BrightSign®

FIRMWARE RELEASE NOTES

Version 6.1.37 (BrightSign 4Kx42, XDx32, XDx30, HDx22)

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Changes Since 6.0.51

Known Issues

The following are known issues with the 6.1.34 release. We are working to resolve these issues in the next release:

- Seamless looping doesn't work with MOV/MP4 HTTP streams.
- BrightWall synchronization drifts over time when playing multicast video.
- New Mosaic Mode API lacks Z-ordering control.
- YouTube playback is broken when video is preceded by an advertisement.
- Video positioning for portrait-mode HTML video does not work with HWZ disabled. When HWZ is enabled, positioning will be broken for the first play through only.
- When downgrading from this firmware version, the progress bar will fail to display on screen.

End-User Notes

New Features

- (4Kx42) Support for HDR video (CEA HDR10)
- Support for HTML Media Source Extensions (e.g. YouTube live streams)
- Left-to-right scrolling support for Ticker zones (the direction is determined automatically by the language of the text added to the ticker)

- Support for the Acer UT220HQL multi-touch monitor
- Support for the Unitec USB touch foil

Bug Fixes

- TrueType fonts with negative vertical ink positions no longer appear clipped. If you're creating text fields using BrightAuthor, you will need to set the **Font Size** to **Fixed point size**, rather than **Automatic**, for this fix to work.
- The **HTML Data** and **HTML Storage** segmentation options in **Edit > Preferences > Storage** have been fixed.
- HTML playlists that include both local and multicast video no longer fail to play local videos after the first cycle.
- (XDx30) Certain HTML presentations no longer encounter OOM errors and crash.
- The modified CSS of an HTML presentation now correctly takes effect once that presentation is republished. Previously, the CSS would only change after rebooting the player.
- MP4 videos with fading now play correctly on HTML pages.
- A player will now correctly auto-play an *index.html* file located in the root folder of the storage. This only occurs if the root folder does not contain an *autorun.brs* file.
- Closed captions no longer have scaling issues.
- (4Kx42) Switching from 8-bit video to 10-bit video within the same video window no longer causes the window to go black.

- Audio playback no longer fails with some .MOV videos that are generated on cameras.
- (4K1142, XD1132, XD1230) Video playback no longer becomes jerky after switching from HDMI input to a video file and back again.
- (4K1142) Hot-plugging HDMI output no longer prevents HDMI input from being displayed.
- Screenshots now work with portrait-mode video that is set to scale-to-fit.
- (4Kx42, XDx32) Players now successfully encode 44.1 KHz audio.
- (4Kx42, XDx32) LLDP PoE power negotiation has been fixed.
- (XDx32, XDx30) The WiFi/Ethernet indicator LED now remains on after the player connects to a network.
- Running Network Diagnostics from the Diagnostic Web Server no longer causes the player to crash.
- The **Remove Password** option on the Diagnostic Web Server can now be used to remove the default password.

Improvements

- (4Kx42, XDx32) The framerate of animations when displaying a single, full-screen page has been improved.
- HTML video now supports seeking.
- Search engines are no longer allowed to index the contents of an unsecured Diagnostic Web Server instance.
- The **Video** tab of the Diagnostic Web Server now displays whether HDR is enabled or disabled.

- The **Storage** tab of the Diagnostic Web Server now provides information about the SD card, including the vendor, speed class, and serial number.
- When more than one storage device is attached to a player, the Diagnostic Web Server now provides access to all of them.
- You can now download a recently generated crash dump from the Diagnostic Web Server.

