

Open Signal Broadcast Specifications

This document contains the technical specifications for videos submitted to Open Signal for playback.

- Video does not contain commercial content (advertising, calls to action, pricing info, etc.)
- No black or bars needed at beginning or end of video
- Frame Rate: **29.97 fps**
- Preferred file types for file submission: (container formats) **.mov .mpg .mp4**
- Compression Codecs:
 - **Mpeg2** – Standard Definition (SD) legacy format used for DVD.
 - **H.264** – High Definition (HD) high quality format but more compressed than Apple Pro Res. Results in a much smaller file while maintaining quality. Common for web videos as well.
 - **Apple Pro Res LT** – High Definition (HD) high quality format with less compression than H.264, however resulting file size is huge and will take longer to upload to Open Signal's servers.
- Aspect Ratios: **16:9 (HD), 4:3 (SD)**
- Resolution:
 - **HD – 1920 x 1080**
 - **SD – 720 x 480**
- Video Bitrate: **15-20 Mbps**
- Audio: **48kHz**
 - Broadcast dynamic range between **-6dB (peak)** and **-20dB**
- Important: audio higher than -6dB may distort

For questions, email playback@opensignalspdx.org.