COMPARISON REPORT

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Omega Productions

Patterns HDR10.mp4 vs. Patterns HLG.mp4 vs. Patterns DoVi.mp4

FILES	PROPERTIES COMPARED	DIFFERENCES	BYTES
3	110	25	Different



Patterns HDR10.mp4

CONTAINER	MPEG-4
DURATION	1m 12s
SIZE	100.8 MB
PICTURE	3,840 × 2,160 · 24 fps · D…
VIDEO	HEVC
AUDIO	5.1 surround Dolby Digital…



Patterns HLG.mp4

CONTAINER	MPEG-4
DURATION	1m 12s
SIZE	101.1 MB
PICTURE	3,840 × 2,160 · 24 fps · D…
VIDEO	HEVC
AUDIO	5.1 surround Dolby Digital…



Patterns DoVi.mp4

CONTAINER	MPEG-4
DURATION	1m 12s
SIZE	97.4 MB
PICTURE	3,840 × 2,160 · 24 fps · D…
VIDEO	HEVC
AUDIO	5.1 surround Dolby Digital…

CONTAINER

PROPERTY	PATTERNS HDR10.MP4	PATTERNS HLG.MP4	PATTERNS DOVI.MP4
Overall bit rate	11.24 Mb/s	11.28 Mb/s	10.87 Mb/s

AUDIO

PROPERTY	PATTERNS HDR10.MP4	PATTERNS HLG.MP4	PATTERNS DOVI.MP4
Samples count	3,439,104	3,439,104	3,440,640
Frame count	2,239	2,239	2,240

VIDEO

PROPERTY	PATTERNS HDR10.MP4	PATTERNS HLG.MP4	PATTERNS DOVI.MP4
HDR format	Dolby Vision / SMPTE ST 2086	Dolby Vision	Dolby Vision
Codec ID	hvc1	hvc1	dvh1
Bit rate	10.47 Mb/s	10.51 Mb/s	10.1 Mb/s
Transfer characteristics	PQ	HLG	PQ

PROPERTY	PATTERNS HDR10.MP4	PATTERNS HLG.MP4	PATTERNS DOVI.MP4
Matrix coefficients	BT.2020 non-constant	BT.2020 non-constant	IPT-PQ-C2
Writing library	HEVC Coding	HEVC Coding	DOVI Coding
HDR Format Commercial	HDR10 / HDR10	HLG	Dolby Vision
HDR Format Profile	dvhe.08	dvhe.08	dvhe.05
HDR Format Compatibility	HDR10 / HDR10	HLG	—
Bits/(Pixel*Frame)	0.053	0.053	0.051
Color range	Limited	Limited	Full
Colour primaries Source	Stream	Stream	Container
Transfer characteristics Source	Stream	Stream	Container
Matrix coefficients Source	Stream	Stream	Container
Mastering display color primaries	Display P3	—	—
Mastering Display Color Primaries Source	Stream	—	—
Mastering display luminance	min: 0.0050 cd/m2, max: 4000 cd/m2	—	—
Mastering Display Luminance Source	Stream	—	—
Compression mode	—	—	Lossy
Colour primaries Original Source	—	—	Stream
Transfer characteristics Original Source	—	—	Stream
Matrix coefficients Original Source	—	—	Stream

MEASUREMENTS

MEASUREMENT	PATTERNS HDR10.MP4	PATTERNS HLG.MP4	PATTERNS DOVI.MP4
Integrated loudness	-23.4 LUFS	-23.4 LUFS	-23.4 LUFS
True peak	-10.8 dBTP	-10.8 dBTP	-10.8 dBTP
Loudness range	10.6 LU	10.6 LU	10.6 LU
MaxCLL (measured)	10,000 nits	1,000 nits	10,000 nits
MaxFALL (measured)	155 nits	254 nits	173 nits