Handbrake - Blu-Ray Settings for HD & UHD Sources

First, create an MKV file with MakeMKV. This format contains the entire program, all audio versions, as well as subtitles. It makes sense to keep these on hand as they function as "masters" for future possible exports. These settings reflect a compromise between quality, ability to stream online, and file size.

Summary:

The first pane in Handbrake allows you to choose export format and gives you basic information about the source file.

- Format: MP4
- Web Optimized: Checked
- Align A/V Start: Checked

😑 😑 💼 🔯 The Thin Blue Line_BRD.mkv	
Open Source Add To Queue Start Pause	Presets Preview Queue Activity
Source: The Thin Blue Line_BRD, 1920x1080, 23.976 FPS, 2 audio tracks, 1 subtities track	
Title: 1 - 01:41:42 - The Thin Blue Line_BRD S Angle: 1 S Range: Chapters 1 S	- 18 Ouration: 01:41:42
Preset: Vassar Blu-Ray Reload Save New Preset	
Summary Dimensions Filters Video Audio Subtitles Chapters	
Format: MP4 File	
Veb Optimized	
iPod 5G Support	
Tracks: H 264 (x264) 30 EPS PER	and see the second s
AAC (CoreAudio), Stereo	and the second se
Foreign Audio Search, Burned Chapter Markers	
Filters: Comb Datact Decomb	
Priters. Comb Detect, Decomb	
Size: 1920x1080 Storage, 1920x1080 Display	
	and the second
Save As: The Thin Blue Line_BRD.m4v To: 🏠 chris > 📴 Movies	Browse

Dimensions

The dimensions pane is where you can choose the aspect ratio and size of the export. Typically, we recommend letting the source dictate size here.

- Keep Aspect Ratio: Checked
- **Cropping:** Automatic
- Anamorphic: Off

		Summary	Dimensions	Filters	Video	Audio	Subtitles	Chapters
Storage Size:	1920 🗘 x	1080 🗘	Cropp	ing: 💽 Aı	utomatic			
	🗹 Keep Aspect	Ratio		O Ci	ustom:			
Display Size:	1920 X	1080				0		
PAR:	1 x	1				0	0	
Anamorphic:	Off 📀							
Modulus:	2 🗘							

Filters

With new HD and UHD titles, there is little need to detelecine or deinterlace your source files. Older formats may need these options, but we normally do not select any filters.

	0	Summary	Dimensions	Filters	Video	Audio	Subtitles	Chapters
Detelecine:	Off	0						
Interlace Detection:	Default	0						
Deinterlace:	Decomb	0	Preset:	Default	<			
Color:	Grayscale							
Rotate:	0° ᅌ 🗆 F	Flip						
Deblock:	Off	0						
Denoise:	Off	0						
Sharpen:	Off	0						

Video

These are the most important of the options you will choose for ripping discs. We've gone with h.264 for wide compatibility and convenient file size. Since most high definition commercial titles use 8-bit compression, the normal version of h.264 will suffice. HDR, UHD and 4K titles would benefit from a higher bit depth. These settings are specific for streaming. You can choose a higher bitrate for local storage and playback.

- Video Encoder: h.264 (x264)
- Average Bitrate (kbps): 3000
- 2-pass recording: Checked
- Turbo First Pass: Checked
- Framerate: Same as Source
- Encoder Options: Leave as set by Handbrake (ie. Tune: none, Profile: main, Level: 4.0)

Variable Framerate Average Bitrate (kbps): 3000 Onstant Framerate 2-pass encoding Turbo first pass Encoder Options: Preset: Preset: Fast Fast Fast Fast Fast Fast Fast Fast	Video Encoder: Framerate (FPS):	H.264 (x264) Same as source	Quality:	Constant Quality	RF 22
Constant Framerate 2-pass encoding Turbo first pass Encoder Options: Preset:		• Variable Framerate	-	• Average Bitrate (kbps):	3000
Encoder Options: Preset: fast Tune: none fast Profile: main Additional Options: Level: 4.0 fast x264 Unparse: level=4.0:ref=2:8x8dct=0:weightp=1:subme=6:vbv-bufsize=25000:vbv-maxrate=20000:rc-lookahead=30		O Constant Framerate		🗹 2-pass encoding	V Turbo first pass
x264 Unparse: level=4.0:ref=2:8x8dct=0:weightp=1:subme=6:vbv-bufsize=25000:vbv-maxrate=20000:rc-lookahead=30	Tune:	none	Fast Decode		
	x264 Unparse: lev	4.0 vel=4.0:ref=2:8x8dct=0:v	veightp=1:subme=6:	vbv-bufsize=25000:vbv-ma	axrate=20000:rc-lookahead=30

Audio

With titles that have surround sound (usually 5.1 or 7.1) we will use a combination of outputs that includes both stereo and surround. This allows functionality with devices like Apple TV to utilize a surround mix while keeping stereo available for streaming and mobile devices. For older titles, surround mixes are usually unavailable. Select only a "Stereo" mixdown if the source mix is mono or stereo. **These settings must be confirmed, even when using a Preset.**

Stereo

- Track: Select Stereo or Surround Mix
- Codec: AAC (CoreAudio)
- Mixdown: Stereo
- Samplerate: Auto
- Bit Rate: 192
- Gain: 0

Surround Sound

- Track: Select Source Surround Mix (usu. Something like "English (DTS-HD) (5.1 Ch)"
- Codec: AAC (CoreAudio)
- Mixdown: 5.1 Channels
- Samplerate: Auto
- Bit Rate: 448
- Gain: 0

Track		Codec		Mixdown		Sampler	ate	Bitrate		Gain		DRC		
0: English (AC3) (5.1 ch) (448 kbps	s) 🗘	AAC (CoreAudio)	٢	Stereo	٥	Auto	٥	192	٢	$igodoldsymbol{ heta}$	0	۲	0	*
0: English (AC3) (5.1 ch) (448 kbps	s) 🗘	AAC (CoreAudio)	٢	5.1 Channels	٥	Auto	٥	448	٥	\bigcirc	0	۲	0	×
None	٢	No Value	\Diamond	None	\Diamond	Auto	\diamond	N/A	\diamond		0		0	4

Subtitles

Theoretically, the subtitle metadata track is exportable to streaming files. However, we have not found a reliable way to have subtitles as a selectable option during playback. If a title needs subtitling, it is best to burn it in on the video track. These cannot be hidden as they are part of the video image.

- Track: English
- Forced Only: Unchecked
- Burned In: Checked (should be checked by default when you uncheck "Forced Only)

rack	Forced O	Burned In	Default	Language		Encoding		Offset	
1: English [PGS]		V		No Value	0	No Value	٥	0	*
None 🗘				No Value	٥)	No Value	٢	0	*