

Multi-Input Presentation Switcher AT-DRC444



BACK

User Manual

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INTRODUCTION

The Atlona AT-DRC444 is a Multi-Input Presentation Switcher designed with 3 x Audio and Video Switcher platforms built into one product.

The Atlona Multi-Input Presentation switch includes 4 inputs, one output Composite Video Switch; 4 inputs, one output VGA switch; and 2 input DVI and 2 input HDMI to one DVI Output Switch. Each video input is accompanied with its own audio input. Furthermore, the switcher is featured with microphone input and allows user to mix the microphone signal with the main audio in "talk-over" mode. The Atlona DRC444 is designed to be controlled via RS232, RS485 or IR.

FEATURES

- Offers 3 separate switching platforms which includes 4 inputs, one output Composite Video Switch; 4 inputs, one output VGA switch; and 2 input DVI and 2 input HDMI to one DVI Output Switch.
- Either platform (Composite, VGA or DVI/HDMI) could be switched simultaneously, as all 3 Video Platforms are completely separated from each other.
- Each video input is accompanied with its own audio input (total 12 audio inputs)
- Microphone input, allows user to mix the microphone signal with the main audio in "talk-over" mode.
- Video:
 - a) The DVI/HDMI inputs can support extremely high resolutions up to 1920x1200 and fully EDID and HDCP compliant. DVI/HDMI platforms will pass up to 10.2Gbps
 - b) The VGA inputs can support extremely high bandwidth of 750MHz and therefore up to 3200x2400 in resolutions. The VGA platform fully supports DDC.
- c) The Composite video inputs are compatible with NTSC 3.58, NTSC 4.42, PAL, and SECAM formats.
- Audio
 - a) Twelve inputs include four stereo balanced/unbalanced on capture screw connectors on Composite Video Platform, for 3.5mm (1/8-inch) audio inputs on VGA platform and four stereo balanced/unbalanced on capture screw connectors on DVI/HDMI platform.
- b) Each one of the Audio inputs supports separate Audio adjustments and presets.
- Auto-control and Learning function:
 - a) The AT-DRC444 can learn and automatically transmit the RS232/RS485 commands to the Display which allows switching the display on/off or changing inputs.
- Control:
- a) RS-232 input, allows user to control the DRC444 with a 3rd party control system.
- b) RS-232/RS-485 output, programmable output, allows users to send commands to Display's.
- c) IR remote control.
- Rack-mountable, 1U height.
- Internal power supply (100Volt~240Volt AC, 50/60Hz)



PACKAGE CONTENT

- 1 x AT-DRC444
- 1 x Power Cable
- 1 x IR Remote Control
- 1 x RS232 Cable
- 1 x Instructions Manual

SPECIFICATIONS

Video inputs	2 x DVI (DVI-D Only 24+1 Pin Female), 2 x HDMI (Type A female), 4 x VGA (HD15 female), 4 x Composite Video (BNC male)
Video outputs	1 x DVI (DVI-D Only 24+1 Pin Female) , 1 x VGA (HD15 female), 1 x Composite Video (BNC male)
Video resolution	DVI/HDMI up to 1920x1200 or 1080p; VGA up to 3200x2400 @60Hz; Composite Video: NTSC 3.58, NTSC 4.42, PAL, and SECAM
Video bandwidth	DVI/HDMI: 340MHz (10.2Gbps); VGA: 750MHz (-2.8dB) / Crosstalk (-49db@4.9MHz) / 0.5V~2.0Vp-p; Composite Video: 150MHz
Switching Speed	200ns
HDCP	DVI/HDMI Inputs are HDCP Compliant
EDID/DDC	VGA/HDMI/DVI Inputs are EDID/DDC compliant
Audio Inputs	12 Stereo line audio, 1 Mic
Audio Outputs	3 x Stereo unbalanced line audio and 1 x unbalanced programmed audio
Input Connectors	4 x 1/8-inch (3.5mm) – for VGA; 8 x Captive Screw connectors – for DVI/HDMI and Composite and 1 x $\frac{1}{4}$ -inch (6.3mm) – Mic
Audio Frequency	20Hz~20K Hz
CMRR	>90dB @20Hz to 20K Hz
RS232	DB9 (2 = TX, 3 = RX, 5 = GND)
Power supply	100~ 240VAC, 50/60Hz
Power consumption	25W
Dimensions (inch)	W19 x H1.73 x D9.25 - 1U
Dimensions (mm)	W483 x H44 x D235 - 1U
Weight	4lb
Operating Temperature	-20°C ~ +70°C
Operational Humidity	10% ~ 90%



