

## HD File Specification

| Apple Quicktime ProRes 422HQ  | Apple Quicktime ProRes 4444   | Quicktime Wrapped Avid DNxHD 185  | Sony XDCAM HD MXF   |
|---|---|---|---|
| <b>Video:</b><br>Codec: <b>Apple Quicktime ProRes 422 HQ</b><br>Container: <b>MOV</b><br>Interlacing: <b>Top Field First / Progressive</b><br>Frame Size: <b>1920x1080</b><br>Frame Rate: <b>25 FPS</b><br>Aspect Ratio: <b>16:9</b><br>Color space: <b>709/RGB</b>                     | <b>Video:</b><br>Codec: <b>10bit/12bit</b><br>Container: <b>MOV</b><br>Interlacing: <b>Top Field First / Progressive</b><br>Frame Size: <b>1920x1080</b><br>Frame Rate: <b>25 FPS</b><br>Aspect Ratio: <b>16:9</b><br>Color space: <b>709/RGB</b>                                       | <b>Video:</b><br>Codec: <b>8bit/10bit DNxHD</b><br>Container: <b>MOV</b><br>Interlacing: <b>Top Field First / Progressive</b><br>Frame Size: <b>1920x1080</b><br>Frame Rate: <b>25 FPS</b><br>Aspect Ratio: <b>16:9</b><br>Color space: <b>709/RGB</b>                                  | <b>Video:</b><br>Codec: <b>8bit</b><br>Container: <b>MXF</b><br>Profile: <b>4:2:2@High</b><br>Interlacing: <b>Top Field First / Progressive</b><br>Frame Size: <b>1920x1080</b><br>Frame Rate: <b>25 FPS</b><br>Aspect Ratio: <b>16:9</b><br>Color space: <b>709/RGB</b>                |
| <b>Audio:</b><br>Codec: <b>Integer (Little Endian) PCM</b><br>Sample Rate: <b>48kHz</b><br>Sample Size: <b>16/24bit</b><br>Channels: <b>Stereo</b><br>Loudness Standard: <b>EBU R128</b><br>Integrated: <b>-23 LUFS</b><br>Short Term: <b>-20LUFS</b><br>True Peak Level: <b>-1dbTP</b> | <b>Audio:</b><br>Codec: <b>Integer (Little Endian) PCM</b><br>Sample Rate: <b>48kHz</b><br>Sample Size: <b>16/24bit</b><br>Channels: <b>Stereo</b><br>Loudness Standard: <b>EBU R128</b><br>Integrated: <b>-23 LUFS</b><br>Short Term: <b>-20LUFS</b><br>True Peak Level: <b>-1dbTP</b> | <b>Audio:</b><br>Codec: <b>Integer (Little Endian) PCM</b><br>Sample Rate: <b>48kHz</b><br>Sample Size: <b>16/24bit</b><br>Channels: <b>Stereo</b><br>Loudness Standard: <b>EBU R128</b><br>Integrated: <b>-23 LUFS</b><br>Short Term: <b>-20LUFS</b><br>True Peak Level: <b>-1dbTP</b> | <b>Audio:</b><br>Codec: <b>Integer (Little Endian) PCM</b><br>Sample Rate: <b>48kHz</b><br>Sample Size: <b>16/24bit</b><br>Channels: <b>Stereo</b><br>Loudness Standard: <b>EBU R128</b><br>Integrated: <b>-23 LUFS</b><br>Short Term: <b>-20LUFS</b><br>True Peak Level: <b>-1dbTP</b> |

## SD File Specification

| Uncompressed  | Quicktime ProRes 422HQ  | Avid MPEG50   | Avid DV50   |
|---|---|---|---|
| <b>Video:</b><br>Codec: <b>Quicktime Uncompressed</b><br>Container: <b>MOV</b><br>Interlacing: <b>Top Field First / Progressive</b><br>Frame Size: <b>1024x576/720x576</b><br>Frame Rate: <b>25 FPS</b><br>Aspect Ratio: <b>16:9</b><br>Color space: <b>601/RGB</b>                     | <b>Video:</b><br>Codec: <b>Apple Quicktime ProRes 422HQ</b><br>Container: <b>MOV</b><br>Interlacing: <b>Top Field First / Progressive</b><br>Frame Size: <b>1024x576/720x576</b><br>Frame Rate: <b>25 FPS</b><br>Aspect Ratio: <b>16:9</b><br>Color space: <b>601/RGB</b>               | <b>Video:</b><br>Codec: <b>Avid MPEG50</b><br>Container: <b>MOV</b><br>Interlacing: <b>Top Field First / Progressive</b><br>Frame Size: <b>1024x576/720x576</b><br>Frame Rate: <b>25 FPS</b><br>Aspect Ratio: <b>16:9</b><br>Color space: <b>601/RGB</b>                                | <b>Video:</b><br>Codec: <b>Avid DV50</b><br>Container: <b>MOV</b><br>Interlacing: <b>Top Field First / Progressive</b><br>Frame Size: <b>1024x576/720x576</b><br>Frame Rate: <b>25 FPS</b><br>Aspect Ratio: <b>16:9</b><br>Color space: <b>601/RGB</b>                                  |
| <b>Audio:</b><br>Codec: <b>Integer (Little Endian) PCM</b><br>Sample Rate: <b>48kHz</b><br>Sample Size: <b>16/24bit</b><br>Channels: <b>Stereo</b><br>Loudness Standard: <b>EBU R128</b><br>Integrated: <b>-23 LUFS</b><br>Short Term: <b>-20LUFS</b><br>True Peak Level: <b>-1dbTP</b> | <b>Audio:</b><br>Codec: <b>Integer (Little Endian) PCM</b><br>Sample Rate: <b>48kHz</b><br>Sample Size: <b>16/24bit</b><br>Channels: <b>Stereo</b><br>Loudness Standard: <b>EBU R128</b><br>Integrated: <b>-23 LUFS</b><br>Short Term: <b>-20LUFS</b><br>True Peak Level: <b>-1dbTP</b> | <b>Audio:</b><br>Codec: <b>Integer (Little Endian) PCM</b><br>Sample Rate: <b>48kHz</b><br>Sample Size: <b>16/24bit</b><br>Channels: <b>Stereo</b><br>Loudness Standard: <b>EBU R128</b><br>Integrated: <b>-23 LUFS</b><br>Short Term: <b>-20LUFS</b><br>True Peak Level: <b>-1dbTP</b> | <b>Audio:</b><br>Codec: <b>Integer (Little Endian) PCM</b><br>Sample Rate: <b>48kHz</b><br>Sample Size: <b>16/24bit</b><br>Channels: <b>Stereo</b><br>Loudness Standard: <b>EBU R128</b><br>Integrated: <b>-23 LUFS</b><br>Short Term: <b>-20LUFS</b><br>True Peak Level: <b>-1dbTP</b> |

Action/Safe marks: Safe Action 90%, Safe Title 80%  
 Alpha reference: [https://storage.googleapis.com/maile/sign/ActionSafe\\_alpha.psd](https://storage.googleapis.com/maile/sign/ActionSafe_alpha.psd)  
 All tv commercials must be frame accurate.

Resources:  
 AVID Codecs [http://avid.force.com/pkb/articles/en\\_US/download/Avid-QuickTime-Codecs-LE](http://avid.force.com/pkb/articles/en_US/download/Avid-QuickTime-Codecs-LE)  
 National Audiovisual Council of Romania (R128 specs) <http://www.cna.ro/RECOMANDARE-privind-nivelul-t-riei.html>

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