

Installation and Operation Manual

ATEM Camera Converter

ATEM Studio Converter





Welcome to ATEM Live Production!

Thank you for purchasing a Blackmagic Design converter for your live production work!

ATEM Camera Converter and ATEM Studio Converter allows you to extend your broadcast SDI and consumer HDMI cameras using low cost optical fiber! Imagine connecting to cameras at remote locations on racing tracks, live sporting venues or even massive golf courses! With ATEM Camera Converter you can have more cameras closer to the action for the most amazing shots in live production! ATEM Camera Converter not only converts your camera to optical fiber, but it also includes talkback, external microphone input, program return feed, tally and built in battery power source! You can place cameras in multiple locations miles away from your switcher while keeping full broadcast HD video quality!

ATEM Studio Converter is the perfect partner for your ATEM Camera Converters for internally distributed program output and talkback support. Multiple ATEM Studio Converters can be looped to allow talkback support to more than 4 cameras.

Blackmagic Converter Utility is used to change settings and update the internal software in your ATEM converter. The latest version of Converter Utility can always be downloaded from our website at www.blackmagicdesign.com/support. We think it should take you approximately 5 minutes to complete installation. Before you install Converter Utility, please check our website and click the support page to download the latest updates to this manual and Converter Utility software. Lastly, please register your ATEM Camera Converter or ATEM Studio Converter when downloading software updates.

We would love to keep you updated on new software updates and new features for your ATEM converters. Perhaps you can even send us any suggestions for improvements to the converters. We are constantly working on new features and improvements, so we would love to hear from you!

A handwritten signature in black ink that reads "Grant Petty".

Grant Petty
CEO Blackmagic Design

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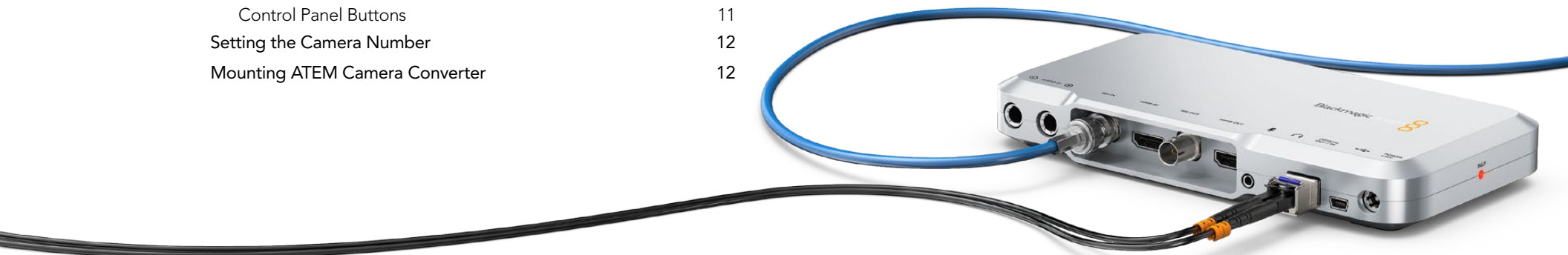
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ATEM Camera Converter



ATEM Studio Converter

Introducing ATEM Converters

ATEM Camera and Studio Converters connect to switchers, such as ATEM production switchers, and allow cameras to be connected over long distances using low cost, fiber optic cable.

ATEM Camera Converter

ATEM Camera Converter connects to any camera with HDMI or SDI output in SD, HD and 3Gb/s HD-SDI formats. It is used to send video, audio, tally and talkback signals via optical fiber between the camera unit and a remote unit, for connection to a switcher. It can be battery operated or run on mains power.

When only one camera is being used, a pair of ATEM Camera Converters are required to extend the camera over a long distance and provide talkback between the camera operator and the switcher operator.

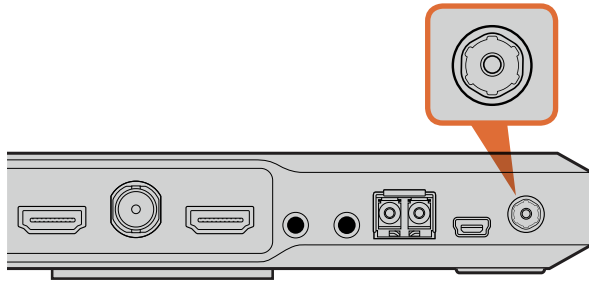
ATEM Studio Converter

When multiple cameras are being used, ATEM Camera Converters can be partnered with an ATEM Studio Converter. Each ATEM Studio Converter supports connections to 4 ATEM Camera Converters. If the switcher operator needs to communicate with more than 4 cameras, additional ATEM Studio Converters can be looped together and connected to more ATEM Camera Converters.

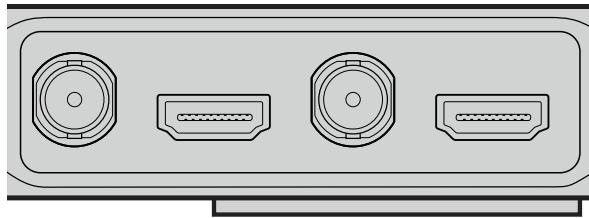
Single mode optical fiber cable with LC connectors are used to connect ATEM Camera Converter, ATEM Studio Converter and other optical fiber SDI products from Blackmagic Design.

ATEM Camera and Studio Converters are connected to a switcher via SDI cables.

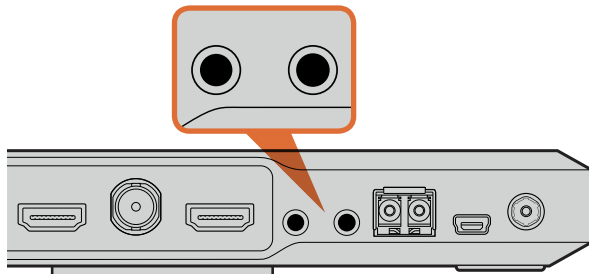
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Plug in your power source and charge the internal battery via the 12V to 31V power connector.



Connect your camera via the SDI or HDMI input, and your monitor via the SDI or HDMI output. By default, ATEM Camera Converter uses embedded SDI or HDMI audio from your camera.