PANEL DESCRIPTIONS

1. Front Panel



- 1. IR sensor
- 2. Power status LED indicator
- 3. DVI/HDMI Selection buttons.
- 4. Composite Video Selection buttons.
- 5. VGA Selection Buttons.
- 6. Volume adjustments and switching between Line Input and Mic Input
- a) Switch between Line Input and Mic Input by pressing a button. The LED will indicate which input is selected.
- b) Turn knob to adjust either a Mic level or a Line Input Level.
- c) Push knob to mute. If Mic is selected, the Mic will mute and if Line Input is selected the Line Input will mute.

2. Rear Panel



- 1) DVI/HDMI Inputs (4 inputs and 1 output)
- 2) Composite Video Inputs (4 inputs and 1 output)
- 3) VGA Inputs (4 inputs and 1 output)
- 4) 3 sets of 4 by 1 Audio Switchers:
 - a. VGA audio: 3.5mm (1/8-inch) 4 by 1 switch
 - b. DVI audio: Balance/unbalance stereo audio on capture screw connector, 4 by 1 switch
 - c. Composite audio: Balance/unbalance stereo audio on capture screw connector, 4 by 1 switch
 - d. Prog. Out: Line Audio Break-out, can be mixed with any other Line Audio Inputs or Mic Audio.
- 5) RS-232 input: Connect to a 3rd party control system
- 6) RS-232 & RS-485 outputs: connect to the display e.g., Projector, LCD, LED or Plasma Display.
- 7) Power Cable Input



IR REMOTE CONTROL



1. Audio volume adjustment:

"Mute": mute audio.

"Audio Lock": keep the last switched audio on, it will not change when another video input is selected.

"- and +": adjust the volume of Line audio or Mic Audio.

2. Video signal switching:

Switch between 3 platforms (DVI/HDMI, VGA and Composite Video); The selection on each platform will also carry audio signal along, unless it's locked.

RS232 CONTROL

Baud Rate: 9600

Data Bit: 8 Parity: None Stop Bit: 1

Series	Function	Feedback code
600%	Mute	Mute ON /Mute OFF
601%	Master volume +	VGA 1 Volume : XX (0~60)
0602%	Master volume -	VGA 1 Volume : XX (0~60)
603%	MIC volume +	MicVolume : XX (0~60)
0604%	MIC volume -	MicVolume : XX (0~60)
LOCK%	Keyboard Lock	System Locked!/System Unlock!
01XX%	Set Line volume to 'XX' 0~60	Line out Volume : XX (0~60)
02XX%	Set MIC volume to 'XX' 0~60	MicVolume : XX (0~60)
0700%	Check Series: Current video source, Switching series, Last video source status, Baud rate	Source: VGA 1 232/485 DVI data: 232/485 AV data: 232/485 VGA data: 232/485 Current data: Baud rate: 9600
0701%	Switch to DVI Input # 1	Source: DVI 1
0702%	Switch to DVI Input # 2	Source: DVI 2
0703%	Switch to HDMI Input # 3	Source: DVI 3

