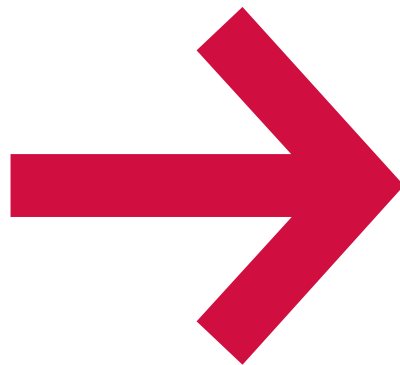




MBOX EXTREME[®] MEDIA SERVER





MBOX EXTREME[®] MEDIA SERVER

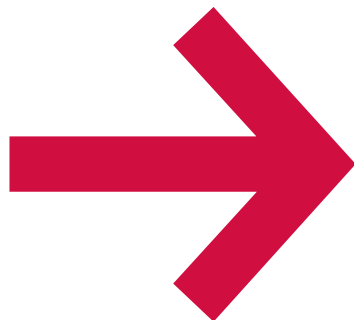
Mbox EXTreme[®] v3 Media Server takes stunning visual imagery and effects to the next level while offering all the features and functions that made the original Mbox EXTreme[®] an industry standard. Its increased speed, streamlined user control, brand new hardware, and enhanced input and output options are just a few reasons why this powerful tool is the cutting edge of creative content control today.

POWERFUL HARDWARE

Mbox EXtreme v3's compact hardware configuration has been engineered to address the ever-expanding demands of digital imagery and the faster processing required to stay ahead of the curve. The blazingly fast power of an Apple®

8-core Mac Pro computer paired with a custom Dual I/O module that provides two discrete outputs for each server comes standard in a rugged road case complete with a UPS, Auxiliary Input panel, keyboard, and trackball. To prevent the

display of unintended signal, the I/O module's Program Monitor function stops any video output when the Mbox EXtreme application is not running in full screen mode.





FLEXIBLE CONTROL

Mbox EXtreme v3 works seamlessly with up to twelve layers of content, which can be displayed simultaneously to give users powerful and flexible control. Layers can be any combination of 3D objects and 2D textures, and

users can transition both 2D and 3D content on the same layer – simplifying cueing and playback and making 12 layers on the Mbox Extreme server the effective equivalent of 24 layers on another server. With 1080p playback, Mbox EXtreme

v3 easily meets HD content resolution needs, and it can play back embedded audio tracks from selected movies or any standalone stereo AIFF files complete with volume control.

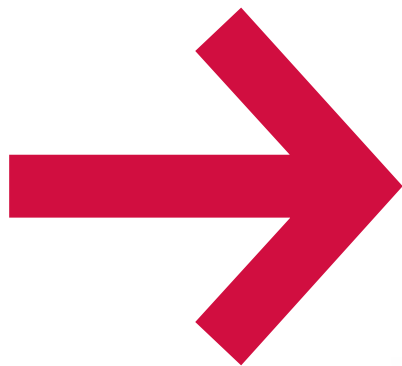
CHOICE OF INPUTS

Creative digital imagery comes in many different formats so Mbox EXTreme v3's software can handle up to two local video inputs, including one input via a

DeckLink HD Extreme capture card with inputs (HD/SD-SDI, component, or composite) up to 1080p and a second input using FireWire/USB DV. All video inputs

can be de-interlaced on the fly. Mbox EXTreme v3 also includes SMPTE and MIDI timecode inputs for syncing movie playback.





CREATIVE OUTPUT

Mbox EXtreme v3 can output creative content in a variety of ways. In addition to the DVI, RGBHV, and SD/HD-SDI stage outputs, both of the Dual I/O module's outputs have a DVI preview output. No additional hardware is required for the SDI output. As well as the single

output mode, Mbox EXtreme's three dual output modes – Wide Panoramic, Dual Panoramic, and Dual Independent – enhance creative flexibility. Having two panoramic modes make it easy to move content from one screen to another and to arrange it in either landscape or portrait modes.

Both panoramic modes allow for the addition of a center blend, and the Dual Panoramic mode adds separate shuttering and keystone corrections for each output. Dual Independent mode provides two fully independent outputs, with no overlap – up to six layers per output.



WWW.PRG.COM

The Mbox EXtreme® v3 Media Server is just one of PRG's proprietary products. Please contact us to learn more about our entire line of products, our approach to R&D and **see what we can do** specifically for you.

Mbox EXTreme® Media Server

The Mbox EXTreme® Media Server from PRG takes digital lighting to the next level with its advanced integration of video and automated lighting. Powerful real time rendering, built-in effects, and a true 3D environment provide the ultimate tools for combining pre-recorded video and still images to create stunning visual imagery that can be displayed by any projector, LED wall, plasma screen or low-res LED lighting fixture.