Connect your headset to ATEM Camera Converter via standard 3.5mm TRS phone inputs.

Getting Started with ATEM Camera Converter

The first thing you'll want to do is power your ATEM Camera Converter, plug in your camera, headset and a monitor. You can also plug in an external audio source, such as a mixing desk or microphone.

Plugging in your Power

ATEM Camera Converter features both an internal rechargeable battery which gives you mobility in the field, and a connector for plugging in the power adaptor supplied with ATEM Camera Converter. ATEM Camera Converter's power connector supports an input range of 12V to 31V so you can even use an external camera battery. The internal battery will charge when a power source is connected.

Plugging in your Camera

You can plug in your camera using ATEM Camera Converter's SDI or HDMI connectors. SDI connections are robust, industrial standard and reliably used with long cables up to 300 feet or 100 meters in length. If your camera has a HDMI output, plug in via a HDMI type A connector and cable.

Make sure your camera output is set to a format supported by your live production switcher. 1080p cameras will usually need to be adjusted to output 1080i or 720p for broadcast. If you're connecting to an ATEM switcher, check the switcher video standard and then set the camera to the same video standard, e.g., 1080i59.94.

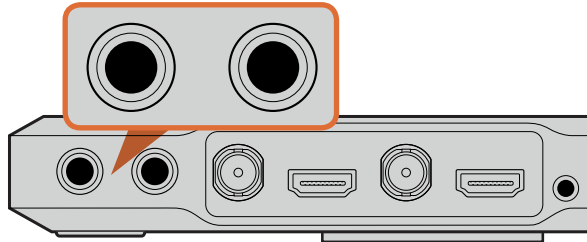
Plugging in your Headset

Plug your talkback headset into ATEM Camera Converter's standard 3.5mm stereo analog microphone and headphone inputs. An iPhone-compatible headset can be connected using only the headphone jack. However, if both an iPhone-compatible headset and external microphone are connected at the same time, only the external microphone will be used.

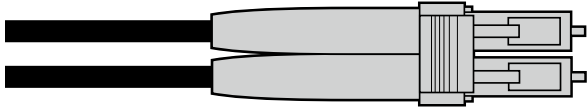
Plugging in your Monitor

Plug your monitor into ATEM Camera Converter's SDI or HDMI output. Using a monitor lets you view the camera output or the program output from a switcher. ATEM switchers send tally via the SDI signal. When the camera is switched to the program output, the tally signal will activate a red border on your attached monitor to show the camera is on air.

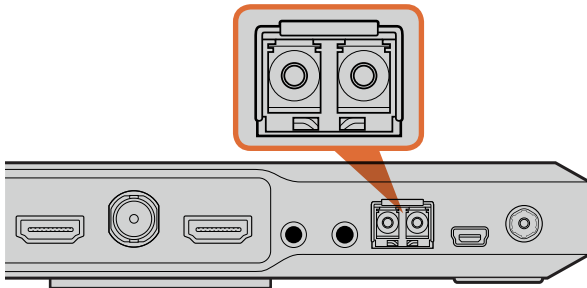
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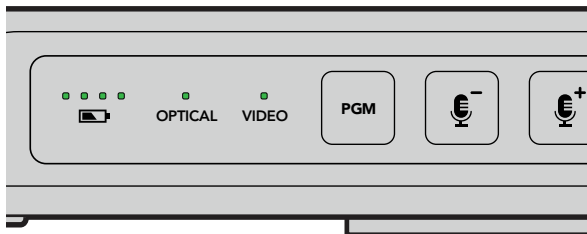
Connect external audio equipment to ATEM Camera Converter via TRS phone connectors.



Optical fiber patch cord with two LC connectors.



ATEM Camera Converter's optical fiber SFP module.



When a valid SDI or HDMI signal is present, you'll see ATEM Camera Converter's Video status indicator illuminated.

Plugging in your Audio

ATEM Camera Converter supports 2 channels of camera audio, which are carried on audio channels 1 & 2 of the optical fiber SDI connection. By default, ATEM Camera Converter uses the embedded audio from your camera's microphone. However, if you want to plug in an external audio source, connect your audio equipment to ATEM Camera Converter's two balanced 1/4" TRS inputs. When external audio is connected it will be used instead of the embedded camera audio.

The 1/4" TRS connectors accept stereo analog audio at microphone level and are carried on audio channels 1 & 2 of the optical fiber SDI connection.

Connecting ATEM Converters via Optical Fiber Cables

You'll now want to connect your ATEM Camera Converter to a second Camera Converter or an ATEM Studio Converter via duplex single mode optical fiber cables with LC connectors. A pair of optical fiber cables are typically known as a patch cord and have the connectors' positions swapped on one end so optical out is connected to optical in on each unit.

Plugging in Optical Fiber LC Connectors

To plug optical fiber connectors into your ATEM Converters:

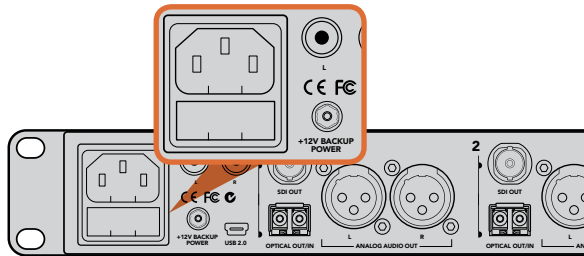
Step 1. Plug one end of the patch cord to your ATEM Camera Converter's SFP module.

Step 2. Plug the other end of your patch cord to the SFP module on the second ATEM Camera Converter. If you are connecting multiple cameras to an ATEM Studio Converter, choose an SFP module appropriate for each camera. For example, when connecting camera 1, connect to ATEM Studio Converter's camera 1 module.

