

# SOFTWARE RELEASE NOTES



**Product:** Mbox Media Server  
**Manufacturer:** PRG  
**Subject:** Software Version 5.4  
**Bulletin No:** MBX-073  
**Date:** August 21, 2025



## INTRODUCTION

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### Mbox Software Version 5.4

We are pleased to announce that software version 5.4 is now available for the Mbox Media Server applications including Mbox, Mbox Daemon, and Mbox Remote. Software version 5.4 introduces many new features and addresses several issues in the Mbox 5.x applications. This release also includes revised versions of the TC Reader, Launcher, and Art-Net Tester utility applications.

### Compatibility with Apple Silicon Processors - M1/M2/M3/M4 - and macOS versions

All Mbox 5.x applications are universal applications and run natively on both Apple Silicon and Intel computers. All Mbox 5.x applications require at least macOS 10.14.6 and are compatible with all versions of macOS up to and including macOS 15 Sequoia. However, the use of macOS 16 Sequoia is still discouraged at this time due to bugs in the OS. If you must use Sequoia and have issues using Mbox applications, please contact [MboxSupport@prg.com](mailto:MboxSupport@prg.com) for assistance.

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**IMPORTANT!!** Future versions of the Mbox applications will eliminate support for older versions of macOS. Mbox 5.4.x will be the last version with support for macOS Mojave (10.14) and possibly Catalina (10.15).

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### Mbox, PRG, and your Personal Data

Please refer to the release notes for Mbox software version 5.0.2 (MBX-065) for information regarding PRG's use of your personal data. Please contact [MboxSupport@prg.com](mailto:MboxSupport@prg.com) if you have any questions.

### Reminders - Blackmagic Desktop Video and Mbox Installer Changes

- + Mbox 5.4 uses version 14.3 of the Blackmagic Design SDK.
  - **WARNING!** This means that the installed version of Blackmagic Desktop Video used with Mbox 5.4 must be at least version 14.3 for any/all Blackmagic inputs and outputs to function.
  - Mbox checks the installed version of Blackmagic Desktop Video at application launch, and displays an alert if the installed version is older than the required version.
- + To install and use the Mbox dongle drivers on Apple Silicon computers, Rosetta must be installed. The Rosetta install is handled automatically, but fails if the computer has no internet connection. When installing Mbox and installing dongle drivers, if a Rosetta install is required but the computer has no internet connection, the installer will fail, showing an error message. To avoid failure, if the dongle drivers are to be installed, ensure that the computer has a valid internet connection before installing Mbox.
- + The Mbox installer archives prior versions of the Mbox, Mbox Remote, and Mbox Daemon applications - rather than keeping or deleting them. The applications are compressed into a .bz2 file which is put into the /Applications/Mbox Software folder.
- + The Mbox installer forces a reboot after the install process has completed.

### New and Updated Features

#### Mbox:

- + Layers and Output Masters have two new color control modes - HSV and Yxy - in addition to the default RGB + Brightness and Contrast mode. The selected color control mode applies to all layers and output masters.



- + Outputs and Mixes have a new “Hide” property. When enabled, the output or mix is not drawn in either the Outputs or Mixes tabs’ layout view nor when the Mix HUD [F7] is enabled.
- + Outputs and Mixes have a new “Custom Color” property. When enabled, the output or mix uses that custom color when drawn in either the Outputs or Mixes tabs’ layout view and for outlines and fill when the Mix HUD [F7] is enabled.
- + The Mix HUD [F7] adds two modes: one that draws an “X” within the mix rectangle outlines and the second that draws a filled rectangle rather than outlines. If an output or mix has a custom color enabled, the rectangle outlines, X, and fill all use the custom color. Outputs/mixes with their Hide property enabled are not drawn, no matter their color.
- + The Mix HUD [F7] adds text showing the origin and size of each mix after the mix name.
- + The timecode HUD now shows the timecode level for LTC using dB rather than as a percentage.
- + The “Image Remapping Control Protocol” preference has been renamed “Remap/ModelInfo Protocol” and now selects the control protocol for both Image Remapping and ModelInfo-based controls for topos and 3D objects.
- + Pixel mapping adds new pixel types: CIE Yxy\_8, CIE Yxy\_16, CIE Y\_8, and CIE Y\_16.
- + Improvements to the pixel mapping color conversions from screen RGB to CIE Yxy color model for accurate/predictable output.
- + Pixel mapping adds per-fixture adjustment of CIE xy range for DMX conversions, and per-fixture adjustment of CIE xy whitepoint conversion.
- + Pixel mapping CIE types allow group control, merging (where possible), and parking functionality.
- + If the computer is running at least macOS 11.2, Mbox now uses NDI SDK version 6.1.1, which increases reliability and enables the reception of NDI streams tagged as “HDR” by the sender. Computers with older versions of macOS continue to use NDI SDK 5.5.3.
- + NDI outputs automatically select BT.709 or BT.2020 conversion based on the stream dimensions (as per the NDI spec).
- + Interlaced NDI input automatically receives simple deinterlacing to improve image quality with fast motion.
- + Mbox now transmits the IP address of its control source in status packets sent to Remote, allowing Remote to display that address as an indication that the monitored instance of Mbox is/is not receiving control data.
- + New Object Dissolve transition (#250) with “dipless” crossfade.
- + New effect - Reverb (#153): allow reverb/decay/trails to be shown, with controls for amount, frame skipping, blend mode, scale, and position.
- + New effect - Timecode Burnin (#232): displays current timecode input value (HH:MM:SS:FF) on the layer/output and allows the opacity, position, and size of the display to be adjusted.
- + Enhancement to effect - Matte From Layer XY (#094): added modes 100 - 109 which use the same blend modes as modes 0-9 but increase the scale and position ranges.
- + The Global Master Control Channel has a new value (221) that can be used to show grids/mesh on topo objects.