VERSATILE CONTROL

The Mbox EXTreme server can be programmed and operated directly from Art-Net or DMX512-based moving light consoles, allowing ease of coordination between video/image effects and lighting cues. Intricate Mbox EXTreme sequences can be generated instantly on site without the need for offline video processing, rendering or editing. A stock library gets the system up and running quickly with a wide variety of video clips, still images and 3D objects. All of these items can be recalled instantly. In addition, designers can easily add their own video, images or objects and see the results immediately.

FLEXIBLE APPLICATION

Mbox EXTreme can be used in a variety of applications from displaying custom logos at tradeshows to incorporating subtle backgrounds for broadcast television or high intensity cueing for live performances. Mbox EXTreme can also be configured to output video information as DMX-over-Ethernet to control low-resolution LED fixtures, allowing designers to create broad strokes of color and realistic video effects.

Superior Imaging

Mbox EXTreme guarantees superior image quality with its pixel-for-pixel resolution. Designers can manipulate and play back content without affecting the source material, making frame loss or distortion in video playback virtually nonexistent. To ensure smooth output and professional results, each Mbox EXTreme is packaged with a hardware dimmer module that suppresses the stage output during system startup and shutdown.



Features

- RACK WITH UPS, I/O MODULE, AND AUXILIARY PANEL
- DUAL VIDEO OUTPUT PER SERVER WITH THREE MODES
- DIGITAL DUAL I/O MODULE WITH BUILT-IN DMX-TO-ART-NET CONVERSION AND ETHERNET SWITCH. ANALOG (VGA), DVI, AND SDI (SD/HD) STAGE OUTPUTS, DVI PREVIEW OUTPUT
- ACCEPTS LIVE VIDEO INPUT SDI (HD/SD), COMPOSITE AND FIREWIRE® (DV)
- 1080P HD VIDEO PLAYBACK
- MOVABLE CAMERA VIEWPOINT
- AMBIENT AND DIRECTIONAL LIGHT SOURCES
- INTERACTIVE, SCALABLE LAYERS THAT CAN BE CONFIGURED AS BACKGROUNDS OR 3D GEOMETRIC OBJECTS
- DIGITAL GOBOS THAT CAN BE USED AS BACKGROUNDS, MASKS, OR FOR ADVANCED LAYER BLENDING EFFECTS
- IMAGE TILING AND EDGE-BLENDING FOR MULTIPLE-SERVER CONFIGURATIONS
- PIXEL MAPPING
- MAPPING OF TEXTURES (VIDEOS OR STILL IMAGES) TO 3D OBJECTS AND DIGITAL GOBOS
- REAL-TIME CROSSFADES AND TRANSITIONS BETWEEN VIDEOS, IMAGES, AND OBJECTS ON THE SAME LAYER
- EFFECTS INCLUDING BLUR, PIXELATE, LED WALL, EXPOSURE AND ALPHA ADJUSTMENT CAN BE APPLIED INDIVIDUALLY OR IN COMBINATION
- ADVANCED VIDEO PLAYBACK WITH DIRECTION, SPEED, AND IN-POINT/OUT-POINT CONTROL
- USER-CONFIGURABLE ASPECT RATIO AND OUTPUT RESOLUTION CONTROL
- PLAYBACK OF MOVIE CONTENT WITH ALPHA CHANNEL
- MULTICHANNEL AUDIO PLAYBACK
- INTERACTIVE SCENIC TRACKING AND PIXEL REMAPPING
- CURRENT DRAW: MAXIMUM 8 Amps @ 100-120V, MAXIMUM 4 Amps @ 220-240V
- DIMENSIONS (L X W X H): 30" X 24" X 26", WEIGHT: 236 LBS

Mbox EXtreme® Media Server Specifications

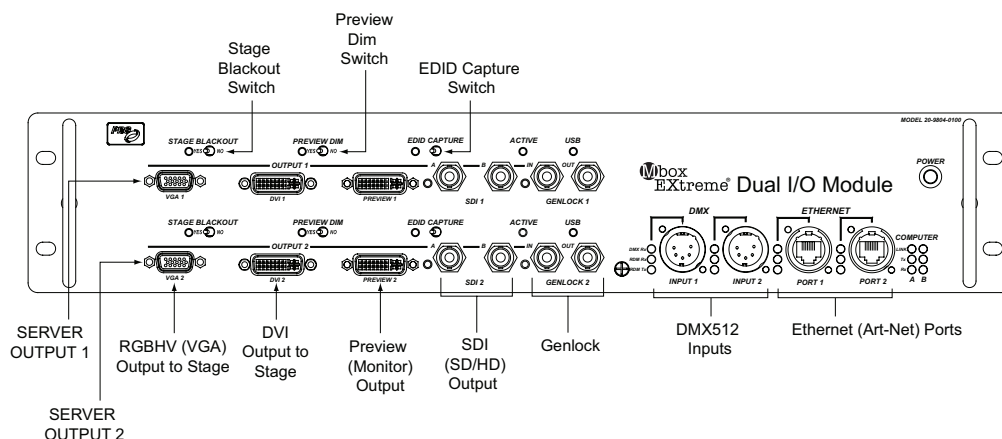
HOW IT WORKS

The process is simple: Original source material is loaded onto the server in advance of programming. (Designers also have access to a library of stock videos and images that come standard on the server.) The designer or programmer manipulates the media using a moving light console or or the Mbox Director GUI application, leaving the actual source material unaltered. When the desired playback looks are achieved, the designer either records them into the cue list on the console or applies them on the fly during the show. It's that easy.