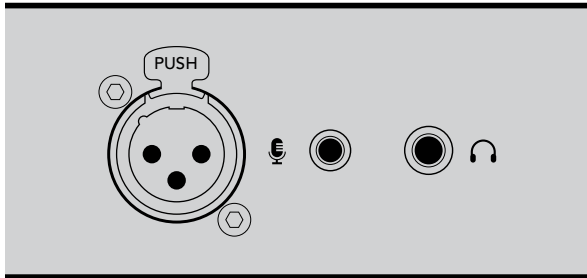
Confirming Your Video Signal

When your ATEM Camera Converter is powered, a camera is plugged in, and a valid SDI or HDMI signal is present, you'll see the control panel Video status indicator illuminated. Additionally, if you have your monitor connected and the PGM button set for camera video, your camera output will be displayed and you'll know your ATEM Camera Converter is working.

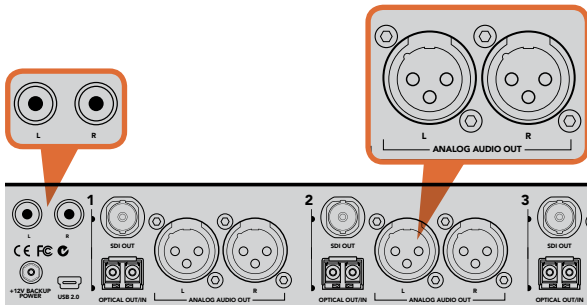
7 Getting Started



Plug in your power source and charge the internal battery via the mains power or 12V to 31V power connector.



Connect your aviation headset via ATEM Studio Converter's front panel TRS phone connectors. You can also plug in an external microphone via the balanced XLR analog input if you want to use talkback without a headset.



Monitor your program or talkback audio on external equipment by connecting to ATEM Studio Converter's RCA Phono outputs. Plus, you can easily connect your cameras' audio to a mixer using the XLR analog audio outputs.

Getting Started with ATEM Studio Converter

The first thing to do is supply power to your ATEM Studio Converter, plug in a headset, and connect to a switcher. You can also plug in an external microphone, such as a gooseneck microphone if you want to use talkback without using a headset. You can even output each camera's audio to a mixer via balanced XLR connectors.

Plugging in Power

Plug in your power via ATEM Studio Converter's mains power input using a standard IEC cable and connector. You can also connect a power adaptor or external camera battery to the 12V to 31V power input. Having 2 power inputs gives you the option of a redundant power connection in case one supply fails or is accidentally disconnected.

Plugging in your Headset

ATEM Studio Converter uses aviation headsets that plug in via the 1/4" TRS headphone and 0.206" TRS microphone jacks. If both a headset and an external microphone are plugged in, only the headset will be used. Talkback audio is embedded into audio channels 15 & 16 of the optical fiber SDI connection.

Plugging in your External Microphone

If you want to use an external microphone, plug in via the balanced XLR analog input on ATEM Studio Converter's control panel.

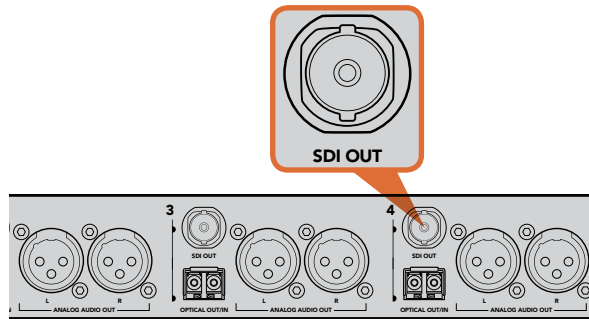
Outputting Camera Audio

You can easily connect your camera audio outputs to an external mixing desk by plugging into the balanced XLR analog outputs on ATEM Studio Converter's rear panel.

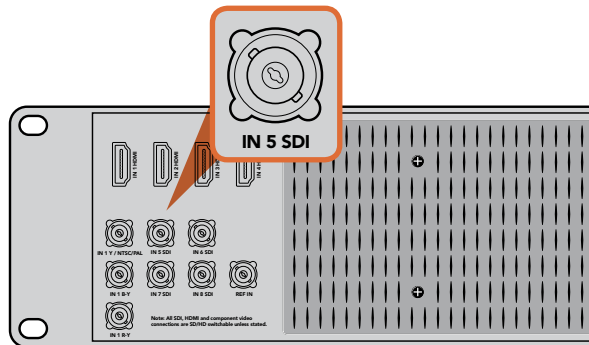
Monitoring your Audio

If you want to monitor your program or talkback audio on external audio equipment such as a Blackmagic Audio Monitor, connect via the RCA Phono outputs on ATEM Studio Converter's rear panel.

8 Getting Started



Connect your ATEM Studio Converter to a switcher by plugging the camera SDI outputs to the SDI camera inputs on the switcher.



Blackmagic Design's ATEM 1/ME production switcher provides 4 SDI camera inputs.

Connecting to a Switcher

The last steps in getting started is plugging into a live production switcher and confirming that your ATEM Converters are working together properly. ATEM Studio Converter should typically be located within close proximity to the switcher so the operator can easily access the talkback buttons.

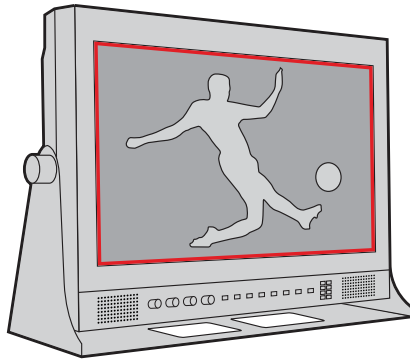
Step 1. Connect each of ATEM Studio Converter's SDI camera outputs to the appropriate SDI camera inputs on your switcher using a BNC connector and cable.

If using an ATEM switcher, tally signals are embedded in the program output so each ATEM Camera Converter can display tally indicators. You'll need to map your switcher buttons, and rename video inputs and Multi View labels to match the camera numbers set on each ATEM Camera Converter. For details, refer to the 'Changing Switcher Settings' and 'Button Mapping' sections of the ATEM Production Switchers manual.

Step 2. Connect your switcher's SDI program output into ATEM Studio Converter's PGM SDI input using a BNC connector and cable.

If using more than four cameras, you can loop multiple ATEM Studio Converters together. For more detailed descriptions on how to connect to a switcher, including looping multiple ATEM Studio Converters, refer to 'Connecting to an ATEM Switcher' on page 17.

9 Getting Started



ATEM Camera Converter can show a red tally border on an attached monitor when its camera is on-air.

