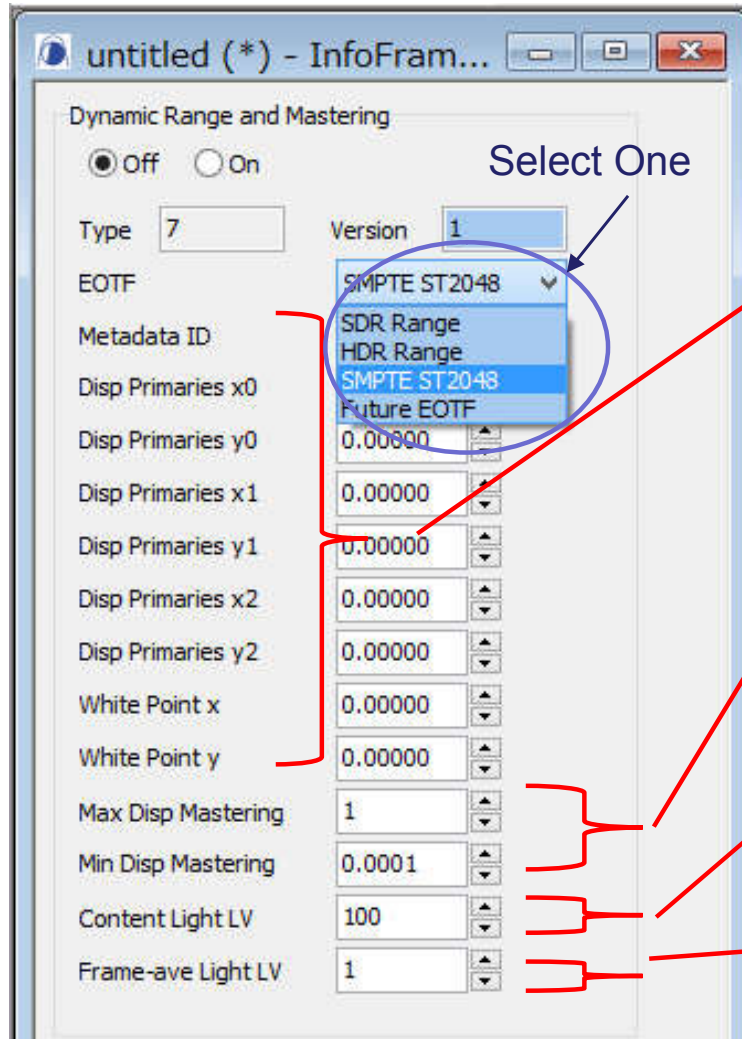


依據下列規範:
"CEA-861.3" and "SMPTE ST 2086".

HDR (High Dynamic Range)

Dynamic Range and Mastering InfoFrame



Note1) 有些顯示器或電視需要設定此一數值才能啟動HDR的功能, 並不是只要設定 EOTF 選項即可

Setting value
0: unknown
1: minimum

顯示器的 xyz 值(色域圖上 RGB 的三點)以及白色的色座標值

Max Disp Mastering
顯示器的白色最大輝度值 (例如 500nit, 就輸入 500)
Min Disp Mastering
顯示器的最小黑色輝度值

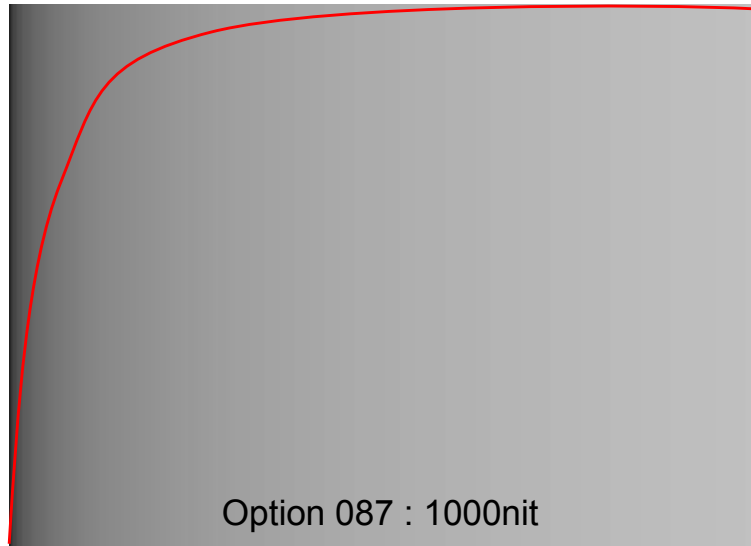
Content Light LV = MAX CLL
"影片內容" 的最大亮度值

