HDR Settings for UHD 4K60FPS HDR Encoder

1. Encoder settings:

1.1 Select H.265 & Main 10 Profile

HDR IP Encoder	HD Encoder System Platform 4.97	
	Mainstream enco	oding settings
Main stream		
Encoding type	e: H.265 ▼	
FPS	5: 60	[5-60]
GOI	P: 60	[5-300]
Bitrate (kbit)	0: 8000	[32-100000]
Encoded size	a: same as the input ▼	
H.265 Profile	e: main 10 profile ▼	

1.2 System-Advanced

- a) Select the EDID with HDR.
- b) Gamut: BT2020
- c) Dynamic Range: HDR

Advanced	
EDID:	6.3840x2160@60_HDR_SAMSUNG_U32H85x •
Gamut:	BT2020 V
Dynamic Range:	HDR •

Note: Please select the BT709&SDR if input video not HDR.

2.1 Select the HDR output and 10bit if you can.

a) For Apple TV

1080p HDR 50Hz	
1080p SDR 50Hz	
4K HDR 60Hz	
4K SDR 60Hz	
1080p HDR 60Hz	
1080p SDR 60Hz	

b) For PC, enable the HDR, read here,

https://support.microsoft.com/en-us/help/4040263/windows-10-hdr-advanced-color-settings

← Settings		_		×
ଜ Windows HD	Color settings	©Howtoconr	nect	
Display capabilities				^
Play HDR games and apps	No			1
Use WCG apps	No			1
HDR and WCG				1
Off				
Stream HDR video				
Off				
This display can't play HDR video at this time. Make sure that HDR				
and WCG games and apps is turned on.				\sim

- 3. Test the 4K HDR Video Streaming
 - 3.1 For VLC, default settings support the HDR playback.

3.2 For PotPlayer, see below settings or install the HDR plugin.

Open File(s) Open Broadcast Album/Favorites Close Playback	F3			
Playback Subtitles	▶	Video Renderer	•	
Video	•	Pixel Shader	S Þ	✓ Use Pre-Resize Pixel Shaders Shift+P
Audio	►	3D Video Mode	J►	Pre-Resize Pixel Shaders
Filters	►	Video Transform Filter	►	✓ Use Post-Besize Pixel Shaders Ctrl+Alt+P
Skins	•	Resize	►	Post-Resize Pixel Shaders
Misc	•	Deinterlacing	►	Apply only to video image (ignores spaces)
Frame Size	►	Extend/Crop	►	Reload Divel Shader list
Aspect Ratio	►	Bottom Margin	►	Open Pixel Shader folder
Window Size	►	Video Effects	►	
 Fullscreen (Keep AR) 	Enter	Screen Rotation	►	Enable Display ICC Color Gamut Correction
Fullscreen (Stretch)	Ctrl+Enter	Video Capture	К 🕨	Enable YCgCo Colorspace Correction
Preferences	F5	Video Recording	►	Enable SMPTE ST 2084 HDR EOTF Correction
Playlist	F6	AviSynth	►	Enable SMPTE ST 2086 HDR EOTF Correction
Control Panel	F7	VapourSynth	►	
Playback/System Info	Ctrl+F1	360° Video Mode	►	
About	F1	Disable/Last used Color Controls	Q	
Exit	Alt+F4	Decrease Brightness by 1%	W	

3.3 Check the play back video codec,

🗄 Video # 1

- ID : 481 (0x1E1) Menu ID : 1 (0x1)
- --- Format : HEVC
- --- Format/Info : High Efficiency Video Coding
- --- Commercial name : HDR10
- --- Format profile : Main 10@L4.1@Main
- Codec ID : 36
- --- Duration : 10 s 133 ms
- --- Width : 1 920 pixels
- ---- Height : 1 080 pixels
- --- Display aspect ratio : 16:9
- --- Frame rate : 60.000 FPS
- --- Color space : YUV
- --- Chroma subsampling : 4:2:0
- Bit depth : 10 bits
- Color range : Limited
- ---- Color primaries : BT.2020
- --- Transfer characteristics : PQ
- ---- Matrix coefficients : BT.2020 non-constant
- ---- Mastering display color primaries : BT.2020