

DDC-F01U

The IDK DDC-F01U is an EDID emulator that supports resolutions up to 4K@60 and is HDCP 2.2 compliant. The EDID can be selected from the built-in EDID list, connected sink device's EDID, copied EDID of sink device, and customized EDID. The cable equalization for input and CDR (Clock Data Recovery which repairs input signal deteriorated by the transmission line) enable long-haul video transmission.

■ Specification

		DDC-F01U
Video/Audio input	HDMI	1 input HDMI/DVI 1.0 TMDS single link, HDCP 1.4/2.2 TMDS clock: Up to 300 MHz, TMDS data rate: Up to 18 Gbps Deep Color/ x.v.Color/3D/HDR ¹ 640x480@60 to 3840x1600@60 Reduced Blanking 480p, 576p to 3840x2160@24/25/30/50/59.94/60 (4:4:4), 3840x2160@50/59.94/60 (4:2:0), 4096x2160@24/25/30/50/59.94/60 (4:4:4), 4096x2160@50/59.94/60 (4:2:0) Color depth: 24/30/36 bits *For all supported video signals, see the table below. LPCM: Up to 8 channels Sampling frequency: 32/44.1/48/88.2/96/176.4/192 kHz CEC Connector: HDMI Type A (19-pin) Maximum distances ² : 98 ft. (30 m) (1080p@60), 39 ft. (12 m) (4K@60)
	HDMI	1 input HDMI/DVI 1.0 TMDS single link, HDCP 1.4/2.2 TMDS clock: Up to 300 MHz, TMDS data rate: Up to 18 Gbps Deep Color/ x.v.Color/3D/HDR ¹ 640x480@60 to 3840x1600@60 Reduced Blanking 480p, 576p to 3840x2160@24/25/30/50/59.94/60 (4:4:4), 3840x2160@50/59.94/60 (4:2:0), 4096x2160@24/25/30/50/59.94/60 (4:4:4), 4096x2160@50/59.94/60 (4:2:0) Color depth: 24/30/36 bits *For all supported video signals, see the table below. LPCM: Up to 8 channels Sampling frequency: 32/44.1/48/88.2/96/176.4/192 kHz CEC Connector: HDMI Type A (19-pin) Maximum distances ² : 66 ft. (20 m) (1080p@60), 39 ft. (12 m) (4K@60)
Control I/F	CONFIG	1 port/Connector: USB Type-C
Functions		CEC through, EDID emulation, Audio input enabling/disabling ³ , HDCP input enabling/disabling, Cable equalization (Input/Output), Connection reset pass through ⁴
General	Power	DC 5 V 0.3 A AC adapter: AC 100 V - 240 V ±10%, 50 Hz/60 Hz ±3 Hz, DC 5 V 2 A 10.0 W
	Power consumption	2 W
	Dimensions	3.5 (W) × 0.9 (H) × 2.8 (D)" (88 (W) ×23 (H) ×70 (D) mm) (Excluding connectors and the like)
	Weight	0.4 lgs. (0.2 kg)
	Temperature	Operating: 32°F to 104°F (0°C to +40°C), Storage: -4°F to +176°F (-20°C to +80°C)
	Humidity	20% to 90% (Non Condensing)

¹ ARC/HEC are not supported.

² The maximum specified distances may not be achievable with some device combinations, cabling method, or other manufacturer's cable. For the same reasons, video signal disturbances or interruptions may occur, even if signals are within the specified distance (cable length) parameters.

The maximum cable length varies depending on the connected devices. The specifications have been qualified under following conditions:

- HDMI (1080p@60) : When IDK's 24 AWG cable was used and signal of 1080p@60 24 bits was transmitted.
- HDMI (4K@60) : When IDK's 18 Gbps supported cable was used and signal of 3840x2160@60 24 bits was transmitted.

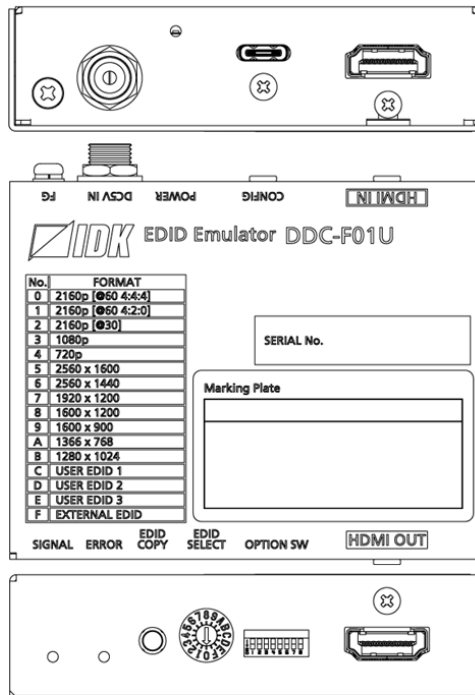
³ Only supported for internal EDID (No.0 to No.B).

⁴ For digital systems, some problems, such as an HDCP authentication error, can often be recovered by physically disconnecting and reconnecting the digital cables. The Connection Reset feature will fix these problems automatically without the need to physically plug and unplug the cables. The DDC-F01U passes through the Connection Reset function. If other devices are connected between the DDC-F01U and the sink device, this feature may be invalid.