Frame-ave Light LV = MAX Fall
在一個畫面中, 最大亮度的平均值

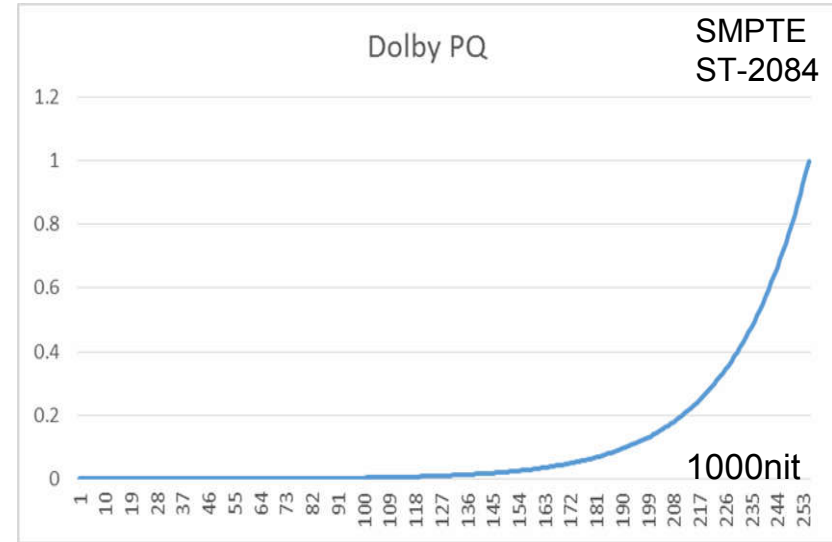
Note2) Dynamic Range InfoFrame 應該要依據欲播放的 "影片內容" 來設定各項數值 (content based setting)

HDR

VG-876 HDR 測器 Patterns -1



HDR OETF



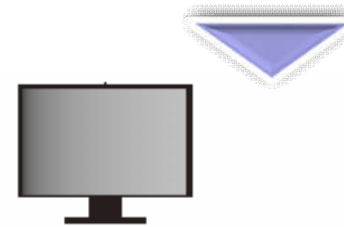
HDR EOTF

Reverse Gamma

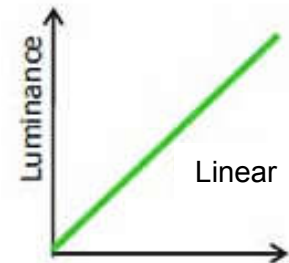
ULTRAHD
Blu-ray

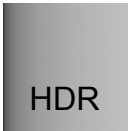


Source Device (VG-876, BD)



Sink Device (TV, Monitor)





VG-876 HDR測色Patterns - 1

HDR RAMP Pattern:

Opt No.	Candela
85	100
86	500
87	1000
88	4000
89	10000

EOTF select
SDR Range
HDR Range (manual setting)
SMPTE ST-2048



Option 085

100nit



Option 086

500nit



Option 087

1000nit



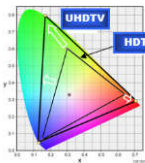
Option 088

4000nit



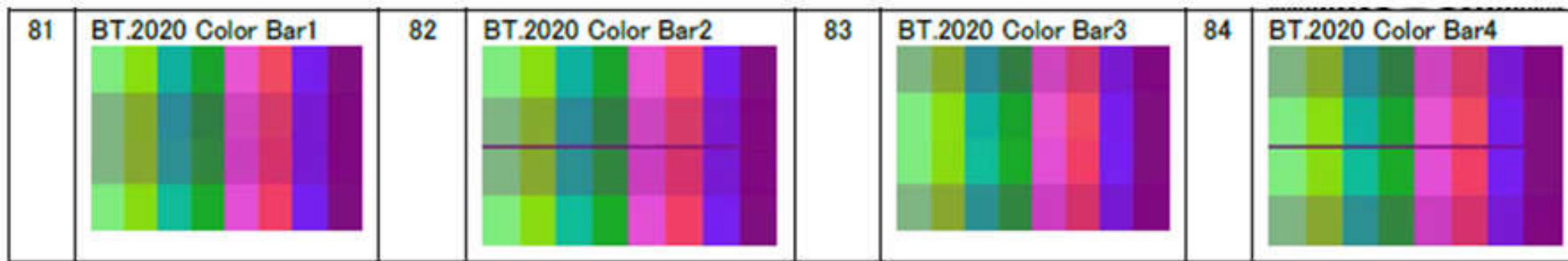
Option 089

10000nit



BT.2020 color bar 測試 Pattern

Image Opt – Opt Sample



No81: from top (1) BT.2020 100% (2) BT.2020 75%, (3) REC.709 75%, (4) Rec.709 100%

No.82: Black line inserted between above (2) and (3).

No.83: from top (1) BT.2020 75%, (2) BT.2020 100%, (3) REC.709 100%, (4) Rec.709 75%

No.84: Black line inserted between above (2) and (3).

Supports Y'C'bC'r / 10, 12-bit / 4:2:0(max.60p), 4:2:2, 4:4:4 (max.30p)

*Only InfoFrame for Y'cC'bcC'rc

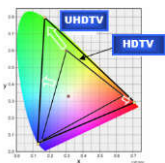
VG setting: AVI InfoFrame

Colorimetr v	Extended Valid
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Extended Color	BT. 2020
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如何測試?

