
LK's Best Da Vinci SetUp/Workflow for processing DJI Air 3 footages/shots

1. Shoot in HLG

- The point is to get a lot of data in filmed material in order to correct any errors and produce two great HDR-BT2020:
 1. high bitrate for YouTube processing and HQ archive
 2. standard bitrate for local delivery
- It will allow you to edit a lot of colors and also have a good tolerance in Highlights for correction in post
- YouTube will also take in charge BT2020-to-R709 reduction for non-HDR devices (NOTE: YT HDR processing needs 1/2 days)

2. Create a new Da Vinci Prj with these Color Settings

- Color Science: DaVinci YRGB Color Managed
- Automatic Color Management: NO
- Color Processing Mode: Custom
- Use Separate Color Space and Gamma: YES
- Input Color Space: Rec.2020
- Input Gamma: Rec.2100 HLG (Scene)
- Timeline Color Space: Rec.2020
- Timeline Gamma: Rec.2100 HLG
- Timeline Working Luminance: HDR 1000
- Output Color Space: Rec.2020
- Output Gamma: Rec.2100 HLG
- Limit Output Gamut to: Output Color Space
- Input DRT: Luminance Mapping
- Output DRT: Luminance Mapping
- Use inverse DRT for SDR to HDR conversion: YES
- Use White Point Adaptation: YES
- Use Color Space aware grading tools: YES
- Apply resize transformations in: Linear Mapped
- Disable tone mapping for Fusion conversions: NO
- Graphics White Level: 100 nits
- HDR mastering is for 1000 nits
- Enable Dolby Vision: NO
- Enable HDR10+: NO
- Enable HDR Vivid: YES

3. Color Grading Workspace - HDR Vivid tab (for EACH CLIP!)

- Target Display Output: SDR BT709, Gamma 2.4, 100 nits
- Trim Mode: Curve Mode
- Analyze: All
- Enable Tone Mapping Preview: YES

4. Color Correction - Grading

- Curves-Custom: tune black/white points
(target: Waveform between 128 and 896)
- Primaries Color: Adjust Saturation
- Primaries Color: Adjust Temp/Tint
- Primaries Log: Adjust Shadow
- Primaries Log: Adjust Midtone
- Primaries Log: Adjust Highlights
- Primaries Color: Adjust Lift (to adjust black points)
- Primaries Color: Adjust Gain (overall brightness)
- Primaries Color: Adjust Gamma (brightness)
- Primaries Color: Adjust Contrast and Mid/Detail
- Primaries Color: Boost Color
- Add/Drift Color/Tone Mood

4. Export in BT.2020 HDR-Vivid

- Format: mp4
- Codec: H.265
- Encoder: Auto
- ...
- Encoding Profile: Main10
- Rate Control: Variable Bitrate
- Bitrate: 223000 (HQ and YT) or 80000 (SQ for home/local delivery)
- ...
- Advanced Settings:
 - Color Space Tag: Same as Project
 - Gamma Tag: Same as Project
 - ...
 - Tone Mapping: HDR Vivid
 - HDR BT2020, Gamma HLG, 1000 nits

5. Export in REC709

- Format: mp4
- Codec: H.265
- Encoder: Auto
- ...
- Encoding Profile: Main10 (HQ) or Main (SQ)
- Rate Control: Variable Bitrate
- Bitrate: 80000 (SQ and SQ)
- ...
- Advanced Settings:
 - Color Space Tag: REC709
 - Gamma Tag: Gamma 2.4
 - ...
 - Tone Mapping: HDR Vivid
 - SDR BT709, Gamma 2.4, 100 nits