■ Built-in EDID

No.	Resolution	Remarks
0	2160p [@60 4:4:4]	
1	2160p [@60 4:2:0]	YCbCr 4:2:0 supported
2	2160p [@30]	
3	1080p	
4	720p	
5	2560 x 1600	
6	2560 x 1440	
7	1920 x 1200	
8	1600 x 1200	
9	1600 x 900	
A	1366 x 768	50Hz not supported
B	1280 x 1024	
C	USER EDID 1	Registering customized EDID/Copying sink device EDID
D	USER EDID 2	Registering customized EDID/Copying sink device EDID
E	USER EDID 3	Registering customized EDID/Copying sink device EDID
F	EXTERNAL EDID	Getting sink device EDID

■ Front & Rear Panels



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DDC-F01U Supported video signals

信号 Signal	解像度 Resolution	フレーム レート Frame Rate [Hz]	ドット クロック Pixel Clock [MHz]	色深度 Color Depth [bits]	INPUT		OUTPUT	
					HDMI		HDMI	
640x480@60	640x480	59.94	25.18	24/30/36	○		○	
800x600@60	800x600	60.32	40.00	24/30/36	○		○	
1024x768@60	1024x768	60.00	65.00	24/30/36	○		○	
1280x768@60	1280x768	59.87	79.50	24/30/36	○		○	
1280x800@60	1280x800	59.81	83.50	24/30/36	○		○	
1280x960@60	1280x960	60.00	108.00	24/30/36	○		○	
1280x1024@60	1280x1024	60.02	108.00	24/30/36	○		○	
1360x768@60	1360x768	60.02	85.50	24/30/36	○		○	
1366x768@60	1366x768	59.79	85.50	24/30/36	○		○	
1400x1050@60	1400x1050	59.98	121.75	24/30/36	○		○	
1440x900@60	1440x900	59.89	106.50	24/30/36	○		○	
1600x900@60	1600x900	59.95	118.25	24/30/36	○		○	
1600x1200@60	1600x1200	60.00	162.00	24/30/36	○		○	
1680x1050@60	1680x1050	59.95	146.25	24/30/36	○		○	
1920x1080@60 RB	1920x1080	59.93	138.50	24/30/36	○		○	
1920x1200@60 RB	1920x1200	59.95	154.00	24/30/36	○		○	
2048x1152@60 RB	2048x1152	60.00	162.00	24/30/36	○		○	
2560x1080@60 RB	2560x1080	60.00	198.00	24/30/36	○		○	
2560x1440@60 RB	2560x1440	59.95	241.50	24/30/36	○		○	
2560x1600@60 RB	2560x1600	59.97	268.50	24/30/36	○		○	
3440x1440@60 RB	3440x1440	59.97	319.75	24/30/36	○		○	
3840x1600@60 RB	3840x1600	59.99	395.00	24/30/36	○		○	
480i	720x480	59.94	27.00	24/30/36	○		○	
480p	720x480	59.94	27.00	24/30/36	○		○	
576i	720x576	50.00	27.00	24/30/36	○		○	
576p	720x576	50.00	27.00	24/30/36	○		○	
720p@50	1280x720	50.00	74.25	24/30/36	○		○	
720p@59.94	1280x720	59.94	74.18	24/30/36	○		○	
720p@60	1280x720	60.00	74.25	24/30/36	○		○	
1080i@50	1920x1080	25.00	74.25	24/30/36	○		○	
1080i@59.94	1920x1080	29.97	74.18	24/30/36	○		○	
1080i@60	1920x1080	30.00	74.25	24/30/36	○		○	
1080p@50	1920x1080	50.00	148.50	24/30/36	○		○	
1080p@59.94	1920x1080	59.94	148.35	24/30/36	○		○	
1080p@60	1920x1080	60.00	148.50	24/30/36	○		○	
3840x2160@23.98	3840x2160	23.98	296.70	24/30/36	○		○	
3840x2160@24	3840x2160	24.00	297.00	24/30/36	○		○	
3840x2160@25	3840x2160	25.00	297.00	24/30/36	○		○	
3840x2160@29.97	3840x2160	29.97	296.70	24/30/36	○		○	
3840x2160@30	3840x2160	30.00	297.00	24/30/36	○		○	
3840x2160@50	3840x2160	50.00	594.00	24/30/36*	○		○	
3840x2160@59.94	3840x2160	59.94	593.41	24/30/36*	○		○	
3840x2160@60	3840x2160	60.00	594.00	24/30/36*	○		○	
4096x2160@23.98	4096x2160	23.98	296.70	24/30/36	○		○	
4096x2160@24	4096x2160	24.00	297.00	24/30/36	○		○	
4096x2160@25	4096x2160	25.00	297.00	24/30/36	○		○	
4096x2160@29.97	4096x2160	29.97	296.70	24/30/36	○		○	
4096x2160@30	4096x2160	30.00	297.00	24/30/36	○		○	
4096x2160@50	4096x2160	50.00	594.00	24/30/36*	○		○	
4096x2160@59.94	4096x2160	59.94	593.41	24/30/36*	○		○	
4096x2160@60	4096x2160	60.00	594.00	24/30/36*	○		○	

RB: Reduced Blanking

*For RGB/YCbCr 4:4:4, only 24 bit is supported.

For best results, please confirm that the source device(s) video output can be configured to match the listed formats above. For questions regarding other input video signals, please contact your IDK representative.