Confirming your ATEM Converter Set Up

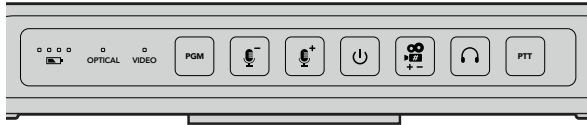
After you have connected your ATEM Converters to a live production switcher you'll want to confirm that everything is working.

The first thing to check is your talkback. Have the switcher operator and camera operators speak to each other using their PTT buttons and headsets. If the camera operators and the switcher operator can communicate with each other you'll know the talkback is working.

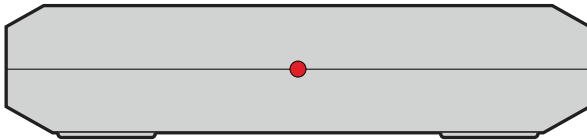
You'll also want to check the switcher is getting a valid signal from your connected cameras. You can check this by having the switcher operator switch each camera to the preview or program output. If all your camera signals can be seen on the switcher output, you'll know your ATEM Converters are working and set up correctly.

You can also check your tally indicators for each ATEM Camera Converter by having the switcher operator switch each camera to the program output. If their tally indicators are not working as they should, reset the camera number on each ATEM Camera Converter. Refer to the section 'Setting the Camera Number' on page 16 for a detailed description.

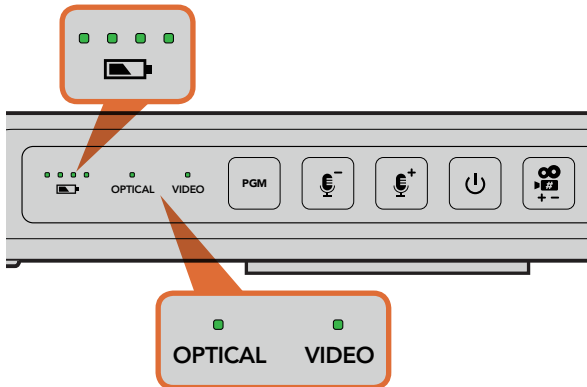
10 Using ATEM Camera Converter



ATEM Camera Converter's control panel.



The tally lights on each side of the ATEM Camera Converter glow red when your camera is live on the program output of an ATEM production switcher.



Battery level, optical, and video signal status indicators.

Using ATEM Camera Converter

ATEM Camera Converter's control panel features buttons for adjusting headset and microphone volume, activating talkback, program/camera monitoring, powering on and off, and setting the camera number. There are also 5 status indicators for battery level, optical signal, SDI or HDMI signal, and tally.

Status Indicators

Tally lights

These lights illuminate when a tally signal is received from the program output of an ATEM switcher. By watching the two red tally lights on opposite sides of ATEM Camera Converter, your talent and camera operator can see when they are on air.

Battery level

On the far left of the control panel are four green battery level indicators. The number of illuminated indicators decrease as the battery level decreases. When the remaining single indicator starts flashing, there's approximately 10 minutes of battery power left, so you should plug in an external power source or switch to another charged ATEM Camera Converter. The battery will last for over 2 hours of continuous use and requires approximately 8 hours for a complete recharge.

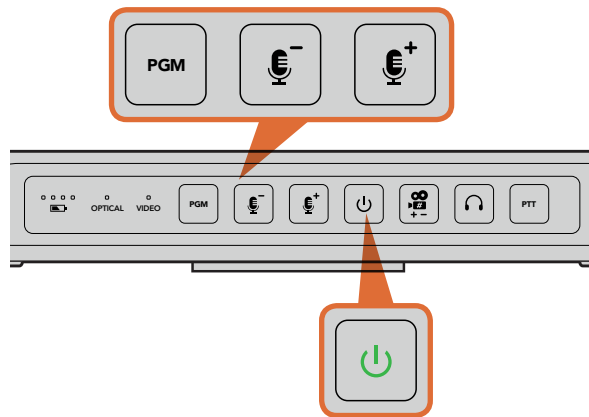
OPTICAL

Next to the battery level LEDs is the OPTICAL indicator. This lights up when an optical fiber SDI video signal is detected by ATEM Camera Converter. Use this indicator to confirm a valid optical SDI signal is being sent or received.

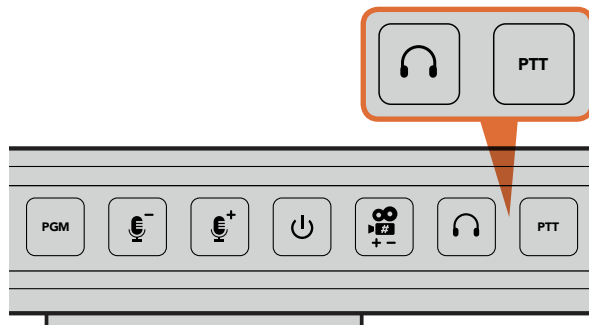
VIDEO

The VIDEO indicator lights up when a valid SDI or HDMI video signal is detected by ATEM Camera Converter. Use this indicator to confirm that your camera input signal is present.

11 Using ATEM Camera Converter



PGM button, microphone volume level and power on/off buttons. The buttons will illuminate when pressed or activated.



Talkback headphone volume, and press to talk buttons.

Control Panel Buttons

PGM

Pressing the program (PGM) button selects program video output or camera video output. The selected output will be displayed on the attached monitor.

Microphone Volume Down/Up

The microphone volume buttons provide a quick way to adjust external audio levels. Each press of the microphone volume buttons provide a smooth increase or decrease in volume over 1 second. When maximum or minimum microphone volume is reached, or if at maximum or minimum volume at power up, the relevant button will illuminate for 3 seconds. These buttons do not affect embedded SDI and HDMI audio levels received directly from the camera.

Power On/Off

Press and release to instantly power on. Hold for 1 second to power off.

Camera Number

This button is used to set the camera number on your ATEM Camera Converter so your tally lights function correctly. Refer to the section "Setting the Camera Number" on the next page for a detailed description.

