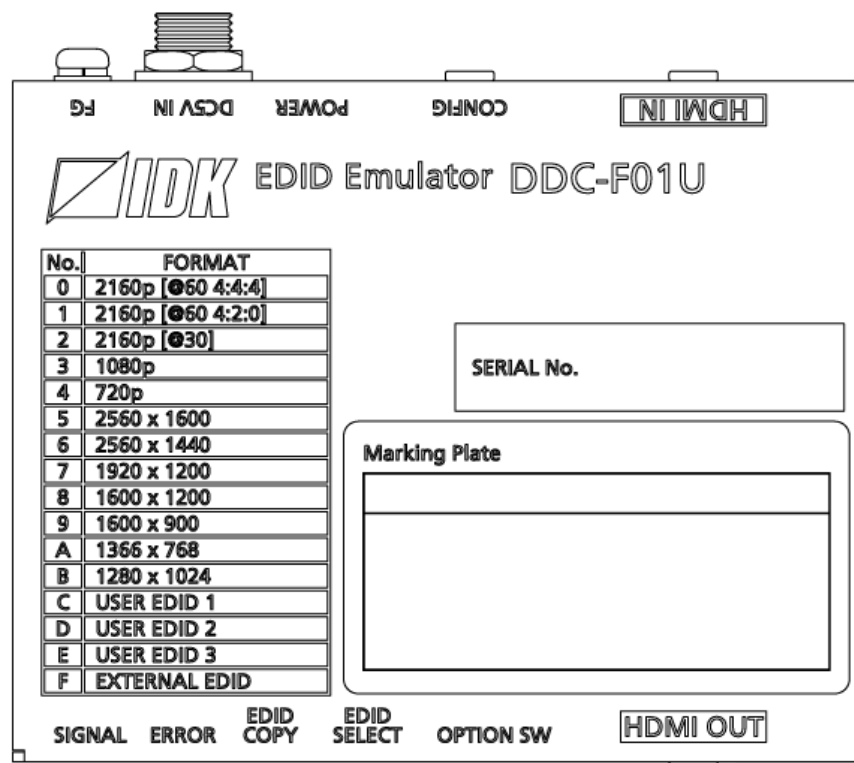


HDMI EDID Emulator/Cable Equalizer

DDC-F01U

User Guide

Ver.1.0.0



Thank you for choosing our product.

Please thoroughly familiarize yourself with this guide before installing this equipment. We recommend keeping this manual together with the equipment for future reference as needed.

- All rights reserved.
- Some information contained in this guide such as exact product appearance, communication commands, and so on may differ depending on the product version.
- This guide is subject to change without notice. You can download the latest version from IDK's website at: www.idkav.com

About technical documentation

■ Please read the following guides before connecting this equipment to a power source.

1. Safety Instructions Contains important safety instructions for the product to help ensure your own personal safety and protect the product and working environment from potential damage.	Provided with the product.
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■ Please refer to the following guides as needed.

2. Operation Guide Describes how to configure and use the equipment.	Download from www.idkav.com
3. User Guide Contains detailed explanation of functions, setting values, and restrictions.	

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FCC STATEMENT

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

(Class A)

Supplier's Declaration of Conformity
47 CFR § 2.1077 Compliance Information

Unique Identifier

Type of Equipment: HDMI EDID Emulator/Cable Equalizer

Model Name: DDC-F01U

Responsible Party – U.S. Contact Information

Company Name: IDK America Inc.

Address: 72 Grays Bridge Road Suite 1-C, Brookfield, CT 06804

Telephone number: +1-203-204-2445

URL: www.idkav.com**FCC Compliance Statement**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

(FCC SDoC)

CE MARKING

This equipment complies with the essential requirements of the relevant European health, safety and environmental protection legislation.

WEEE MARKING

Waste Electrical and Electronic Equipment (WEEE), Directive 2002/96/EC

(This directive is only valid in the EU.)



This equipment complies with the WEEE Directive (2002/96/EC) marking requirement.







The left marking indicates that you must not discard this electrical/electronic equipment in domestic household waste.

Safety Instructions

Read all safety and operating instructions before using this product. Follow instructions and heed warnings/cautions.


Instructions and warnings/cautions for all products are provided. Some of them may not be applicable to your product.