## Remote:

- + The “Mbox Remote” menu item adds an option to quit Mbox Remote, Mbox, and Mbox Daemon at one time rather than individually - “Quit Open Mbox Apps (Remote, Mbox, Daemon)”.



- + Remote displays the IP address of each Mbox's control source as an indication that the Mbox is/is not receiving control data.
- + A "No Depth Test" property has been added for topos and 3D objects with added ModelInfo properties.

#### **Daemon:**

- + A new QuickLook Extension has been created (embedded in the Daemon application) which allows Daemon to make thumbnails for proprietary file types on macOS Sequoia and future versions of macOS.

#### **TC Reader:**

- + Timecode input is now picked up and handled much faster, typically within 10 frames.

### **Corrected Issues**

#### **Mbox:**

- + Fix crash related to layer Hours, Minutes, Seconds, and Frame parameters when used to set layer's in frame and out frame.
- + Fixes for potential crashes with NDI input.
- + Fix for potential stall/crash with effects.
- + Fix issue that caused all AVFoundation (built-in and USB) camera inputs to display no imagery.
- + Initiating an Image Remapping SVG import shows an alert if no existing configuration is selected for import into.
- + Fix for apparent stall when Mbox is launched and the incompatible Blackmagic driver warning is displayed.
- + UI compatibility updates for newer versions of macOS.
- + When an output/mix is moved and the Mix HUD [F7] is being displayed, the mix's label moves as well. If the mix's origin moves off the Global Surface, the label remains visible.
- + The Global Surface mix is now shown with a blue outline when the Mix HUD [F7] is enabled, rather than the prior white outline.
- + Allow the Mix HUD [F7] to be visible onscreen even when no control data is being received.
- + Fix issue that caused vertical scrolling of the Outputs and Mixes columns on the Outputs and Mixes tabs.
- + The "Flip" label shown on outputs/mixes in the Outputs and Mixes layout views now updates when the output/mix flip property is changed.
- + The undo functionality on the Outputs and Mixes tab now work with the flip property.
- + The fourth press of the DMX HUD keyboard shortcut [F4] now shows the fourth control source universe.
- + A "No Depth Test" property has been added for topos and 3D objects with added ModelInfo properties. This option causes depth testing for the object to be disabled, which resolves issues when drawing topo PixRects and can improve results with object dissolve transitions of SVG objects.
- + Image Remapping configurations are no longer always automatically saved when entering/leaving the Image Remap tab, which could lead to data being overwritten after a content synchronization involving the MultiScreenData.plist file.
- + Performing a content rescan now causes the Image Remap tab's data to be immediately updated if it is visible.



- + The licensing pane uses the selected product name when displaying “no license found...” alert message during the license validation process.
- + An incorrect license expiration date is no longer shown for an invalidated license.

#### **Director:**

- + When auto-patching an Mbox that uses a universe value > 255, the correct universe value is now displayed.

#### **Remote:**

- + Fix incorrect “next address” calculations with pixel mapping fixture addressing that could occur when fixtures spanned across universes.
- + Image Remapping configurations are no longer always automatically saved when entering/leaving the Image Remap tab, which could lead to data being overwritten after a content synchronization involving the MultiScreenData.plist file.
- + Pixel mapping group renumbering has been improved and no longer makes a copy as previously, which required the original group to be deleted manually.
- + Fix issues with buttons for pixel mapping test functionality.
- + UI compatibility updates for newer versions of macOS.

#### **Daemon:**

- + Fix issue that assigned an invalid product name to the Daemon database upon initial software install and first launch.
- + Potential fix for stalling of thumbnail creation with large ingests.

#### **Art-Net Tester:**

- + Fixes for displayed colors when using CIE xy display mode.

### **Known Limitations**

#### **All:**

- + When the host computer uses macOS 15.x Sequoia, applications in the Mbox family may exhibit unexpected behavior with regard to the use of local networking, especially with protocols using multicast.
  - This issue is a bug in the Sequoia operating system relating to the new Security and Privacy > Local Network permission setting. Apple has been notified of this issue and we are awaiting a resolution.
  - After the computer is (re)booted this issue can result in applications being unable to send/receive sACN data or with Director/Remote being unable to see/find the Mbox application on the network.
  - A verified workaround is to quit the application(s) and to go to the System Settings > Security and Privacy > Local Network preference pane and to toggle off then on the switch for the affected application(s). Then relaunch the affected application(s). Once this process is completed, the application(s) will work correctly until the next reboot, at which point the process may need to be repeated.