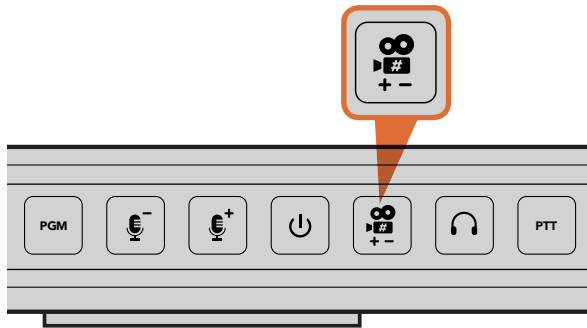
Talkback Headphone Volume

Press this button to increase the volume of the talkback headphones. When maximum volume is reached, or if at maximum volume at power up, the button will illuminate for 3 seconds. The next press will reduce the volume to minimum before the volume is increased again.

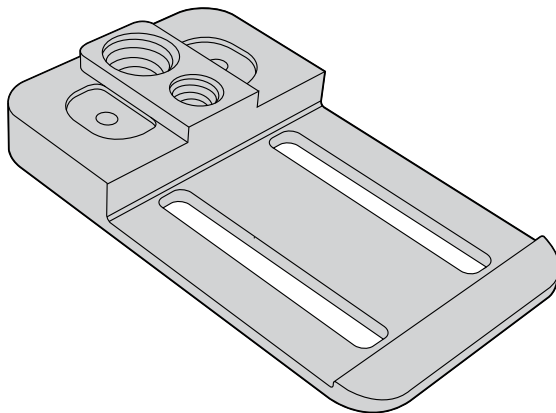
PTT

Press to talk (PTT) allows camera operators to talk to the switcher operator. The button is held down while talking. If the PTT button is pressed twice in quick succession, it will stay on to allow hands free communication. If PTT is pressed again, it will revert to normal press-to-talk behavior.

12 Using ATEM Camera Converter



Camera Number button.



ATEM Camera Converter can be clipped to your belt, mounted on a tripod arm, or rest on its rubber feet on a desk.

Setting the Camera Number

If you want your ATEM Camera Converter to receive tally signals from an ATEM switcher, you'll need to set the camera number on your ATEM Camera Converter. This ensures the switcher sends the tally signal to the correct ATEM Camera Converter. The camera number can be set to a value of 99, and up to 99 cameras can be connected to a series of looped ATEM Studio Converters.

To set the camera number with the camera number button, press and hold the button until its button light flashes 3 times. This will reset the camera number to camera 1. Each subsequent press of the button will increment the camera number by 1. For example, if you want to set your ATEM Camera Converter to camera number 5, reset the camera number to 1 and then add 4 button presses.

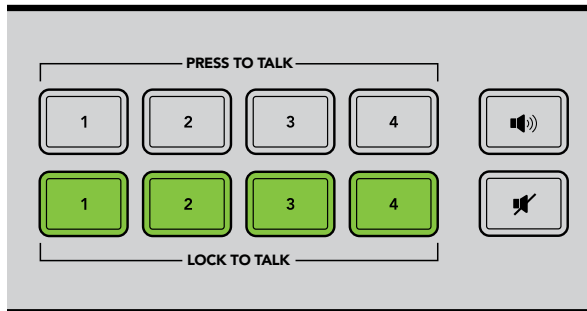
To test if camera number 5 is set correctly, have the ATEM switcher operator switch camera number 5 to the program output. If your camera number is set correctly, the tally lights will illuminate on your ATEM Camera Converter.

Similarly, if you want to test what camera number your ATEM Camera Converter is set to, ask the ATEM switcher operator to switch camera inputs to the program output until your tally lights illuminate. The switcher operator can then confirm your camera number.

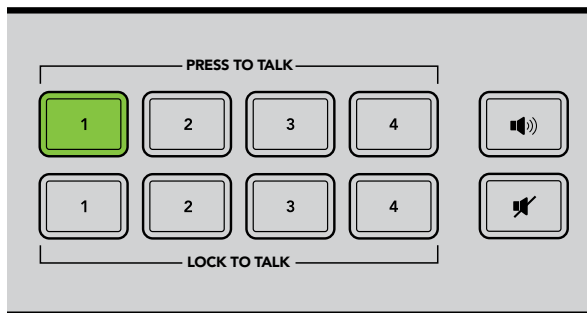
Mounting ATEM Camera Converter

When your camera needs to be mobile, connect your cables to ATEM Camera Converter and then snap the integrated belt clip on to your belt. For stationary shots, ATEM Camera Converter can be mounted on a tripod arm with either of its standard 3/8" or 1/4" thread inserts. If you want to sit ATEM Camera Converter on a desk using its rubber feet, undo the two 2.5 hex socket screws and remove the belt clip.

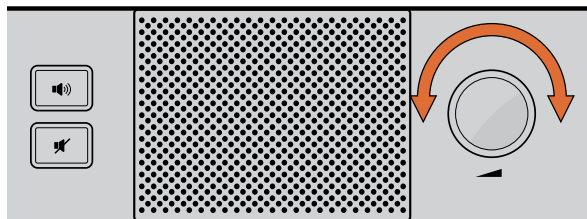
13 Using ATEM Studio Converter



ATEM Studio Converter's control panel buttons are used for talkback, enabling or disabling program audio, and muting the speaker. The above illustration shows all LTT buttons activated.





You can communicate with a single camera operator even when LTT is selected for all cameras. All LTT buttons are deactivated while PTT is pressed.




Volume is easily adjusted by turning the volume control clockwise or counterclockwise.


Using ATEM Studio Converter

ATEM Studio Converter's control panel features two rows of talkback buttons, including Press to Talk (PTT) and Lock to Talk (LTT) for each of the four camera inputs. Next to the talkback buttons are PGM  and Mute  buttons. All buttons are illuminated white and change to green when selected.

PTT 1, 2, 3 and 4 - The press to talk buttons let you communicate with each camera operator independently. The PTT button illuminates green and activates your external or headset microphone while the button is pressed.

LTT 1, 2, 3 and 4 - The lock to talk buttons lock your external or headset microphone open until you press them again. You can even lock your microphone open for all cameras if you want to communicate with all camera operators simultaneously. Cameras can be communicated with independently using PTT even if all LTT buttons are selected.