	Warning	Indicates the presence of a hazard that may result in death or serious personal injury if the warning is ignored or the product is handled incorrectly.
	Caution	Indicates the presence of a hazard that may cause minor personal injury or property damage if the caution is ignored or the product is handled incorrectly.


Symbol	Description	Example
 Caution	This symbol is intended to alert the user. (Warning and caution)	 Hot surfaces Caution
 Prohibited	This symbol is intended to prohibit the user from specified actions.	 Do not disassemble
 Instruction	This symbol is intended to instruct the user.	 Unplug

Warning


For lifting heavy products:

 Instruction	<ul style="list-style-type: none"> • Lifting must be done by two or more personnel. <p>To avoid injury: When lifting the product, bend your knees, keep your back straight and get close to it with two or more persons.</p>
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For installing and connecting products:

 Prohibited	<ul style="list-style-type: none"> • Do not place the product in unstable place. <p>Install the product in a horizontal and stable place, as this may fall or tip over and cause injury.</p> <ul style="list-style-type: none"> • Secure the product if installing in the locations with vibration. <p>Vibration may move or tip over the product unexpectedly, resulting in injury.</p>
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Warning

 Instruction	<ul style="list-style-type: none"> • Installation work must be performed by professionals. The product is intended to be installed by skilled technicians. For installation, please contact a system integrator or IDK. Improper installation may lead to the risk of fire, electric shock, injury, or property damage. • Insert the power plug into an outlet that is unobstructed. Unobstructed access to the plug enables unplugging the product in case of any extraordinary failure, abnormal situation or for easy disconnection during extended periods of non-use. • Insert the power plug into an appropriate outlet completely. If the plug is partially inserted, arcing may cause the connection to overheat, increasing the risk of electric shock or fire. Do not use a damaged plug or connect to a loose outlet. • Unplug the product from an AC power source during installation or service. When connecting peripheral devices to this product, unplug all involved devices from outlets. Ground potential differences may cause fire or other difficulties. • The product must be electrically earthed/grounded. To reduce the risk of electric shock, ensure the product is connected to a mains socket outlet with a protective earthing connection. • For PoE/PoH, use category cables meeting IEEE802.3af/at. Otherwise, it may cause problems or a fire.
---	--

For operating products:

 Prohibited	<ul style="list-style-type: none"> • Keep out any foreign objects. To avoid fire or electric shock, do not permit foreign objects, such as metal and paper, to enter the product from vent holes or other apertures. • For power cable/plug and Category cable, <ul style="list-style-type: none"> • Do not scratch, heat, or modify, including splicing or lengthening them. • Do not pull, place heavy objects on them, or pinch them. • Do not bend, twist, tie or clamp them together forcefully. <p>Misuse of the power cable and plug may cause fire or electric shock. If power cables/plugs become damaged, contact your IDK representative.</p>
 Do not disassemble	<ul style="list-style-type: none"> • Do not repair, modify or disassemble. Since the product includes circuitry that uses potentially lethal, high voltage levels, disassembly by unauthorized personnel may lead to the risk of fire or electric shock. For internal inspection or repair, contact your IDK representative.
 Do not touch	<ul style="list-style-type: none"> • Do not touch the product and connected cables during electric storms. Contact may cause electric shock.
 Instruction	<ul style="list-style-type: none"> • Clean the power plug regularly. If the plug is covered in dust, it may increase the risk of fire.




If the following problem occurs:

 Unplug	<ul style="list-style-type: none"> • Unplug immediately if the product smokes, makes unusual noise, or produces a burning odor. • Unplug immediately if the product is damaged by falling or having been dropped. • Unplug immediately if water or other objects are directed inside. <p>If you continue to use the product under these conditions, it may increase the risk of electric shock or fire. For maintenance and repair, contact your IDK representative.</p>
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Caution

For installing and connecting products:

