



NanoLumens Optimal Display



The circular NanoLumens LED displays in the Bennett Event Center can show video, dynamic motion graphics or still images. With the nature of these circular screens, messages will need to be repeated multiple times around the display for the optimal viewing. See Figure 1 and Figure 2. Ideal content for these screens will mimic motion graphics found on ribbon LED screens at a basketball or hockey arena.

These displays in the Bennett Event Center have two display sizes: 1008 x 288px and 1440 x 288px.



Figure 1: NanoLumens Display Type 1 sample content

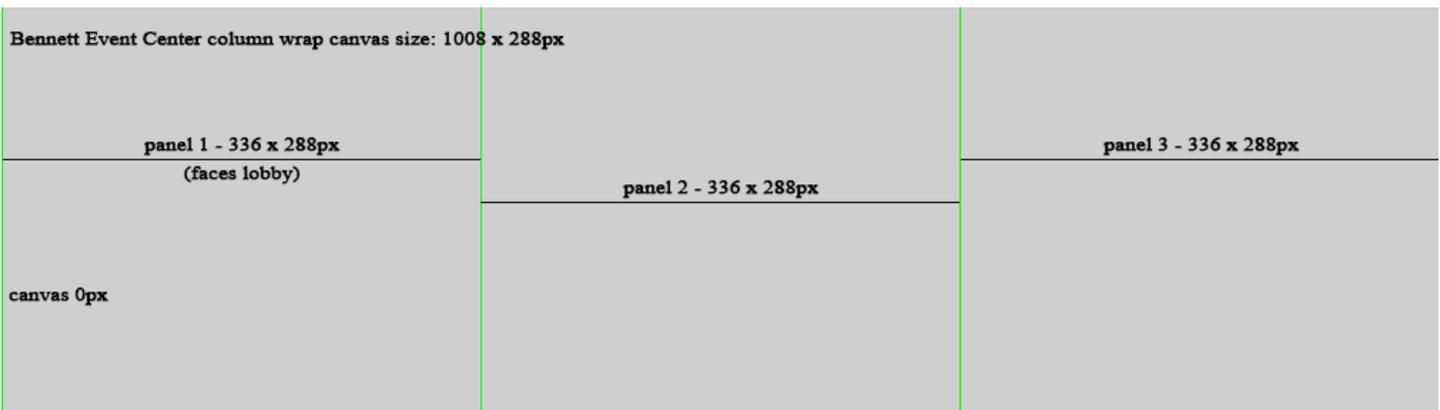


Figure 2: NanoLumens Display Type 1 sample layout



NanoLumens Display Type 1 Specs

NanoLumens Display Type 1 LED display size: 1008 x 288px

Importable still images formats (Color space: RGB at 72 dpi): JPEG or PNG

Media type (at 29.97 fps): MP4/H.264

General video settings

Codec (format)	H.264
Profile	Main
Level	3.1 or higher
Bitrate (target - maximum Mbps)	Approximately 10-12 Mbps; VBR, 1 pass or 2 pass
File format	MP4
Frame rate (frames/second)	North American video output format - 29.97 fps

***Note: Video content produced at 1920 x 1080px or 1280 x 720px will not be played on these screens.*

***Note: These screens do not allow for audio to accompany the video display.*

Various video editing software can be used to create dynamic video content. Follow the steps below to set the correct output values to create video content in H.264 codec format for the 1008 x 288px display.

Adobe® Media Encoder® Program Settings

1. Import your video or sequence.
2. Navigate to the Export Settings. Select H.264 from the format drop-down list. Refer to **Figure 3**.