PGM  Pressing the PGM button enables program audio with talkback. When a camera operator uses talkback, ATEM Studio Converter's program audio level is decreased so talkback can be heard clearly. When PGM is deselected only talkback audio is heard.

Mute  Pressing the Mute button will quickly fade the built in speaker to silence. Pressing Mute again, or increasing the volume, will restore audio. This button only affects the speaker output and will not affect your program or talkback audio output.

Built in Speaker and Volume Control - You can hear program audio and talkback via the control panel speaker, or with headphones via the 1/4" TRS headphones input. Adjust the volume for the speaker or headphones by turning the volume knob on the control panel clockwise or counterclockwise.

14 Using Blackmagic Converter Utility



Blackmagic Converter Utility

Blackmagic Converter Utility is used to configure settings and update the internal software in your ATEM Camera and Studio Converters.

Installing Blackmagic Converter Utility on Mac OS X

After downloading the Converter Utility software and unzipping the downloaded file, open the resulting disk image to reveal its contents.

Drag the Blackmagic Converter Utility icon and drop it on to the Applications icon. If Mac OS X presents a warning message that an older version of Blackmagic Converter Utility exists, choose to replace the older version. Blackmagic Converter Utility is now installed.

To remove Blackmagic Converter Utility from your Mac, simply drag its icon from the Applications folder to the Trash and then choose to Empty Trash.

Installing Blackmagic Converter Utility on Windows

After downloading the Converter Utility software and unzipping the downloaded file, you should see a Converter Utility folder containing this PDF manual and the Converter Utility installer.

Double-click the installer and follow the onscreen prompts to complete the installation. When the installation has finished, it will prompt you to restart the computer. The restart will load a USB driver for Converter Utility so that it can communicate with any ATEM Converter. Click "restart" to complete the installation process. Once the computer has restarted, Blackmagic Converter Utility will be fully installed and ready to use.

To remove Blackmagic Converter Utility from Windows, go to the Programs and Features control panel, select Blackmagic Converter Utility and click on Uninstall.

Updating the Converters Software

After installing Blackmagic Converter Utility on your computer, connect a USB cable between the computer and your ATEM Converter. Launch Blackmagic Converter Utility and follow any onscreen prompt to update the internal software in your ATEM Converter. If no prompt appears, the internal software is up to date and there is nothing further you need to do.

15 Using Blackmagic Converter Utility



The Camera Number setting in Blackmagic Converter Utility

Setting Tally Border and Camera Number Using Blackmagic Converter Utility

In addition to tally lights, you can also display a tally border on an SDI or HDMI monitor connected to your ATEM Camera Converter. This option is set using Blackmagic Converter Utility, where you can also set the camera number.

Step 1. Connect an ATEM Camera Converter to your computer via USB 2.0.

Step 2. Launch Blackmagic Converter Utility and click the Settings tab.

Step 3. Set the camera number and also choose whether to show a tally border on the monitor attached to the ATEM Camera Converter. Quit from Blackmagic Converter Utility.

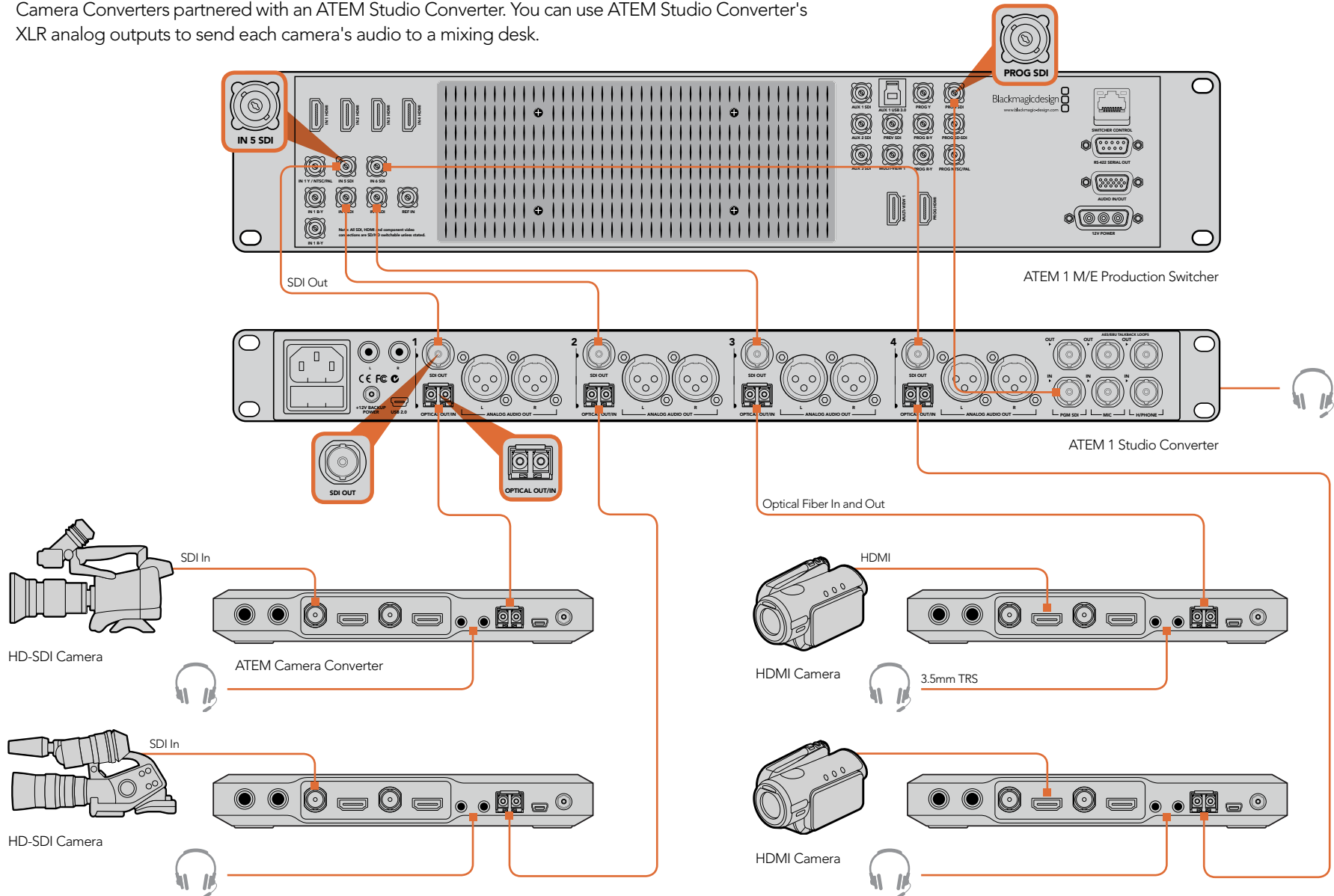
If you chose not to display a tally border, the tally lights on the ATEM Camera Converter will still illuminate when your camera is live on the program output of the ATEM switcher.