 Prohibited	<ul style="list-style-type: none"> • Do not place the product in a location where it will be subjected to high temperatures. If the product is subjected to direct sunlight or high temperatures while under operation, it may affect the product's performance and reliability and may increase the risk of fire. • Do not store or operate the product in dusty, oil smoke filled, or humid place. Placing the product in such environment may increase the risk of fire or electric shock. • Do not block the vent holes. If ventilation slots are blocked, it may cause the product to overheat, affecting performance and reliability and may increase the risk of fire. • Do not place or stack heavy items on the product. Failure to observe this precaution may result in damage to the product itself as well as other property and may lead to the risk of personal injury. • Do not exceed ratings of outlet and wiring devices. Exceeding the rating of an outlet may increase the risk of fire and electric shock.
 No wet hands	<ul style="list-style-type: none"> • Do not handle power plug with wet hands. Failure to observe this precaution may increase the risk of electric shock.
 Instruction	<ul style="list-style-type: none"> • Use and store the product within the specified temperature/humidity range. If the product is used outside the specified range of temperature and humidity continuously, it may increase the risk of fire or electric shock. • Do not place the product at elevations of 1.24 mi. (2,000 m) or higher above sea level. Failure to do so may shorten the life of the internal parts and result in malfunctions. • When mounting the product into the rack, provide sufficient cooling space. Mount the product in a rack meeting EIA standards, and maintain spaces above and below for air circulation. For your safety as required, attach an L-shaped bracket in addition to the panel mount bracket kit to improve mechanical stability. • Never insert screws without the rubber feet into the threaded holes on the bottom of the product. Never insert screws alone into the threaded holes on the bottom of the product. Doing so may lead to damage when the screws contact electric circuitry or components inside the product. Reinstall the originally supplied rubber feet using the originally supplied screws only.

For operating products:

 Hot surfaces Caution	<p>For products with the hot surfaces caution label only:</p> <ul style="list-style-type: none"> • Do not touch the product's hot surface. <p>If the product is installed without enough space, it may cause malfunction of other products. If you touch product's hot surface, it may cause burns.</p>
 Prohibited	<ul style="list-style-type: none"> • Use only the supplied power cable and AC adapter. • Do not use the supplied power cable and AC adapter with other products. <p>If non-compliant adapter or power cables are used, it may increase the risk of fire or electric shock.</p>
 Unplug	<ul style="list-style-type: none"> • If the product won't be used for an extended period of time, unplug it. <p>Failure to observe this precaution may increase the risk of fire.</p> <ul style="list-style-type: none"> • Unplug the product before cleaning. <p>To prevent electric shock.</p>
 Instruction	<ul style="list-style-type: none"> • Do not prevent heat release. <p>If cooling fan stops, power off the product and contact IDK. Failure to do so may raise internal temperature and increase the risk of malfunction, fire, or electric shock.</p> <ul style="list-style-type: none"> • Keep vents clear of dust. <p>If the vent holes near the cooling fan or near the fan are covered with dust, internal temperatures increase and may increase the risk of malfunction. Clean the vent holes and near the fan as needed. If dust accumulates inside of the product, it may increase the risk of fire or electric shock. Periodic internal cleaning, especially before humid rainy season, is recommended. For internal cleaning, contact your IDK representative.</p>

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About this Guide

This guide describes features, notes, and configurations of the DDC-F01.

Conventions

- The following symbols are used in this guide.
 - [] : Menus and messages displayed on the front display and a WEB GUI.
 - “ ” : Reference
- The following notification is used in this guide.
 - Note** : Addresses practices not related to personal injury, such as restrictions and attention.

About this Product

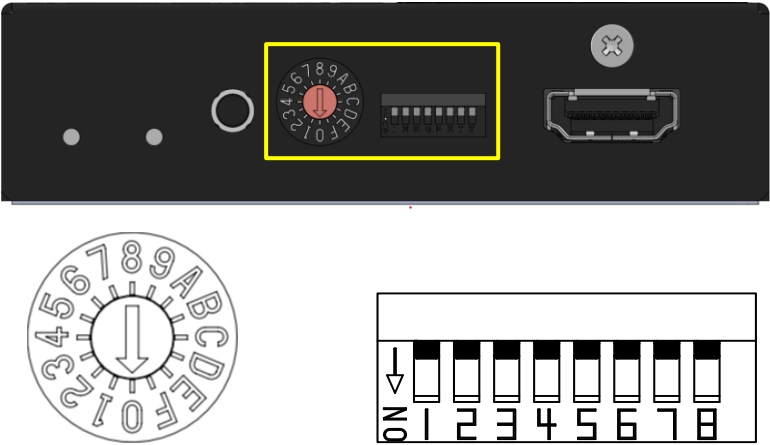
The IDK DDC- F01U is an EDID emulator that supports resolutions up to 4K@60 and is HDCP 2.2 compliant.