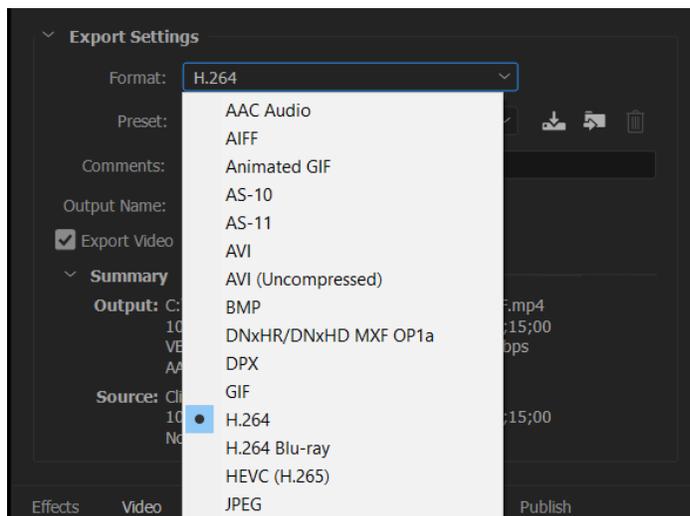


Figure 3: Setting the format



STATE FAIR PARK Bennett Event Center LED Displays Spec Sheet

3. Navigate to the Basic Video Settings. Refer to **Figure 4**.
 - a. Set width to 1,008 and height to 288.
 - b. Select 29.97 from the Frame Rate drop-down list.
 - c. Select Progressive from the Field Order drop-down list.
 - d. Select Square Pixels (1.0) from the Aspect drop-down list.
 - e. Select Main from the Profile drop-down list.
 - f. Select 3.1 from the Level drop down list.

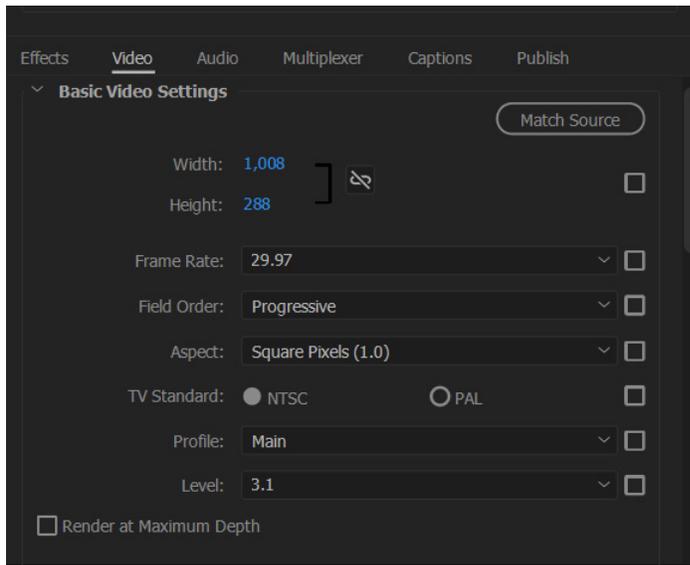


Figure 4: Setting the Basic Video Settings

4. Navigate to Bitrate Settings. Set the Target Bitrate and Maximum Bitrate with the slider bars refer to **Figure 5**.
5. Click OK.

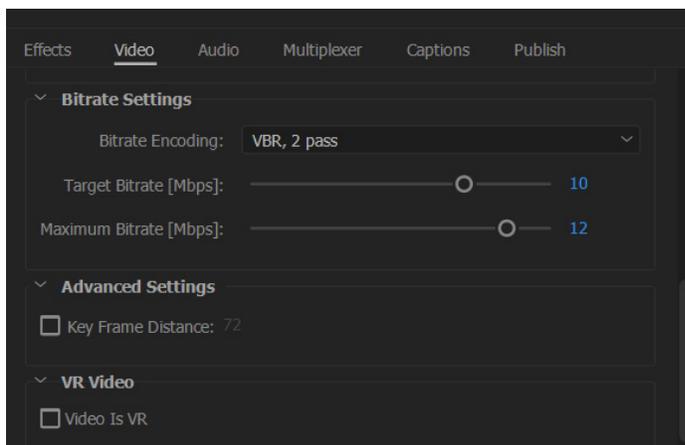


Figure 5: Setting the Bitrate



NanoLumens Display Type 2 LED Specs



Figure 6: NanoLumens Display Type 2 sample content



Figure 7: NanoLumens Display Type 2 sample layout

NanoLumens Display Type 2 LED display size: 1440 x 288px
Importable still images formats (Color space: RGB at 72 dpi): JPEG or PNG
Media type (at 29.97 fps): MP4/H.264

General video settings

Codec (format)	H.264
Profile	Main
Level	3.1 or higher
Bitrate (target - maximum Mbps)	Approximately 10-12 Mbps; VBR, 1 pass or 2 pass
File format	MP4
Frame rate (frames/second)	North American video output format - 29.97 fps

***Note: Video content produced at 1920 x 1080px or 1280 x 720px will not be played on these screens.*
***Note: These screens do not allow for audio to accompany the video display.*



Adobe® Media Encoder® Program Settings

1. Import your video or sequence.
2. Navigate to the Export Settings. Select H.264 from the format drop-down list. Refer to **Figure 8**.