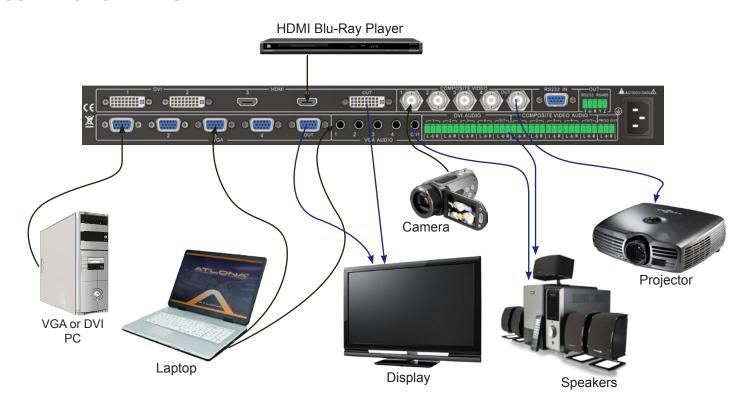


Series	Function	Feedback code
0704%	Switch to HDMI Input # 4	Source: DVI 4
0709%	Switch to VGA Input # 1	Source: VGA 1
0710%	Switch to VGA Input # 2	Source: VGA 2
0711%	Switch to VGA Input # 3	Source: VGA 3
0712%	Switch to VGA Input # 4	Source: VGA 4
0705%	Switch to Composite Video Input # 1	Source: CVIDEO 1
0706%	Switch to Composite Video Input # 2	Source: CVIDEO 2
0707%	Switch to Composite Video Input # 3	Source: CVIDEO 3
0708%	Switch to Composite Video Input # 4	Source: CVIDEO 4
0747%	Lock audio	LOCK VOICE OUT
0748%	Unlock audio input	UNLOCK VOICE OUT
0800%	Check the volume	DVI 1 Volume: XX (0~60) DVI 2 Volume: XX (0~60) DVI 3 Volume: XX (0~60) DVI 4 Volume: XX (0~60) AV 1 Volume: XX (0~60) AV 2 Volume: XX (0~60) AV 3 Volume: XX (0~60) AV 4 Volume: XX (0~60) VGA 1 Volume: XX (0~60) VGA 2 Volume: XX (0~60) VGA 3 Volume: XX (0~60) VGA 4 Volume: XX (0~60) MicVolume: XX (0~60)
0801%	Set Baud rate to 4800 bps	Baud rate: 4800
0802%	Set Baud rate to 9600 bps	Baud rate: 9600
0803%	Set Baud rate to 19200 bps	Baud rate: 19200
0804%	Set Baud rate to 38400 bps	Baud rate: 38400
0805%	Set Baud rate to 57600 bps	Baud rate: 57600
0806%	Set Baud rate to 115200 bps	Baud rate: 115200
/+1xxxx;	Send Command though RS232/485 Output which will follow DVI/HDMI platform	232/485 DVI data: XXXXXXX
/+2xxxx;	Send Command though RS232/485 Output which will follow Composite platform	232/485 AV data: XXXXXXX
/+3xxxx;	Send Command though RS232/485 Output which will follow VGA platform	232/485 VGA data: XXXXXXX
/+0xxxx;	Send Direct Command though RS232/485 Output	232/485 Direct out data: XXXXXXX
0900%	Change all volume input mode	Change to output vol. control/Change to input vol. control



Series	Function	Feedback code
31XX%	Set DVI 1 volume to XX	DVI 1 Volume : XX 0~60
32XX%	Set DVI 2 volume to XX	DVI 2 Volume : XX 0~60
33XX%	Set DVI 3 volume to XX	DVI 3 Volume : XX 0~60
34XX%	Set DVI 4 volume to XX	DVI 4 Volume : XX 0~60
41XX%	Set AV 1 volume to XX	AV 1 Volume : XX 0~60
42XX%	Set AV 2 volume to XX	AV 2 Volume : XX 0~60
43XX%	Set AV 3 volume to XX	AV 3 Volume : XX 0~60
44XX%	Set AV 4 volume to XX	AV 4 Volume : XX 0~60
51XX%	Set VGA 1 volume to XX	VGA 1 Volume : XX 0~60
52XX%	Set VGA 2 volume to XX	VGA 2 Volume : XX 0~60
53XX%	Set VGA 3 volume to XX	VGA 3 Volume : XX 0~60
54XX%	Set VGA 4 volume to XX	VGA 4 Volume : XX 0~60

CONNECTION DIAGRAM





TROUBLESHOOTING

- 1. Image Ghosting is usually related to the low quality cables or extremely long length. Please try replacing cables with extenders or better quality cables.
- 2. If user is not able to connect to the DCR444 via RS232, this may be related to either incorrect COM port being used or incorrect wiring on the serial cable. Please use the supplied RS232.
- 3. Interference on the output signal is usually caused by long cables or if switcher is not grounded. Please rack-mount the switcher and make sure that the rack is grounded properly.



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-DRC444. 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.

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WARRANTY

Limited Warranty

Atlona Technologies warrants that (a) its products (the AT-DRC444) 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.

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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.

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