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.

Setting

Settings can be configured using the rotary switch or DIP switch.



The table below is used in this chapter.

Setting	Setting name	
Parameter	Target to be set	
Value	Setting value	Default value is shaded.

Setting items

	No.	Item	Page
Rotary switch	-	EDID selection	12
DIP switch	1	Input equalizer	14
	2		
	3	Output equalizer	14
	4	Audio input	14
	5	HDCP input authentication	15
	6	Hot plug output for when there is no active video input signal	16
	7	Frame rate	17
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Rotary switch

EDID can be changed using the rotary switch.

EDID selection

A source device that is connected to an input connector obtains information of supported video and audio signals from the EDID. You can change the information to be sent to a source device.

Item	EDID selection	
For	HDMI IN	
Value	Rotary switch	
	0	2160p@60 4:4:4
	1	2160p@60 4:2:0
	2	2160p@30
	3	1080p
	4	720p
	5	2560x1600
	6	2560x1440
	7	1920x1200
	8	1600x1200
	9	1600x900
	A	1366x768
	B	1280x1024
	C	USER EDID 1 Default: 2560x1080
	D	USER EDID 2 Default: 3440x1440
	E	USER EDID 3 Default: 3840x1600
	F	EXTERNAL EDID Default: 2160p@60 4:4:4

Internal EDID (0 to B) : The internal EDID of the DDC-F
 (Color depth: 24 bits, audio: 2-channel LPCM 48kHz)
【音声入力の許可/禁止 (P.13)】
【フレームレート (P.15)】

USER EDID (C to E) : EDID that is copied from a sink device or configured via EDID Configuration Tool.
Tip For details, refer to the Operation Guide.

EXTERNAL EDID (F) : EDID of the sink device connected to the output connector.
Tip For details, refer to the Operation Guide.

If internal EDID (0 to B) is selected, the following resolutions are supported.

Value \ Resolution	640x480	800x600	1024x768	1280x720	1280x768	1280x800	1280x960	1280x1024	1360x768	1366x768	1400x1050	1440x900	1600x900	1600x1200	1680x1050	1920x1080	1920x1200	2048x1152	2560x1440	2560x1600	3840x2160 (30Hz)	4096x2160 (30Hz)	3840x2160 (60Hz)	4096x2160 (60Hz)
2160p@60 4:4:4	Y	Y	Y	x	x	x	x	Y	x	x	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
2160p@60 4:2:0	Y	Y	Y	x	x	x	x	Y	x	x	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	△	△
2160p@30	Y	Y	Y	x	x	x	x	Y	x	x	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	x	x
1080p	Y	Y	Y	x	x	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	x	x	x	x	x	x	x	x
720p	Y	Y	x	Y	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
2560x1600 (WQXGA)	Y	Y	Y	x	x	x	x	Y	x	x	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	x	x	x	x
2560x1440 (WQHD)	Y	Y	Y	x	x	x	x	Y	x	x	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	x	x	x	x
1920x1200 (WUXGA)	Y	Y	Y	x	x	Y	Y	Y	x	x	Y	Y	Y	Y	Y	Y	Y	x	x	x	x	x	x	x
1600x1200 (UXGA)	Y	Y	Y	Y	x	Y	Y	Y	Y	Y	Y	Y	Y	Y	x	x	x	x	x	x	x	x	x	x
1600x900 (WXGA++)	Y	Y	Y	Y	x	Y	Y	Y	Y	Y	Y	Y	Y	x	x	x	x	x	x	x	x	x	x	x
1366x768 (WXGA)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	x	x	x	x	x	x	x	x	x	x	x	x	x	x
1280x1024 (SXGA)	Y	Y	Y	Y	Y	Y	Y	Y	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

Y: Supported, P: Only YCbCr4:2:0, N: Not supported

Timing of [2160p]/[1080p]/[720p] meets the CTA-861 standard.

For other resolutions, timing parameters meet the VESA DMT or VESA CVT standard.

