Studio Holder - 4K UHD / HD Blu-Ray & DVD Authoring Convention

Before considering the Blu-Ray / DVD Authoring process entirely; it is worth checking you have the correct equipment to carry this out. This includes getting the **correct discs**, **writer/rewriter** and **player**.

	Discs	Optical Disc Writer/Rewriter	Player
Blu-Ray (4K/HD)	4K UHD Discs (4K) OR M-DISCs (4K/HD) OR Standard Blu-Rays (HD)	Blu-Ray Rewriter (HD) OWC Mercury Pro 16X Blu-Ray	4K UHD Blu-Ray Players OR HD Blu-Ray Players
DVD (SD)	DVD (SD)	DVD Rewriter (SD)	DVD Players (Standard Def)

Using Compressor:

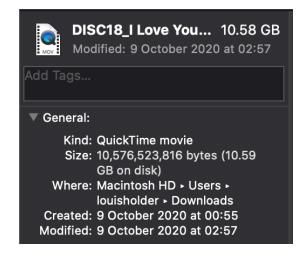


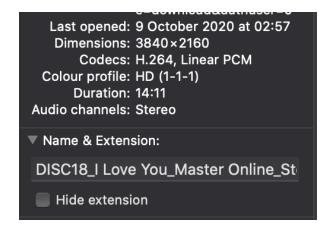
- Before opening Compressor (available on Mac App Store), in Finder Check the Properties of the Film Deliverable by clicking once on the file and pressing 'Get Info'; this should reveal key info about the file including:
 - a. **How large is the file** (in MB/GB) can it fit onto the disc you are encoding onto or does the file need to be compressed? This will become relevant in Compressor.
 - b. What Resolution / Aspect Ratio has the film been delivered in? It is usually best in the NLE / Editing Software to export the film in its native/source aspect ratio, otherwise you are just incurring menial data which is just simply BLACK bars (letterbox/pillarboxing). However, letterboxed/pillarboxed files are still acceptable. This will become relevant in Compressor.
 - c. What Colour Space has the film been delivered in? (i.e Rec. 709), it will be relevant later.
 - d. What Codecs does the file have?
 - i. (i.e) 'H.264, Linear PCM' this means the film was exported in the .H.264 codec, which mostly likely means the film is wrapped/contained in the .MP4 format. This relates to the Video. In this example; Linear PCM is the sound codec, which is a professional blu-ray standard. This will become relevant in Compressor.
 - e. How many Audio Channels does the deliverable have?
 - i. In most cases, for internet/web and short film content, this will be Stereo (2 channels). This will become relevant in Compressor.
 - ii. Some productions/projects may have been delivered in 5.1 Surround Sound (6 Channels), 7.1 Surround Sound (8 Channels) or Dolby Atmos.
 - f. How long is the file's Running Time?



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- 2. Open Compressor
- 3. In 'Current', Add File and navigate to where the film file/deliverable is saved and open it up.
- 4. A dialog box entitled 'Select one or more settings' will appear.

Blu-Ray Disc	DVD
 Under 'Create Blu-Ray', Hold Command	 6. Under 'Create DVD', Hold Command
(CMD) on the following: a. Dolby Digital b. H.264 for Blu-Ray	(CMD) on the following: a. Dolby Digital b. MPEG-2 for DVD

The file is loaded into the job bay. **You need to select specific settings** in the right-hand job pane, and to check that these details are correct for the project:

- c. Job Details
- d. Timing
- e. File Properties
- f. Video Properties
- g. Metadata
- h. HDR Metadata
- i. 360 degrees Metadata
- j. Audio Properties
- k. Action This is really important to get correct. Change 'When Done' to Create Blu-ray disc. If there are captions toggleable in the film; tick the box 'Save captions to disk'. You must select external output!
- 7. Click 'Start Batch'.
- 8. **The job will start rendering and will appear in the 'Active' tab**, along with a breakdown of the procedures the job will take. This process is about preparing/encoding the deliverables so they are ready for disc authoring to start.
- 9. Once the job has finished, the optical disk drive will spin up and begin to start. The disc will begin to start burning.
- 10. Once the disc finishes burning, the disc will be finished and will be ready to eject.
- 11. The authored Blu-Ray disc can be used in any Blu-Ray Player.
 - a. If the disc is a DVD, it will NOT play in a Blu-Ray Player.



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Labelling Authored Discs correctly:

ASSET ID.

PRODUCTION TITLE HERE PRODUCTION TITLE HERE

RUNNING TIME HH:MM:SS:FF

TYPE OF AUTHORING (DATA/AUTHORED)



RESOLUTION

ASPECT RATIO

SOUND MIX

(NO)SUBTITLES

YEAR OF RELEASE

Information Required:

TOP SECTION - Asset ID. + Production Title

MIDDLE LEFT - Running Time in SMPTE (HH:MM:SS:FF) + Type of Authoring

MIDDLE RIGHT - Resolution, Aspect Ratio, Sound Mix, Subtitles Info

BOTTOM SECTION - Year of Release



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