

# Suggested Video Encoding Guide (Abridged)

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## MP700 & MP70 Digital Media Appliances – NTSC Version

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### Description of Document:

The purpose of this document is to provide information on encoding video for the CE labs MP500 players. The MP700/MP70 supports three main formats: Windows Media 9, MPEG-4 part 10 (h.264) and MPEG-2. Windows Media 9 can take the form of a WMV/WMA or VC-1. MPEG-2 can take the form of a program stream or transport stream. There are guidelines for encoding each of these formats, however, we suggest using the MPEG-4 container with the h.24 codec for optimized playback, which is specified below.

### MP700/MP70 Video/Audio Encoding Settings For MPEG-4 (h.264 Codec)

#### Video Settings:

File Format: Mpeg 4

Frame rate: 23.97 or 29.97

Codec: H.264

Resolution: 1920 x 1080

Bit rate: Variable bit rate = Target: 20 Mbps

Maximum: 35 Mbps *(Do not allow bit rate to fall below 500 Kb/S) If using a fixed bit rate, 18 to 25 Mb/S produces an excellent picture*

#### Audio Settings:

Codec: AAC(Mpeg 4)

Output Channels: Stereo

Frequency: 44.1 kHz or 48kHz

Bit rate: 192 kbps

Target of -12 dB



**(Note:** Frame rate and frequency will need to be the same as the source video being encoded)

### Suggested programs for encoding content:

There are many types of video encoders that are available. Below is a list of encoders we have used to successfully encode video content for smooth playback on the MP500.

Adobe Media Encoder

QuickTime Pro

Wondershare Media Encoder

HE-AAC 5.1

WMA9 2.0

Dolby Digital 5.1