Developer Notes

New Features

- Fade-in/fade-out support for *roVideoPlayer* and *roAudioPlayer* objects
- *roStreamQueue* object, which allows you to play a list of video files as if they are seamlessly looping
- `image-rendering:optimizeSpeedBs` CSS property, which improves performance for pages that scale a large number of images at runtime
- `fade:always` parameter for the "hwz" attribute. This specifies that videos within an HTML `<video>` element should fade in when they begin.
- *roRtspStream.SetMaxBitrate()* method
- *roNetworkDiscovery* object, which allows for zeroconf discovery among BrightSign players on a local network
- *roHttpServer.AddGetFromFolder()* method, which provides an easy way to serve up an index of files to clients

- Support for client HTTPS certificates via the *roUrlTransfer.SetClientCertificate()* method
- `SetCookie()`, `SetCookieFile()`, and `GetCookies()` methods for the *roUrlTransfer* object

Bug Fixes

- Portrait-mode HTML video now displays correctly when offset and stretched.
- Calling `Hide()`/`Show()` on an HTML video now correctly hides/shows the closed captions as well.
- Rotated multi-screen HTML video playback works again.
- A `<div>` with an `opacity:0` attribute no longer creates a ghost image if it is initially drawn off screen.
- The HTML "viewport" tag no longer causes incorrect page layout.
- The `SetAppCacheSize()`, `SetLocalStorageQuota()`, and `SetWebDatabaseQuota()` methods on the *roHtmlWidget* object have been fixed.
- HTML pages no longer fail to load image files containing parentheses.
- The *roVideoPlayer.PreloadFile()* method once again sets all videos to wait at the first frame for playback.
- Enhanced Synchronization (BrightWall) now uses the first PTS value in a video file, rather than the PCR value. This fixes synchronization issues that occurred with some video files.
- A player with its video mode set to "auto" will no longer reboot if a display is hot-plugged via HDMI but does not offer EDID information.
- (4K242, XD232) Calling `roDeviceInfo.HasFeature("GPIO")` now correctly returns True.
- (HDx22) The *roAudioOutput.SetAudioDelay()* method now returns a value quickly.
- Passing an Integer as a Boolean to the *roHtmlWidget.EnableSecurity()* method now works again.

Improvements

- An improved Mosaic Mode API has been implemented via the *roVideoMode.SetDecoderMode()* BrightScript method and *BSVideoMode.SetDecoderMode()* JavaScript method. Note that this functionality is still in development and may exhibit some instability.
- The *roVideoMode.GetHdmiOutputStatus()* method now returns an "EOTF" entry, which specifies whether the video output is HDR or SDR.
- (4K1142, XD1132) The *roVideoMode.ConfigureHdmiInput()* method can now enable pass through of the following audio codecs: TruHD, MLP, DTS, DTSHD.
- It is now possible to play 10-bit 4K (H.265) video streams from the network.
- New `GetEvents()` method allows you to retrieve timecode events added to an *roVideoPlayer* or *roAudioPlayer* instance.
- The *roHtmlWidget* object now supports 270-degree portrait rotation via the `SetTransform()` method.
- (4Kx42, XDx32) The cache for decoded images has been increased from 16MB to 32MB.
- New *roTouchScreen.SetMouseRotation()*method allows you to configure mouse inputs for different screen-rotation configurations.
- The *roCanvasWidget* object now supports image rotation.
- The *BSMessagePort* JavaScript object now supports nested dictionaries.
- New *roKeyboard.IsPresent()* method allows you to determine if a keyboard is connected to the player.

- When a *BSSerialPort* JavaScript object is used to open a serial port, any previous *BSSerialPort* instance using the same port is disconnected.
- New *BSSerialPort.Close()* JavaScript method allows you to manually disconnect from a serial port without destroying the object instance.
- When a new *BSIRReceiver* JavaScript object is created, any previous *BSIRReceiver* instance is disconnected.
- New *BSIRReceiver.Close()* JavaScript method ensures the IR transceiver hardware is released by the object.
- A soft reboot on the player now causes a full power cycle for USB devices.
- The `ReadAsciiFile()` method no longer attempts to read files larger than 8MB in order to prevent OOM crashes.
- New *roNetworkConfiguration.GetRecoveryUrl()* method allows you to retrieve the current recovery URL stored in the registry (which can be set via a script or DHCP Option 43).
- New *roNetworkConfiguration.GetWiFiESSID()* method returns the currently configured ESSID (whether the player is currently connected to the wireless network or not).
- New *roNetworkConfiguration.SetWiFiPassphraseAndObfuscate()* method allows you to set the WiFi passphrase and then retrieve the obfuscated version of that passphrase.