To remove Blackmagic Converter Utility from Windows, go to the Programs and Features control panel, select Blackmagic Converter Utility and click on Uninstall.

16 Connecting to an ATEM Switcher

Connecting Up to 4 Cameras to a Switcher

This example shows four cameras connected to an ATEM 1 M/E Production Switcher via four ATEM Camera Converters partnered with an ATEM Studio Converter. You can use ATEM Studio Converter's XLR analog outputs to send each camera's audio to a mixing desk.

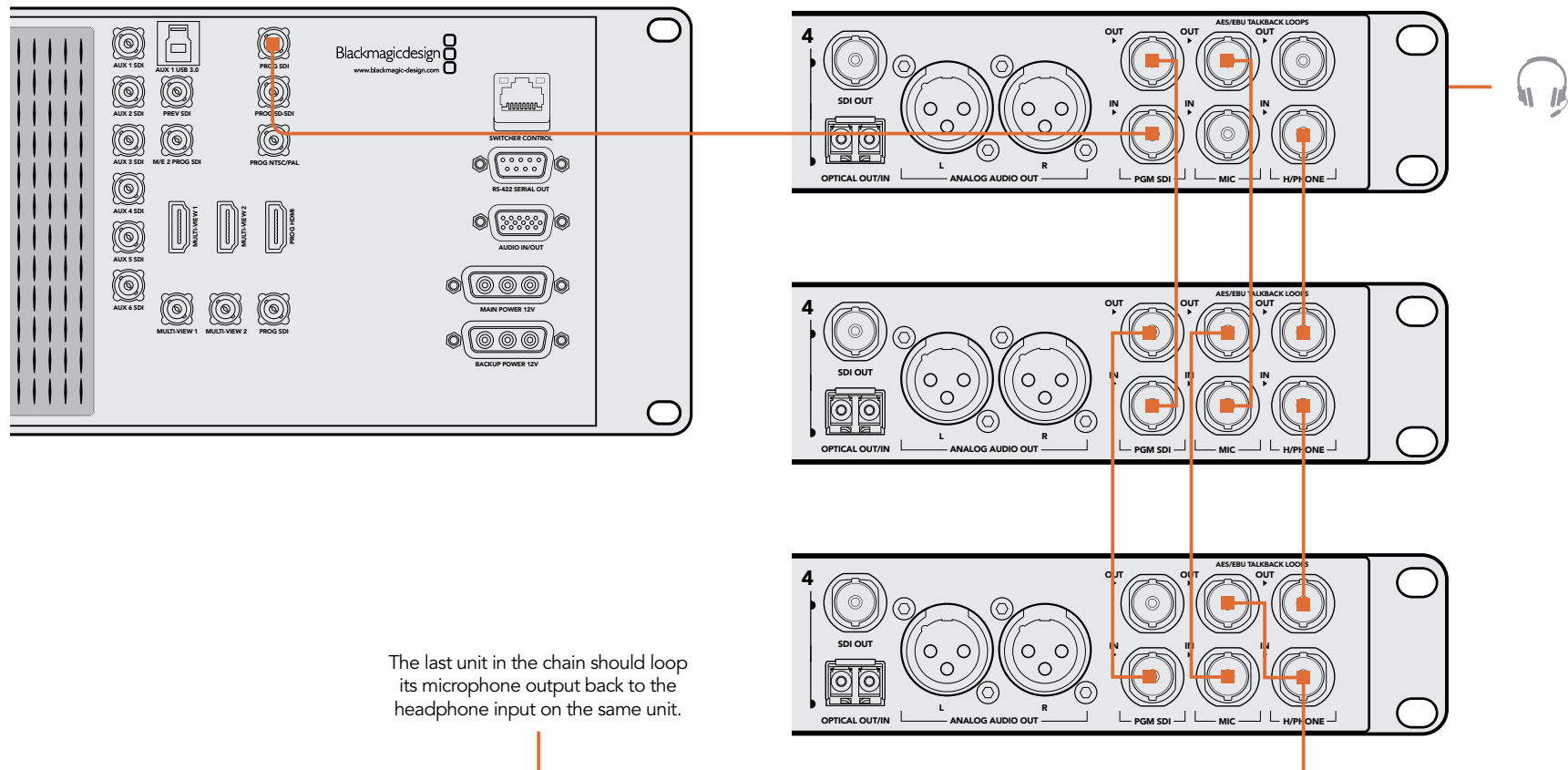


17 Connecting to an ATEM Switcher

Connecting More than 4 Cameras to a Switcher

If you have over four cameras that need to be connected to your switcher, you can expand the number of camera connections by linking ATEM Studio Converters together. This example shows three ATEM Studio Converters connected together so up to 12 cameras can be used.

The first unit receives the program output from the switcher. The talkback headset or external microphone should be connected to the front panel of the first unit. The first unit's program and microphone outputs are then looped to the corresponding inputs of the next unit. The last unit in the chain should loop its microphone output back to its own headphone input. The headphone output should be connected to the headphone input of each previous unit in turn, until the first unit is connected. This completes the loop so that all ATEM Studio Converters can share talkback.



The last unit in the chain should loop its microphone output back to the headphone input on the same unit.

