HDMI portable checker

GF-100

■Description

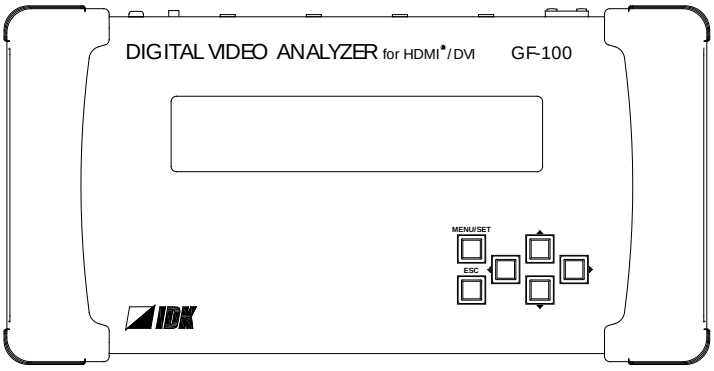
The IDK GF-100 is a handy video analyzer for HDMI/DVI devices. The GF-100 can be used for testing source/sink devices, monitoring DDC between source and sink devices, testing signal transmission, and so on.

■Specification

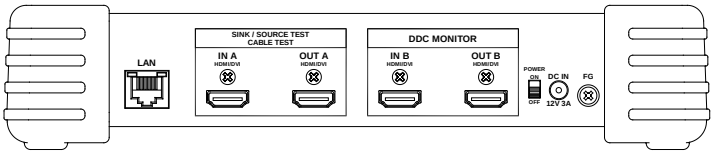
Item				Description
Input (IN A) Testing source device	Video	Digital	Number / Signal	1 input / HDMI Deep Color (*1) / DVI 1.0 (HDCP) - TMDS single link, TMDS clock: 25 MHz to 225 MHz
			Connector	1 female HDMI Type A
			Others	Color Depth: 24 bit, 30 bit, 36 bit
		Format		VESA (PC): Dot clock 25 MHz ~ 165 MHz (VGA ~ QWXGA) *WUXGA/QWXGA are supported only with Reduced Blanking HDTV/SDTV: 480i/480p/576i/576p/720p/1080i/1080p
	Audio	Digital	Number / Signal	1 input / Multi-channel linear PCM up to 8 channels - Sampling frequency: 32 kHz to 192 kHz - Sample size: 16 bit to 24 bit - Reference level:-20 dBFS - Max. input level: 0 dBFS
			Connector	1 female HDMI Type A
Output (OUT A) Analyzing source devices	Video	Digital	Number / Signal	1 input / HDMI Deep Color (*1) / DVI 1.0 (HDCP) - TMDS single link, TMDS clock: 25 MHz to 225 MHz
			Connector	1 female HDMI Type A
			Others	Color Depth: 24 bit, 30 bit, 36 bit
		Format		VESA (PC): Dot clock 25 MHz ~ 165 MHz (VGA ~ QWXGA) *WUXGA/QWXGA are supported only with Reduced Blanking HDTV/SDTV: 480i/480p/576i/576p/720p/1080i/1080p
	Audio	Digital	Number / Signal	1 input / Multi-channel linear PCM up to 8 channels - Sampling frequency: 32 kHz to 192 kHz - Sample size: 16 bit to 24 bit - Reference level:-20 dBFS - Max. input level: 0 dBFS
			Connector	1 female HDMI Type A
I/O (IN B, OUT B) Monitoring DDC		Video Audio	Number / Signal	1 input & 1 output / Pass through (IN B and OUT B connected directly)
			Connector	2 female HDMI Type A
Function		Source analyze		Displaying status of video and audio, EDID emulator
		Sink analyze		Displaying EDID, test pattern output, test tone output
		Monitor DDC		Recording occurrence and recovery of errors, signal input and disconnection
		Transmission test		Testing transmission by pseudo random signal
Others		AC adapter		Input: 100 - 240 VAC ± 10%, 50 Hz/60 Hz ± 3 Hz Output: DC 12V 3A (AC adapter supplied)
		Power consumption		Around 11 Watts
		Dimensions		10.24(W)x5.16(H)x2.11(D)"(approx.) <260(W)x131(H)x53.5(D)mm>
		Weight		1.98 lbs. (approx.) (0.9 kg)
		Temperature		Operating temperature: 32°F to 104°F<0°C to +40°C> Storage temperature: -4°F to +176°F<-20°C to +80°C>
		Humidity		Operating/Storage humidity: 20 % to 90 % (Non Condensing)
		Shipping contents		AC adapter 5.9ft (approx.) <1.8m>

■Front & Rear Panel

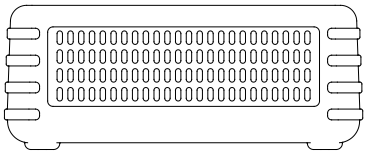
Front panel



Back panel



Side panel



●Specifications subject to can be changed without prior notice. ● An attached power cord is used only for this product. Please do not use it for other uses. ●"HDMI", logotype of "HDMI", and "High-Definition Multimedia Interface" are trademarks or registered trademarks of HDMI Licensing LLC or registered trademarks in the U.S.A and other countries. ●"PJLink" is a trademark registration or an application for trademark registration in JAPAN, the United States, and other countries and regions. ●JBMIA: Japan Business Machine and Information System Industries Association.

