Front Panel Control Buttons

Arrow and Button Selection

Prev and Next navigate through the various controls, such as Aspect and Position. When a control is selected its LED blinks on and off. Arrows change values for the control you selected.

Size

The Size and Position controls let you select exactly what part of the computer image you want to output to video. When the Size LED is blinking, adjust the position of the lower right corner of the selection. Use the four arrows to control size.

Short cut: Press and hold up and down (or right and left) arrows at the same time to reset to maximum possible size.

Position

When the Position LED is blinking, adjust the position of the upper left corner of the selection. Use the four arrows to control position. Press and hold for faster movement.

Short cut: Press and hold left and right arrows at the same time to reset the H position to default values. Press and hold up and down to reset V position.
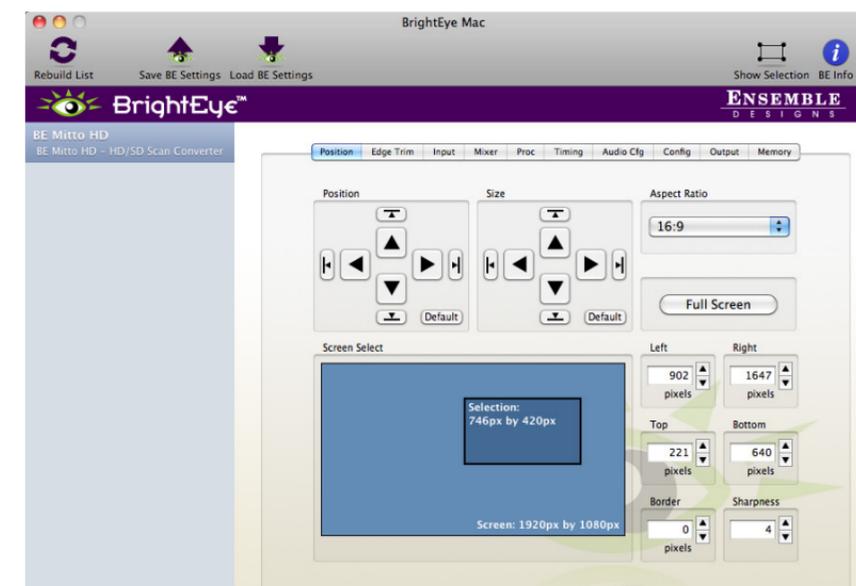
Full Screen

With Position or Size LED blinking, press and hold the up, left and right arrows at the same time to go to full screen.
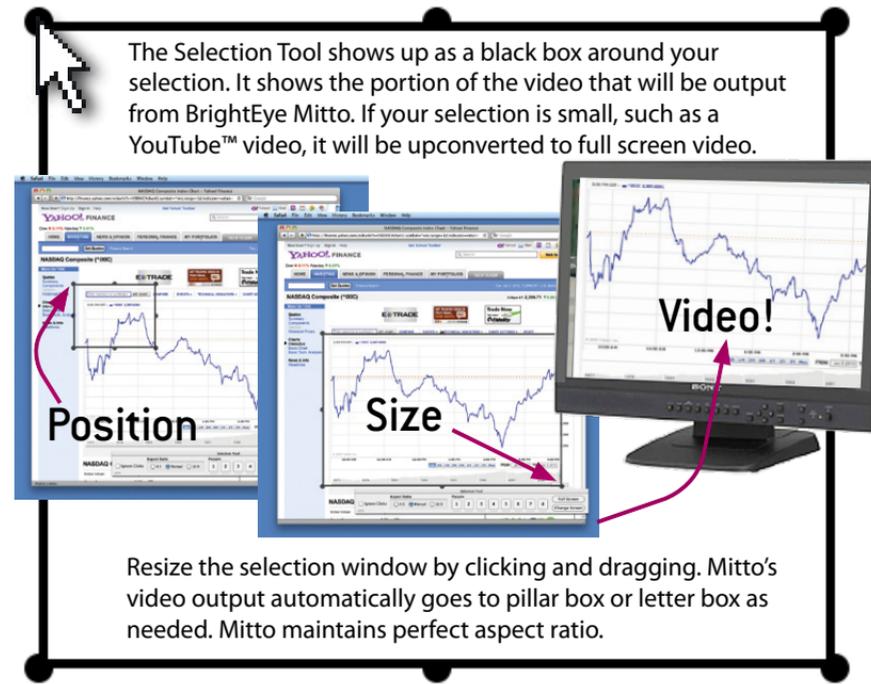
Software Control

BrightEye PC and BrightEye Mac software provide complete and intuitive control of the BrightEye Mitto including handles for timing, video format, and video level adjustments.

Click the [ ] Selection Tool button in BrightEye Mac or PC to bring up the Selection Tool.

Video Selection Tool

Click and drag to move and resize selection

The Selection Tool shows up as a black box around your selection. It shows the portion of the video that will be output from BrightEye Mitto. If your selection is small, such as a YouTube™ video, it will be upconverted to full screen video.