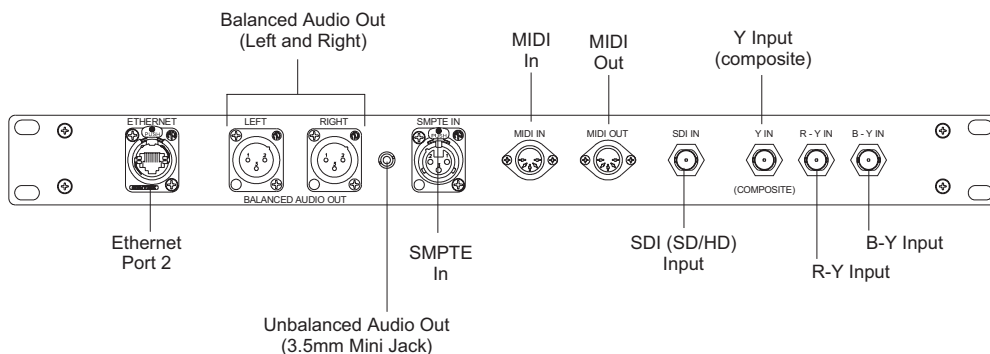
SOFTWARE/HARDWARE

The Mbox EXtreme software runs on a rack-mounted Apple® Macintosh® computer controlled by DMX512 or Art-Net. All video, still images and 3D objects are stored on directly on the Mbox EXtreme hard drive, allowing instant access to any file. The Mbox EXtreme is a single server rack unit equipped with two video outputs that can be used to drive a projector, LED wall or plasma screen. The included dual I/O module provides analog (RGBHV), DVI, SDI and HD-SDI outputs for video, along with DVI preview capability.

Dual I/O Module

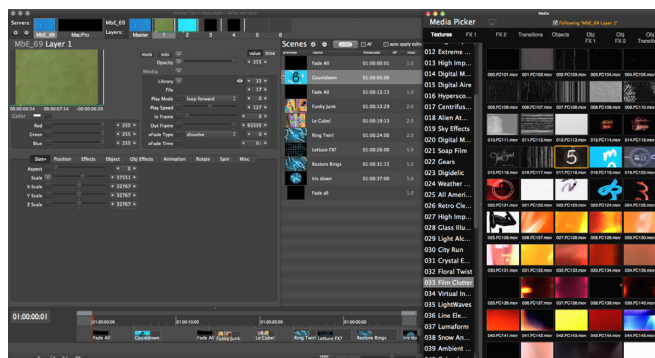


Aux Panel



Mbox Director™ Application

Mbox Director™, an application specifically written to control Mbox EXtreme® Media Servers from a personal computer, can configure and control all aspects of the Mbox media content and playback, thereby eliminating the need for a lighting console. Director allows for straightforward control of Mbox through its user-friendly GUI while still giving access to the full range of Mbox control parameters.



Controllable Elements

MASTER:

- Intensity
- Orbit X and Y
- Dolly, Pitch and Yaw
- Camera Roll (Spin)
- Theatrical Framing Shutters (four modes)
- Edge Blending
- Tiling (with overlap control)
- Master Effect (2)
- Master Color
- Fog and Decay
- Pixel Mapping output level
- Audio output level

LAYER: TEXTURE/OBJECT

- Opacity
- Texture
- Object
- Texture Effect (2 per layer)
- Object Effect (2 per layer)
- Color
- Playmode and Playspeed
- Frame Blending
- Transitions (Type and Timing)
- X,Y, Z Position, Rotations, and Scale
- Sync (Timecode and Layer-to-Layer)
- Layer Blending Modes (8 total)
- Adjustable Motion Damping

TOKYO
SHANGHAI
MELBOURNE
SYDNEY
ADELAIDE
LONDON
BIRMINGHAM
MAIDSTONE
HAMBURG
COLOGNE
FRANKFURT
MUNICH
BERLIN
DÜSSELDORF
BRUSSELS
PARIS
UTRECHT
MADRID
ZURICH
CAPE TOWN
BUENOS AIRES
NEW YORK
NEW JERSEY
WASHINGTON DC
TORONTO
DETROIT
CHICAGO
DEKALB
ATLANTA
ORLANDO
NEW ORLEANS
DALLAS
DENVER
LAS VEGAS
LOS ANGELES

WWW.PRG.COM

MBX EXTREME® IS A REGISTERED TRADEMARK OF PRODUCTION RESOURCE GROUP, LLC

©2012 PRODUCTION RESOURCE GROUP, LLC. ALL RIGHTS RESERVED. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

VERSION: FEBRUARY 2012