在 AVI InfoFrame 設定成 BT.2020, 時, Rec.709 的部份將不會正常顯示; 但人眼可能法輕易判別, 建議使用色彩分析儀來量測進行判別; 例如 [KLEIN K10-A](#)



8K BT.2020 測試用自然圖片

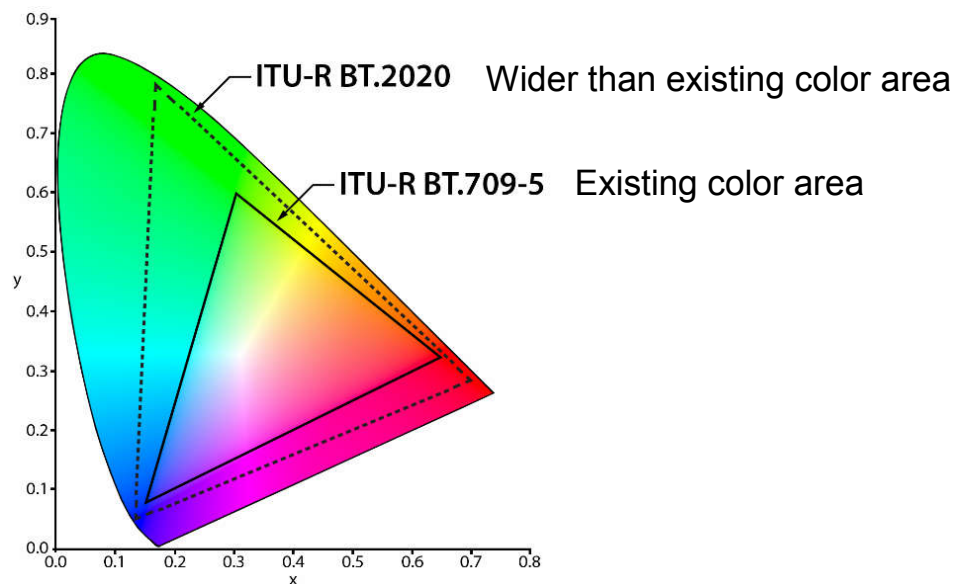
VG-876 可選購 ITE 協會的標準 BT.2020 測試圖片

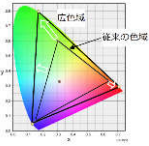
ITE (Institute of Image Information and Television Engineers)

Ultra-high definition/wide-color-gamut standard test images

- No. 1 Books
- No. 2 Music Box
- No. 3 Moss
- No. 4 Kimono
- No. 5 Stained Glass
- No. 6 Butterflies
- No. 7 Chroma Key
- No. 8 Sea
- No. 9 Flowers
- No.10 Ship

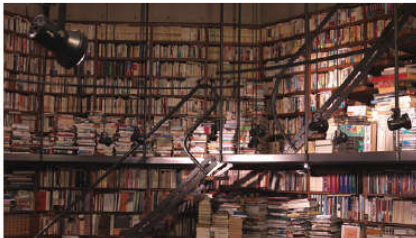
Resolution	Color Format
8K, 4K	ITU-R BT.2020 (12-bit)
2K	ITU-R BT.709 (10-bit)





2K/4K/8K BT.2020 測試用自然圖片

VG-876 可選購 ITE 協會的標準 BT.2020 測試圖片



No.1 Books



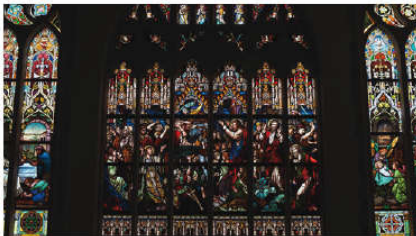
No.2 MusicBox



No.3 Moss



No.4 Kimono



No.5 StainedGlass



No.6 Butterflies



No.7 ChromaKey



No.8 Sea

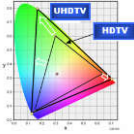


No.9 Flowers



No.10 Ship

共可支援下列三種解析度：
 7620x3840 (12-bit)
 3840x1920 (12-bit)
 1920x1080 (10-bit / BT.709)



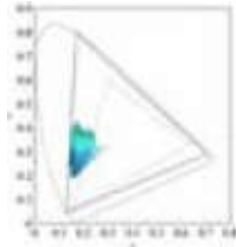
8K BT.2020 測試用自然圖片

VG-876 可選購 ITE 協會的標準 BT.2020 測試圖片

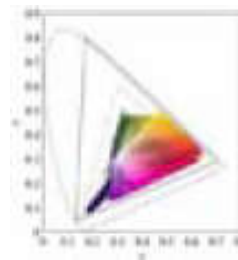
一些圖例 含色域圖



No.8 Sea



No.9 Flowers



No.6 Butterflies