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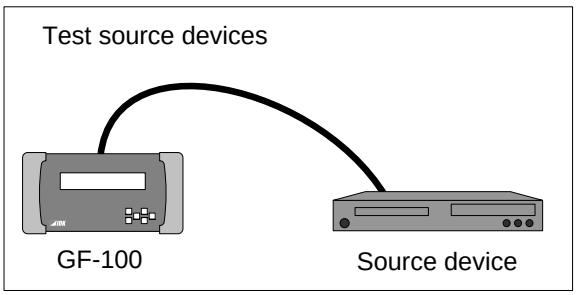
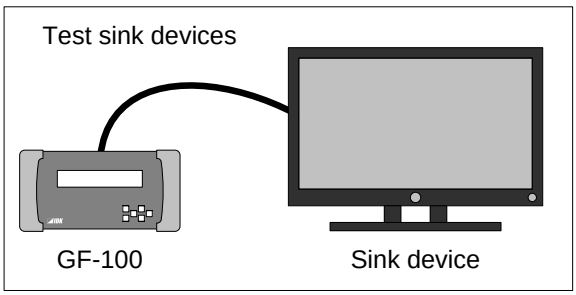
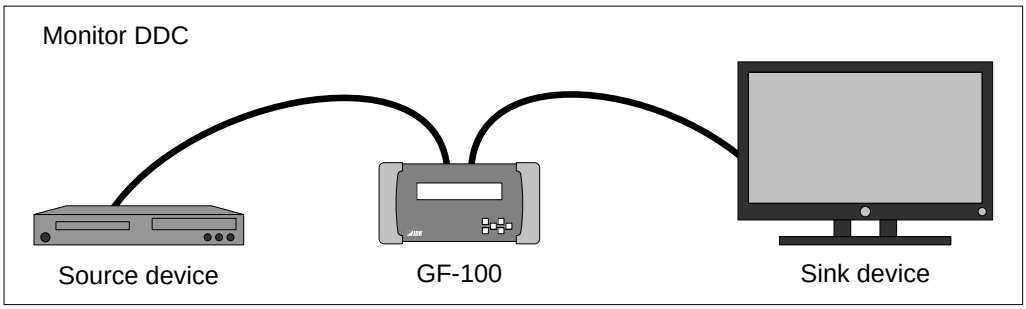
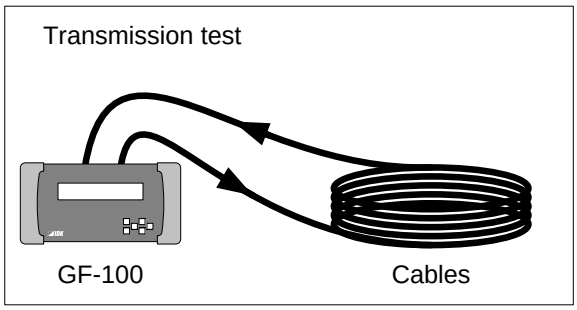
GF-100 Diagram and Features

[Connection diagram]









[Features]

■ **Testing source devices**
- Displaying video status
  - Displaying resolution, frame rate, HDCP status, Deep Color, Color space, aspect ratio, video timing, signal status, info frame information etc.
- Displaying Audio status
  - Displaying audio format, number of channels, sampling frequency, sample bit length, speaker's position, header information, info frame information, etc.
- EDID Emulator
  - -Editing EDID of the GF-100 flexibly to check source operation.
  - -Copying sink device EDID

■ **Testing sink devices (Monitor)**
- Displaying EDID
  - -Loading EDID and displaying specs of sink device including resolution, color space, Deep Color, audio format, speakers etc.
- Output test pattern
  - -Output test patterns such as color bar, gray scale, cross hatch, and stripe (XGA ~ QWXGA, 720p, 1080i, 1080p)
- Output test tone
  - -Outputs test tone and speakers can be tested at each audio channel (1000 Hz, 400Hz, 30Hz, 80Hz)

■ **Monitoring DDC**
- Displaying communication status between source and sink devices regarding EDID or protocols of HDCP.
- Built-in memory can save event logs such as errors and recovery, input and disconnection of signals.

■**Transmission test (Cable)**
- GF-100 sends pseudo random signals and receive it by itself to display transmission quality
  - -Dot clock can be selected between 50 MHz - 225 MHz

■Others
- More detailed status can be displayed by connected to a PC over LAN.