

**BrightSign®**

# FIRMWARE RELEASE NOTES

Version 6.0.51 (BrightSign 4Kx42, XDx32, XDx30, HDx22)

## Updating your BrightSign Software

1. Unzip the downloaded file and copy the *.bsfw* file to the root directory of your SD card.
2. Insert the SD card into your BrightSign player.
3. Power on the BrightSign player.
4. Ensure that the yellow update LED is blinking during the update process. Once the player has finished updating, it will automatically delete the *.bsfw* file from the SD card and reboot.

## Changes Since 6.0.41

### End-User Notes

#### Bug Fixes

- (4Kx42 only) Players are again able to connect with the Iguanaworks IR transceiver.
- Playing a streaming *.ts* video more than once using a rotated HTML page no longer causes a blank screen or video corruption.
- If an HTML page uses local image assets, those files are now correctly cached to decrease load times.
- (4Kx42, XDx32, XDx30 only) GNU Unifont support has been fixed.
- (4Kx42 only) The 3840x2160x50/59.94/60p video modes no longer exhibit a single line of blank pixels on the right side of the screen.
- Rotated 1080p HDMI input no longer exhibits video corruption.

- (4K1142 only) HDMI input now works with devices that output 4k60p with the YCbCr 4:2:2 or 4:2:2 color space.
- (4K1142 only) The player no longer gets stuck on a green screen if a hotplug event occurs on the HDMI output when the HDMI input is being displayed.
- Touch events at the edges of the screen no longer occasionally fail to register.
- Players now support newer versions of the ELO ET4201L touch screen.
- Video corruption no longer occurs after switching from a HDMI input at 1080i60/59.94 to a video file and then back again.
- (HDx22 only) Setting the "latency" parameter of a video stream to approximately 5000ms or greater no longer causes playback issues.

## Improvements

- Players will now play media files from a uSD or MSATA storage device if it does not contain a presentation file (*autorun.brs*).
- If an HDMI monitor is connected to the player after it boots up (i.e. an HDMI hotplug event occurs), the player will reboot and switch to the preferred video mode of that monitor if it's different from the current mode. This only occurs if the **Force Resolution** box has not been checked or if there is no BrightAuthor presentation on the card.
- If a storage drive is in use, the **Format Storage** option in the Diagnostic Web Server (DWS) no longer allows attempts to format it.

## Developer Notes

### New Features

- "audiodelay" parameter for the `encoder`: streaming component

### Bug Fixes

- The default audio/video synchronization of `encoder`: component streams has been improved.
- The "display:none" CSS attribute now works with `<video>` elements that have HWZ enabled.
- A `<video>` element that has HWZ enabled will no longer be visible if it is outside the HTML widget dimensions.
- Calling "transform:rot90" on a non-HWZ `<video>` element now rotates it by 90 degrees, rather than 180 degrees.
- The JavaScript `Play()` function now plays correctly after the video `<src>` changes.
- The `roHtmlWidget.FlushCachedResources()` method has been fixed. This method has not worked in any of the previous 6.0 releases.

### Improvements

- The following objects now support decryption of encrypted image files: `rolImageWidget`, `roCanvasWidget`, `roVideoPlayer`, `roClockWidget`, `roTextWidget`.

- The changes to the "auto" video mode in firmware 6.0.41 have been reverted: A player set to "auto" now uses the highest resolution mode reported by both the monitor and player, rather than using the preferred mode (DTD) reported by the monitor.
- The speed at which *roCanvasWidget* rectangles can be redrawn has been improved.
- The CEA-608 and CEA-708 subtitle standards are now supported with rotated video as well.
- The `StoreEncryptionKey()` and `StoreObfuscatedEncryptionKey()` methods (available on the *roVideoPlayer*, *roAudioPlayer*, and *roAudioPlayerMx* objects) now support the "AesCtrHmac" algorithm.