Resize the selection window by clicking and dragging. Mitto's video output automatically goes to pillar box or letter box as needed. Mitto maintains perfect aspect ratio.

QuickStart Guide

BrightEye *Mitto* ™
3G / HD / SD Scan Converter
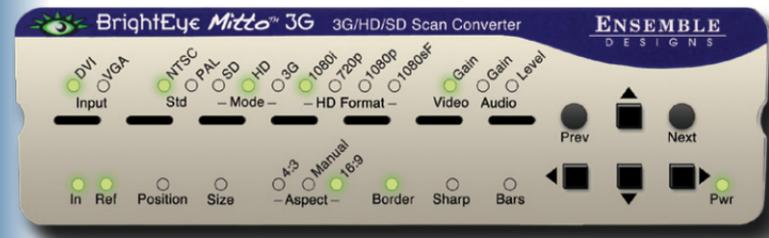
Superior Quality, Easy-To-Use

Controls • Adjustments • Timing • Video Levels • Audio Levels • Aspect Ratio • Position • Size • Controls • Adjustments • Timing • Video Levels • Audio Levels • Aspect Ratio • Position • Size • Controls • Adjustments • Timing
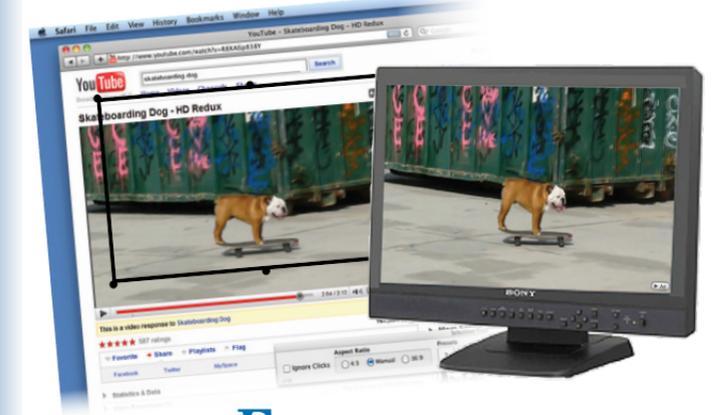
You Opened the Box and...

Inside You Found:
• Your Mitto
• One USB cable
• Two VGA to DVI adaptors
• One modular power supply (100-230 VAC)
• The BrightEye software and user manual CD

You Will Need the Following:
• Desktop computer with monitor (optional) or a laptop computer (PC or MAC)
• Additional cables as required by your studio configuration

1. Install the Software

The BrightEye Mac/PC software is included on CD, v2.0 or later is required.

Insert the CD into your computer and follow the prompts. If you are updating, please uninstall the old version first.

The latest software version and the manual are free at http://brighteyemitto.com

2. Connect the Mitto

• Start with your computer and monitor turned off.
• Connect a USB cable from your PC or Mac computer to the Mitto.
• Connect the Mitto's DVI/VGA Loop Out connector to the computer monitor's input.
• Connect the monitor output of the computer to the Mitto DVI/VGA Input connector.
• Connect the Mitto's SDI Out or Composite Out BNC to a broadcast television production switcher, router, video monitor or other video destination.
• If using audio, connect the computer's audio output to the Mitto's Audio In.
• If desired, connect your reference signal to the Ref In. Mitto's output is genlocked and fully timeable to this reference.
• Connect power to the Mitto.
• Turn on the computer and monitors.

