

# Datasheet elgato turbo.264

## Technical Specifications

Turbo.264 converts videos to superior quality H.264 (MP4) files at amazing speeds, and is perfect for anyone who wants to put their own video content on an iPod®, Apple TV®, or Sony PSP®. Because Turbo.264 is a hardware encoder, it frees up the processor for other tasks while video encoding is in progress. Think of it as a “co-processor” for your Mac—a real benefit for anyone who likes to keep several applications open while they are converting videos, especially on older Macs.

Turbo.264 comes with its own video converter software. The application converts the files, drops them into iTunes for you, and automatically syncs with your iPod or Apple TV.

Turbo.264 also supports the export command of most popular Macintosh video applications, such as iMovie®, QuickTime Pro®, Final Cut Pro® and EyeTV®. Turbo.264 works in conjunction with these applications to dramatically accelerate the video encoding process.

## Enclosed you will find

- Turbo264 video encoder hardware
- Turbo264 video converter software (CD-ROM)
- USB cable
- Quick Start Guide

## System Requirements

- Macintosh computer with PowerPC G4, PowerPC G5 or Intel Core processor
- 512 MB of RAM
- built-in USB 2.0 port
- Mac OS X 10.4 (or later)
- QuickTime 7.1.5 (or later)
- iTunes 7.1.1 (or later)

## Connections

- USB 2.0, bus powered

## Input formats

### Applications using QuickTime export

- Any movie that QuickTime plays (through codecs that ship with QuickTime as well as codecs that are supplied by third-party components like Flip4Mac)

### Turbo264 video converter software

- Any movie that QuickTime plays (through codecs that ship with QuickTime as well as codecs that are supplied by third-party components like Flip4Mac)
- MPEG Program Stream/System Stream (including unencrypted DVD/HD DVD content)

## Output formats

### Apple TV Video:

H.264 Main Profile, 5 Mbps max., 800×600 max., 30 fps max.  
Audio: AAC-LC, stereo, 128 Kbps, 48 kHz.  
(Note: If the source movie is larger than 800×600 it will be scaled to fit within 800×600 preserving aspect ratio. Resolution is maintained if 800×600 or smaller. Frame rate is maintained when 30 fps and smaller.)

### iPod (Best) Video:

H.264 Baseline Profile Low-Complexity, 1.5 Mbps max., 640×480 max., 30 fps max.  
Audio: AAC-LC, stereo, 128 Kbps, 48 kHz.  
(Note: If the source movie is larger than 640×480 it will be scaled to fit within 640×480 preserving aspect ratio. Resolution is maintained if 640×480 or smaller. Frame rate is maintained when 30 fps and smaller.)

### iPod (Smallest) Video:

H.264 Baseline Profile (up to Level 1.3), 768 kbps max., 320×240 max., 30 fps max.  
Audio: AAC-LC, stereo, 128 Kbps, 48 kHz.  
(Note: If the source movie is larger than 320×240 it will be scaled to fit within 320×240 preserving aspect ratio. Resolution is maintained if 320×240 or smaller. Frame rate is maintained when 30 fps and smaller.)

### Sony PSP Video:

H.264 Main Profile, 512 Kbps, 368×208/320×240, 30 fps.  
Audio: AAC-LC, stereo, 128 Kbps, 48 kHz.  
(Note: A source with 16:9 aspect ratio will produce a 368×208 destination movie while a 4:3 video results in a 320×240 file.)

## Compatible Devices

- Video-enabled devices that connect to iTunes (Apple TV, 5th Generation iPod or better)
- Sony PSP

## Size and weight

- Height: 30 mm
- Width: 85 mm
- Depth: 12 mm
- Weight: 35 g

## Performance Chart

11:17 with Turbo264

59:30 without Turbo264

Encoding time in minutes. Test conducted on a MacBook 2GHz Core 2 Duo with QuickTime Player Pro 7.1.5. Test file: 10 minute DV 16:9 clip. Export setting: Movie to Apple TV.