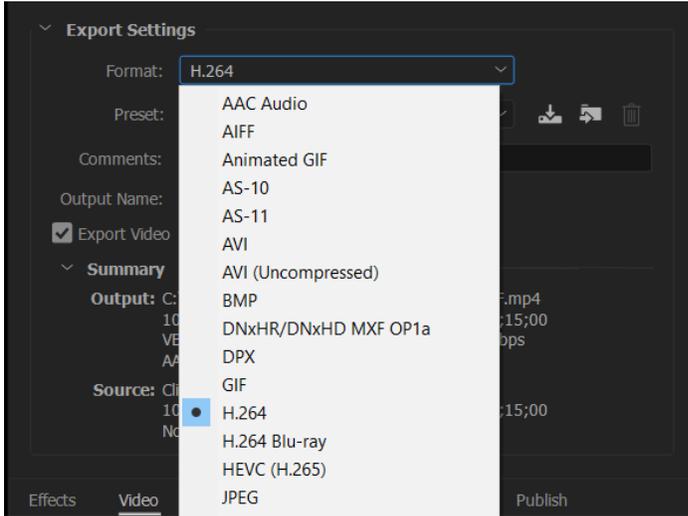


Figure 8: Setting the format

3. Navigate to the Basic Video Settings. Refer to **Figure 9**.
 - a. Set width to 1,440 and height to 288.
 - b. Select 29.97 from the Frame Rate drop-down list.
 - c. Select Progressive from the Field Order drop-down list.
 - d. Select Square Pixels (1.0) from the Aspect drop-down list.
 - e. Select Main from the Profile drop-down list.
 - f. Select 3.1 from the Level drop down list.

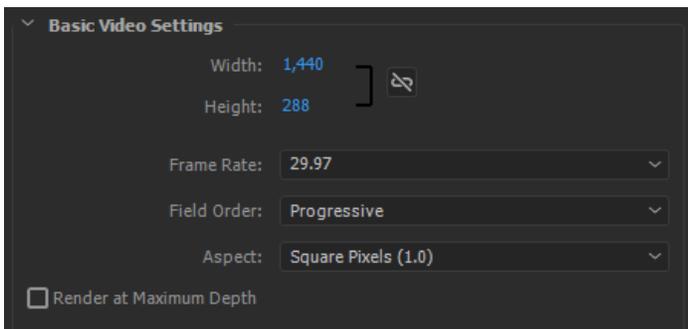


Figure 9: Setting the Basic Video Settings



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4. Navigate to Bitrate Settings. Set the Target Bitrate and Maximum Bitrate with the slider bars refer to **Figure 10**.
5. Click OK.

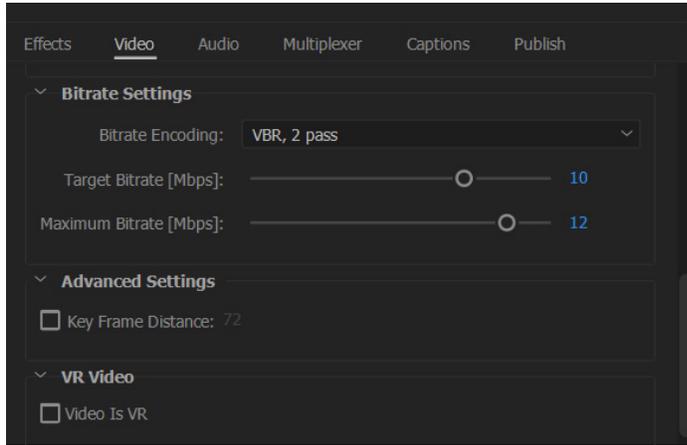


Figure 10: Setting the Bitrate