The screenshot shows the Blackmagic Design Support Center page for the ATEM 1 M/E Broadcast Panel for Mac OS X. The page features a navigation menu at the top with links for Products, Resellers, Support, Company, Events, Press, Community, and Post. The main content area includes a large orange and white lifebuoy graphic. Below this, there are sections for Downloads and Online Resources. The Downloads section lists the ATEM Operation Manual (28 August 2011, 9.69 MB) and Blackmagic ATEM Switchers 2.1 for Macintosh (24 August 2011, 153.41 MB). The Online Resources section includes Support Notes (N/A). A 'Still having trouble?' section provides contact information for technical support in the United States, including a telephone number (+1 408 954 0500) and a 'Send request' button. The footer contains copyright information for Blackmagic Design Pty. Ltd. 2011 and a link to change the user's location.

Getting Help

The fastest way to obtain help is to go to the Blackmagic Design online support pages and check the latest support material available for your ATEM converter.

Blackmagic Design Online Support Pages

The latest manual, software and support notes can be found at the Blackmagic Support Center at www.blackmagicdesign.com/support.

Contacting Blackmagic Design Support

If you can't find the help you need in our support material, please use the "Send request" button, on the support page for your ATEM converter model, to email a support request. You can also call your nearest Blackmagic Design support office at www.blackmagicdesign.com/company.

Checking the Version Currently Installed

To check which version of Converter Utility software is installed on your computer, open the About Converter Utility window.

- On Mac OS X, open Blackmagic Converter Utility from the Applications folder. Select About Blackmagic Converter Utility from the application menu to reveal the version number.
- On Windows 7, open Blackmagic Converter Utility from your Start menu. Click on the Help menu and select About Blackmagic Converter Utility to reveal the version number.
- On Windows 8, open Blackmagic Converter Utility from the Blackmagic Converter Utility tile on your Start page. Click on the Help menu and select About Blackmagic Converter Utility to reveal the version number.

How To Get the Latest Updates

After checking the version of Converter Utility software installed on your computer, please visit the Blackmagic Support Center at www.blackmagicdesign.com/support to check for the latest updates. While it is usually a good idea to run the latest updates, it is a wise practice to avoid updating any software if you are in the middle of an important project.



Caution label
Warnetikett
Avertissement

Caution: Risk of Electric Shock

On the ATEM Studio Converter enclosure you will see a yellow warning label marked 'Caution: Risk of Electric Shock'. This is intended to warn users that there may be the presence of uninsulated "dangerous" voltage within the ATEM Studio Converter enclosure which may be of sufficient magnitude to constitute a risk of electric shock to the user. Blackmagic Design advises you not to open the ATEM Studio Converter unit, but rather contact your nearest Blackmagic Design service center should assistance be required.

Achtung: Stromschlaggefahr

Auf dem ATEM Studio Converter-Gehäuse befindet sich ein gelbes Warnetikett mit der Aufschrift 'Caution: Risk of Electric Shock'. Dieses warnt den Benutzer vor einer möglichen, nicht isolierten, "gefährlichen" Spannung innerhalb des ATEM Studio Converter-Gehäuses, die einen Elektroschock verursachen kann. Blackmagic Design empfiehlt das Gehäuse des ATEM Studio Converter nicht selbst zu öffnen, sondern bei Hilfebedarf das nächstgelegene Blackmagic Design Servicecenter zu kontaktieren.

Attention: Risque de choc électrique

Sur le boîtier du ATEM Studio Converter, vous verrez une étiquette d'avertissement de couleur jaune sur laquelle est inscrit « Attention : Risque de choc électrique ». Cette mise en garde est destinée à avertir les utilisateurs de la présence possible d'une tension « dangereuse » non isolée à l'intérieur du boîtier du ATEM Studio Converter, laquelle tension pouvant avoir une amplitude suffisante pour constituer un risque de choc électrique à l'utilisateur. Blackmagic Design vous déconseille donc d'ouvrir l'unité ATEM Studio Converter, et vous recommande de contacter votre centre de service Blackmagic Design le plus proche en cas de nécessité.

12 Month Limited Warranty

Blackmagic Design warrants that this product will be free from defects in materials and workmanship for a period of 12 months from the date of purchase. If a product proves to be defective during this warranty period, Blackmagic Design, at its option, either will repair the defective product without charge for parts and labor, or will provide a replacement in exchange for the defective product.

In order to obtain service under this warranty, you the Customer, must notify Blackmagic Design of the defect before the expiration of the warranty period and make suitable arrangements for the performance of service. The Customer shall be responsible for packaging and shipping the defective product to a designated service center nominated by Blackmagic Design, with shipping charges pre paid. Customer shall be responsible for paying all shipping charges, insurance, duties, taxes, and any other charges for products returned to us for any reason.

This warranty shall not apply to any defect, failure or damage caused by improper use or improper or inadequate maintenance and care. Blackmagic Design shall not be obligated to furnish service under this warranty: a) to repair damage resulting from attempts by personnel other than Blackmagic Design representatives to install, repair or service the product, b) to repair damage resulting from improper use or connection to incompatible equipment, c) to repair any damage or malfunction caused by the use of non Blackmagic Design parts or supplies, or d) to service a product that has been modified or integrated with other products when the effect of such a modification or integration increases the time or difficulty of servicing the product. THIS WARRANTY IS GIVEN BY BLACKMAGIC DESIGN IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED. BLACKMAGIC DESIGN AND ITS VENDORS DISCLAIM ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. BLACKMAGIC DESIGN'S RESPONSIBILITY TO REPAIR OR REPLACE DEFECTIVE PRODUCTS IS THE WHOLE AND EXCLUSIVE REMEDY PROVIDED TO THE CUSTOMER FOR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES IRRESPECTIVE OF WHETHER BLACKMAGIC DESIGN OR THE VENDOR HAS ADVANCE NOTICE OF THE POSSIBILITY OF SUCH DAMAGES. BLACKMAGIC DESIGN IS NOT LIABLE FOR ANY ILLEGAL USE OF EQUIPMENT BY CUSTOMER. BLACKMAGIC IS NOT LIABLE FOR ANY DAMAGES RESULTING FROM USE OF THIS PRODUCT. USER OPERATES THIS PRODUCT AT OWN RISK.

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