SDI Video
HD, SD or 3 Gb/s

DVI

USB

Audio

DVI
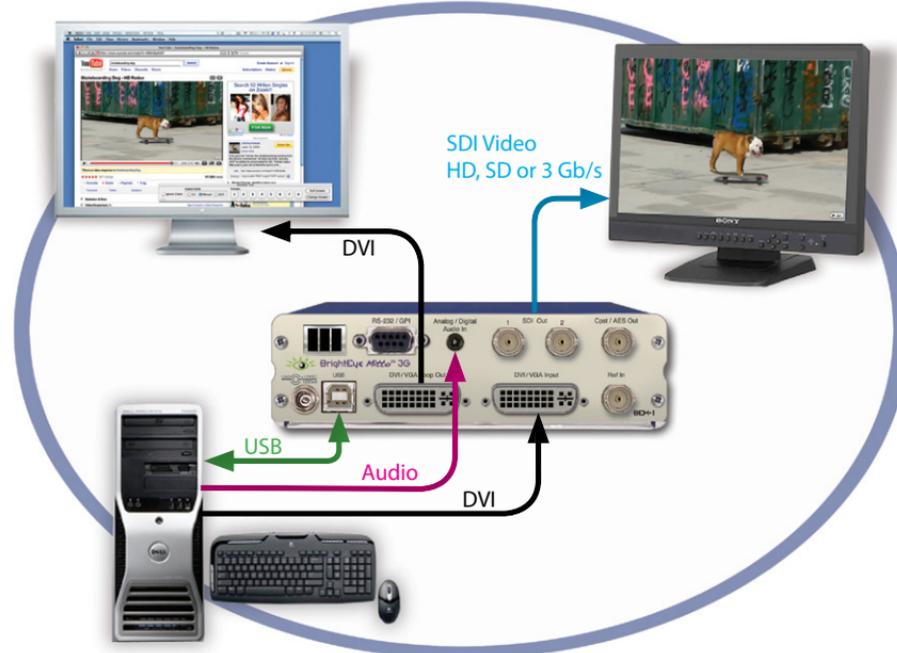
Output Stunning Video
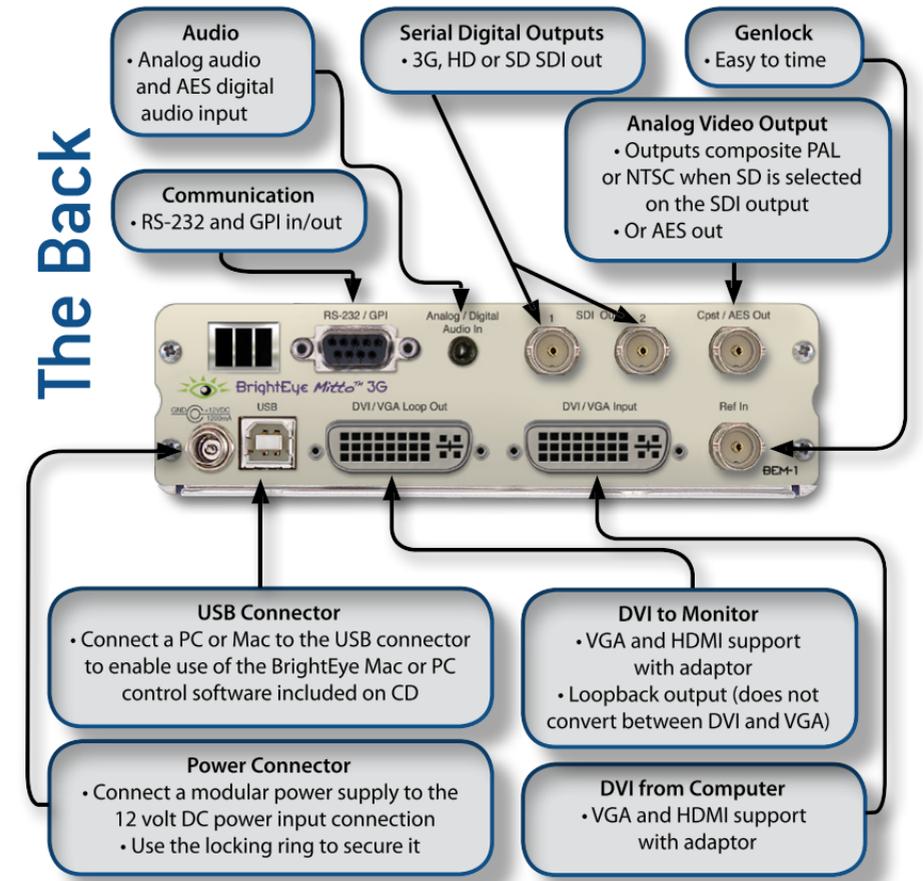All of the detail, none of the flicker
• YouTube™, Skype™, and any video playing back from a computer or iPhone
• Weather radar, maps
• Viewer emails, software demos, financial data

3. Configure the Mitto

Select a Resolution
Set the resolution of your computer monitor. For the best video output from BrightEye Mitto, set your computer monitor to the highest resolution that's compatible with Mitto. For best results choose 1920 x 1080 or 1024 x 768.

Select Video Format
From the BrightEye Mac or PC software or the Mitto's front panel, configure the desired output format from the Output menu. Select the Standard (NTSC or PAL), Mode (SD, HD, 3G), and HD format if using HD.

Then select the appropriate aspect ratio: 16:9, 4:3 or manual mode.

Alternate Ways to Mitto!
There are other ways to use BrightEye Mitto in your TV station or video facility:
• It can be used with a laptop. Configure your laptop for use with an external monitor. Connect Mitto in place of the external monitor.
• It can be used without a computer monitor.
• It can be used with or without the Mitto software.
• It can be controlled from the Mitto panel control buttons only.
• It can be can be used with iPhone™ and iPad™.

The Back

Audio
• Analog audio and AES digital audio input

Serial Digital Outputs
• 3G, HD or SD SDI out

Genlock
• Easy to time

Analog Video Output
• Outputs composite PAL or NTSC when SD is selected on the SDI output
• Or AES out

Communication
• RS-232 and GPI in/out

USB Connector
• Connect a PC or Mac to the USB connector to enable use of the BrightEye Mac or PC control software included on CD

DVI to Monitor
• VGA and HDMI support with adaptor
• Loopback output (does not convert between DVI and VGA)

Power Connector
• Connect a modular power supply to the 12 volt DC power input connection
• Use the locking ring to secure it

DVI from Computer
• VGA and HDMI support with adaptor

The BrightEye Mitto Family offers six models to choose from. The diagram above shows Mitto model BEM-1. Rear connections vary with other models.