| ASCII: " s9" | select source HDMI2 |
| HEX: 0x7C 0x73 0x39 | |
| ASCII: " sA" | select source HDMI3 |
| HEX: 0x7C 0x73 0x41 | |
| ASCII: " sB" | select source HDMI4 |
| HEX: 0x7C 0x73 0x42 | |
| ASCII: " o1" | select output format 1080P |
| HEX: 0x7C 0x6F 0x31 | |
| ASCII: " o2" | select output format 720P |
| HEX: 0x7C 0x6F 0x32 | |
| ASCII: " bp" | select bypass mode |
| HEX: 0x7C 0x62 0x70 | |
| ASCII: " hh" | show help information |
| HEX: 0x7C 0x68 0x68 | |

| | |
|---------------------|-----------|
| ASCII: " mm" | show MENU |
| HEX: 0x7C 0x6D 0x6D | |
| ASCII: " mu" | UP |
| HEX: 0x7C 0x6D 0x75 | |
| ASCII: " md" | DOWN |
| HEX: 0x7C 0x6D 0x64 | |
| ASCII: " ml" | LEFT |
| HEX: 0x7C 0x6D 0x6C | |
| ASCII: " mr" | RIGHT |

Attention:

1. This equipment has power memory function. When restarting this machine, input selection would be fixed as it was before.
2. Under bypass mode, the indicators of output will go out.
3. Under bypass mode, when switching from VGA or DVI-I to other inputs, the output will be in 1080P.
4. The output will be 1080P when powered on from bypass mode.
5. The bypass key is only useful under VGA and DVI-I input.
6. Besides the given VESA format, the output will be automatically 1080P.

CONNECTION DIAGRAM



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 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 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. Do not use cleaning fluid or aerosols, which could enter the unit and cause damage, fire or electrical shock. Some substances may also mar the finish of the product.

Never open or 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-LINE-PRO3. Opening the product will void the warranty.

Do not attempt to service the unit. Instead disconnect it and contact your Authorized ATLONA reseller or contact ATLONA directly.

1. LIMITED WARRANTY

Atlona Technologies warrants that (a) its products (the “Product”) 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 Customer.

2. CUSTOMER REMEDIES

Atlona Technologies and its suppliers’ entire liability and Customer’s exclusive remedy shall be, at Atlona Technologies’ option, either return of the price paid for the Product, or repair or replacement of the Product that does not meet this Limited Warranty and which is returned to Atlona Technologies with a copy of Customer’s receipt. This Limited Warranty is void if failure of the Product has resulted from accident, abuse, or misapplication. Any replacement Product will be warranted for the remainder of the original warranty period or 3 year, whichever is longer.

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