DIP switch

Sliding the DIP switch upwards: [OFF]

Sliding the DIP switch downwards: [ON]

Input equalizer

Item	Input equalizer		
For	HDMI IN		
Value	DIP switch		
	No.1	No.2	
	OFF	OFF	
	ON	OFF	
	OFF	ON	
	ON	ON	
			AUTO
			OFF
			LOW
			HIGH

[AUTO] : The amount of signal correction is corrected automatically depending on the deterioration of input signal.

Output equalizer

Item	Output equalizer	
For	HDMI OUT	
Value	DIP switch	
	No.3	
	OFF	
	ON	
		OFF
		ON

[OFF] : Disables output equalizer.

[ON] : Enables output equalizer.

Audio input

You can set the audio information for if “**EDID 選択 (P.10)**” is set to an internal EDID (0 to B).

Item	Audio input enable/disable	
For	HDMI IN	
Value	DIP switch	
	No.4	
	OFF	
	ON	
		Support (LPCM 48kHz)
		Not support

[Support] : Sets 2-channel LPCM 48kHz audio information to EDID.

[Not support] : Does not set audio information to EDID.

HDCP input authentication

Item	HDCP input enable/disable	
For	HDMI IN	
Value	DIP switch	
	No.5	
	OFF	
	ON	
		Support
		Not support

[Support] : Enables HDCP authentication of the connected source and sink devices.

[Not support] : Disables HDCP authentication of the connected source and sink devices.

Some source devices negotiate with the connected device to determine if HDCP encryption is supported. After this negotiation, the source device determines whether HDCP signal encryption is enforced or not. This process takes place with some source device, even if the content being presented is not copyright protected. The DDC-F is HDCP compliant, if it is connected to a display device that does not support HDCP, unprotected AV content may not be successfully displayed. Under these circumstances and if the content is indeed not protected, the problem can be solved by setting this menu to [Not support].

Note

If [Not support] is set, video signals may not be input.

Hot plug output for when there is no active input signal

The DDC-F requests the source device to output video signal by sending hot plug when no active video signal is input. You can enable/disable this feature and set the request interval.

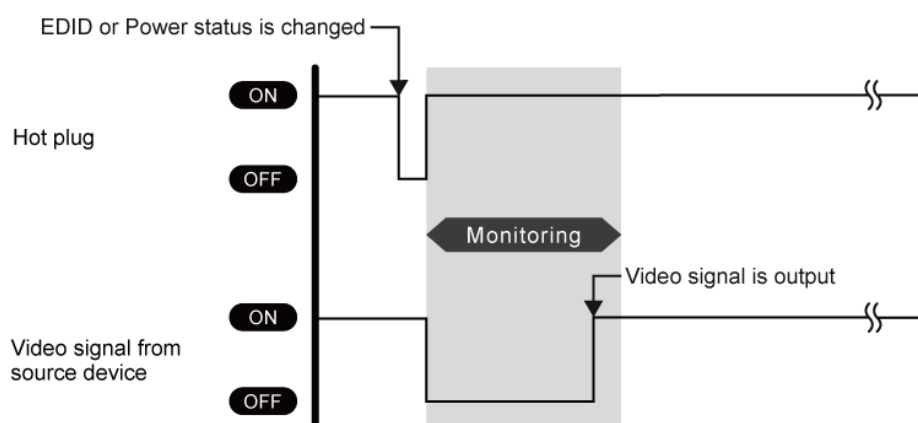
Item	Hot plug output for when there is no active video input signal	
For	HDMI IN	
Value	DIP switch	
	No.6	
	OFF	15s
	ON	OFF

[15s] : Requests the source device to output video signal after 15 seconds if there is no active signal.

