



Guaranteed Bandwidth

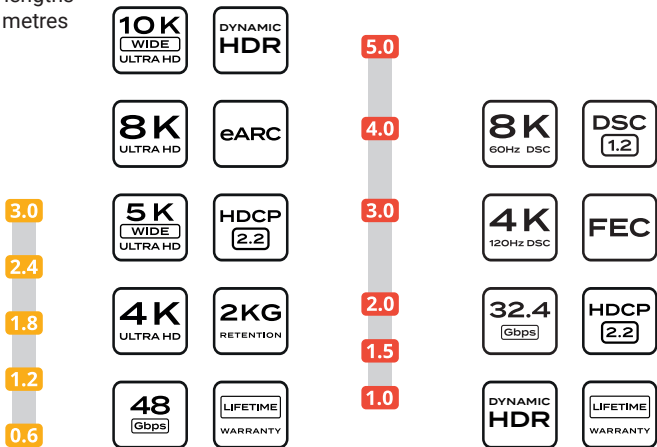
32.4 Gbps

48.0 Gbps

kordz®
Connectivity. Assured

Cable Guide

All lengths in metres



Bravo HDMI®

PRO DisplayPort®

HDMI 2.1 supports legacy TMDS mode and introduces Fixed Rate Link (FRL) mode which uses 3 Lanes operating at 3 or 6Gbps (max 18Gbps) or 4 Lanes at 6, 8, 10 or 12 Gbps (max 48Gbps). Bandwidth and optional DSC compression allow for a wide range of 4K, 5K Wide, 8K and 10K Wide resolutions, 8,10 & 12bit colour depths and frame rates up to 120fps. New Category 3 HDMI cables will be required to support all 2.1 features.

DisplayPort 1.4 uses the transmission mode HBR3 (32.4 Gbit/s) as introduced in version 1.3 and is still the highest available mode. DisplayPort 1.4 adds support for 4K, 5K & 8K resolutions with frame rates up to 240fps, Display Stream Compression 1.2 (DSC), Forward Error Correction, 8, 10 & 12 bit colour space including static and dynamic HDR. It also includes Rec.2020 colour space for HDMI interoperability. Audio capabilities extend to a maximum number of 32 audio channels.



8K Bandwidth Guide



HDMI [®] Resolution		Frame Rate	Color depth (bits)	Chroma Subsampling	Speed	Data Rate (Gbps)		
HDMI 2.1 - 2018-2019	4K	3840 x 2160p	60	HDR10	4:4:4/RGB	Ultra	20.05	
				HDR12			24.06	
			100/120	8, HDR10 or 12	4:2:0/4:2:2	32.08		
		8-bit			4:4:4/RGB	32.08		
		HDR10		40.10				
		HDR12	48.11					
	5K	5120 x 2160p	48/60	8, HDR10 or 12	4:2:0/4:2:2	Ultra	20.05	
					8-bit		25.06	
				HDR10	30.07			
			100/120	8, HDR10 or 12	4:2:0/4:2:2	Ultra	40.10	
					8-bit		40.10	
				HDR10	Ultra + DSC	50.12		
		HDR12	60.14					
		8K	7680 x 4320p	24/30	HDR10 or 12	4:2:0/4:2:2	Ultra	32.08
						HDR10		40.10
					HDR12	48.11		
				48/60	HDR10 or 12	4:2:0	Ultra	40.10
						HDR10		48.11
HDR12	64.15							
100/120	HDR10 or 12		4:2:0/4:2:2	Ultra + DSC	80.19			
			HDR10		96.23			
	HDR12		128.30					
10K	10240 x 4320p		24/30	HDR10 or 12	4:2:0/4:2:2	Ultra	40.10	
					HDR10		50.12	
				HDR12	60.10			
		48/60	HDR10 or 12	4:2:0/4:2:2	Ultra + DSC	80.19		
				HDR10		100.24		
			HDR12	120.29				
	100/120	HDR10 or 12	4:2:0	Ultra + DSC	100.24			
			HDR10		120.29			
		HDR12	120.29					
	DisplayPort [®] Resolution	Frame Rate	Color depth (bits)	Chroma Subsampling	DSC 1.2 ^[1]	Data Rate (Gbps)		
	DisplayPort 1.4 - 2018-2019	4K	3840 x 2160	8-bit	4:4:4/RGB	No	7.73	
						No	15.68	
No						19.74		
No						32.28		
DSC or 4:2:2						39.19 or 26.16		
DSC or 4:2:0						68.55 or 30.92		
5K		5120 x 2880	8-bit	4:4:4/RGB	No	13.68		
					No	27.73		
					DSC or 4:2:0	57.08 or 27.36		
					DSC	69.30		
					4:2:2	DSC + 4:2:2	80.91	
					8K	7680 x 4320	8-bit	4:4:4/RGB
DSC or 4:2:0		62.06 or 30.60						
4:2:2		DSC + 4:2:2	85.28					
4:2:0		DSC + 4:2:0	77.56					

[1] - Display Stream Compression (DSC1.2) is a VESA-developed low-latency compression algorithm to overcome the limitations posed by sending high-resolution video over physical media of limited bandwidth. It is a visually lossless low-latency algorithm based on delta PCM coding and YCoCg-R colour space; it allows increased resolutions and colour depths and reduced power consumption.