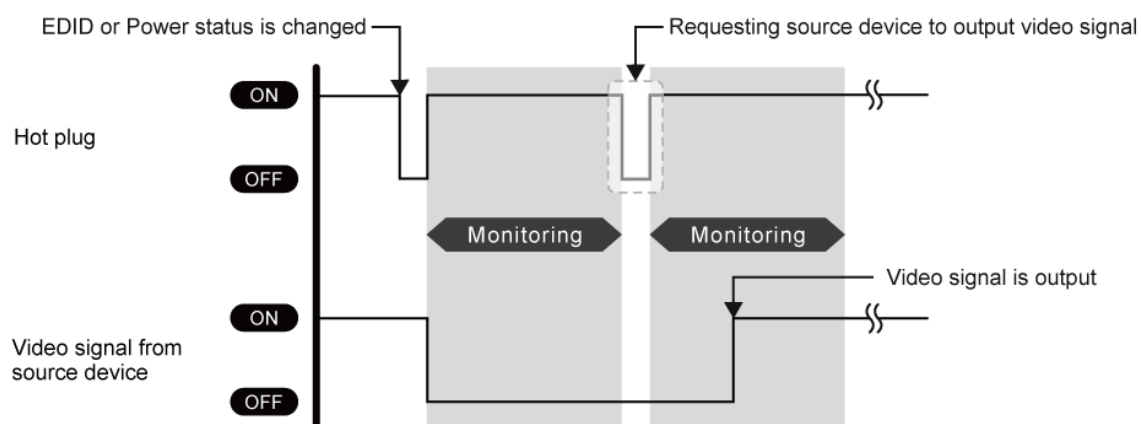
[OFF] : Does not request the source device to output video signal even if there is no active input signal.

If the DDC-F is powered on or EDID is changed with the connected source device is powered on, the source device may stop outputting video signal. In this case, use this feature to request the source device to output video signal.

■ Example: Video signal is output within the specified monitoring time



■ Example: The source device stops outputting video signals → Hot plug request is needed.



Note

If the source device, such as a PC, disables the monitor power-saving or dual monitor features, set this setting to [OFF].

Frame rate

You can set the vertical synchronous frequency (frame rate) of the DDC-F for if “**EDID 選択 (P.10)**” is set to an internal EDID (0 to B).

Item	Frame rate	
For	HDMI IN	
Value	DIP Switch	
	No.7	
	OFF	60Hz
	ON	50Hz

[60Hz] : Supports 60 Hz vertical synchronous frequency.

[50Hz] : Supports 50 Hz vertical synchronous frequency.

If selecting [50Hz], 60 Hz and 30 Hz vertical synchronous frequency will be 50 Hz and 25 Hz, respectively.

DDC POWER

DDC5V from the source device can be used for the DDC-F if this setting is set to ON.

Item	DDC POWER	
Value	DIP switch	
	No.8	
	OFF	OFF
	ON	ON

[OFF] : Disables DDC5V power supply.

[ON] : Enables DDC5V power supply.

Notes

- If the DDC-F is powered from the AC adapter or USB cable that is connected to CONFIG, DDC5V is not used as power supply for the DDC-F.
- If DDC5V is used as power supply for the DDC-F, the DDC-F may not operate correctly depending on the source device and other conditions. Make sure the DDC-F operates correctly with this function.

Factory default list

Setting item		Default
EDID	EDID selection	2160p@60 4:4:4
DIP switch	Input equalizer	AUTO
	Output equalizer	OFF
	Audio input enable/disable	Enable (LPCM 48kHz)
	HDCP input enable/disable	Disable
	Hot plug output for when there is no active video input signal	15s
	Frame rate	60Hz
	DDC POWER	OFF

Specification

Product 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.

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.

Troubleshooting

This chapter provides recommendations in case difficulties are encountered during MSD-V6 setup and operation.

In case the DDC-F does not work correctly, please check the following items first.

- Are the DDC-F and all devices connected to an active power source and are they powered on?
- Are signal cables connected correctly?
- Are there any loose or partially mated connections?
- Are the interconnecting cables specified correctly to support adequate bandwidth?
- Are specifications of connected devices matched to each other?
- Are configuration settings for the connected devices correct?
- Is there any nearby equipment that may cause electrical noise/RF interference?

Use the DDC-F built-in status display features to check for input signal presence and format. Also use the status display features to check for the presence of connected sink devices as well as for EDID and HDCP compatibility.

If difficulties persist, please refer to the peripheral device manuals as well, since connected equipment may be the cause of the trouble.

If the trouble persists, please contact us after checking the following items.

- Does the problem occur with all the signal connectors?
- Does the problem occur when you connect the source and display devices directly, bypassing the DDC-F?

HDMI EDID Emulator/Cable Equalizer

DDC-F01U

User Guide



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