

GF-100



Portable HDMI Checker

IDK's GF-100 Digital Video Analyzer is designed for testing source/sink devices, monitoring DDC between source and sink devices and testing signal transmission on DVI and HDMI capable devices. All resolutions from VGA through QWXGA are supported (WUXGA and QWXGA only with reduced blanking) plus HDTV/SDTV resolutions from 480i through 1080p.

FRONT & REAR PANEL



FEATURES

■ Testing source devices

- Video status display
 - Resolution / Frame rate / Aspect Ratio / HDMI signal status / DVI signal status / HDCP status / Color space / color depth / DDC voltage status / Video timing / Dot clock frequency / Info frame information / etc...
- Audio status display
 - Audio format / number of audio channel / sampling frequency / sample size / speaker position / Info frame information / etc...
- EDID emulation (with copy function)
- Comparing transmitted signal and received signal by test signal
- Source status is output to terminal software
- Status log display and confirmation by web browser

■ Testing sink devices (Monitor)

- Sink device specification display
 - Supported resolution / HDMI signal support or not / HDCP support or not / Color space / color depth / speaker position / EDID information / etc...
- Test pattern output
 - Color bar / gray scale / crosshatch / stripe / raster / etc...
- Test tone output
 - Test audio / speaker test by each audio channel (1000 Hz / 400 Hz / 80 Hz / 40 Hz)
- Comparing transmitted signal and received signal by test signal
- Status display by web browser / EDID information download

■ Monitoring DDC

- DDC communication check and display between source device and sink device
 - Hot Plug voltage / DDC voltage / EDID / HDCP
- Communication log is output to terminal software
- Communication log display and confirmation by web browser

■ Transmission test (Cable)

- Comparing transmitted signal and received signal by test signal

Ver.1.6.0 (181003)

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SPECIFICATIONS

Source test / cable test / transmission test

Item		Description
Video	HDMI / DVI	Number / Signal 1 input / HDMI Deep Color (*1) / DVI 1.0 / HDCP 1.4 - TMDS single link - TMDS clock: 25 MHz to 225 MHz - Dot clock 25 MHz to 165 MHz
		Connector 1 female HDMI Type A
Audio	Digital Audio	Number / Signal 1 input / Multi-channel LPCM 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
Functions		Video status display - Resolution / Frame rate / Aspect Ratio / HDMI signal status / DVI signal status / HDCP status / Color space / color depth / DDC voltage status / Video timing / Dot clock frequency / Info frame information / etc... Audio status display - Audio format / number of audio channel / sampling frequency / sample size / speaker position / Info frame information / etc... EDID emulation (with copy function) Comparing transmitted signal and received signal by test signal Source status is output to terminal software Status log display and confirmation by web browser

Sink test / cable test / transmission test

Item		Description
Video	HDMI / DVI	Number / Signal 1 output / HDMI Deep Color (*1) / DVI 1.0 / HDCP 1.4 - TMDS single link - TMDS clock: 25 MHz to 225 MHz - Dot clock 25 MHz to 165 MHz
		Connector 1 female HDMI Type A
		Test pattern output Format Color space: RGB 4:4:4 / YCbCr 4:2:2 / YCbCr 4:4:4 Color Depth: 24 bit, 30 bit, 36 bit Deep Color Resolution: 480i / 480p / 576i / 576p / 720p / 1080i / 1080p VGA / SVGA / XGA / WXGA (1280x768) / WXGA (1280x800) / Quad-VGA / SXGA / WXGA (1360x768) / WXGA (1366x768) / SXGA+ / WXGA+ / WXGA++ / UXGA / WSXGA+ / WUXGA / QWXGA *WUXGA/QWXGA are output as Reduced Blanking
Audio	Digital Audio	Number / Signal 1 output / Multi-channel LPCM 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
		Test tone output Format 1 output / Multi-channel linear PCM up to 8 channels - Sampling frequency: 48 kHz - Sample size: 24 bit - Reference level: -20 dBFS - Max. input level: 0 dBFS
Functions		Sink device specification display - Supported resolution / HDMI signal support or not / HDCP support or not / Color space / color depth / speaker position / EDID information / etc... Test pattern output - Color bar / gray scale / crosshatch / stripe / raster / etc... Test tone output - Test audio / speaker test by each audio channel (1000 Hz / 400 Hz / 80 Hz / 40 Hz) Comparing transmitted signal and received signal by test signal Status display by web browser / EDID information download

DDC Monitoring

Item	Description
Operation	Pass through
Connector	2 female HDMI Type A
Functions	DDC communication check and display between source device and sink device - Hot Plug voltage / DDC voltage / EDID / HDCP Communication log is output to terminal software Communication log display and confirmation by web browser

LAN

Item	Description
LAN	Number / Signal 1 port / 10Base-T (Auto Negotiation), 100Base-TX (Auto Negotiation), Auto MDI/MDI-X
	Connector 1 RJ-45

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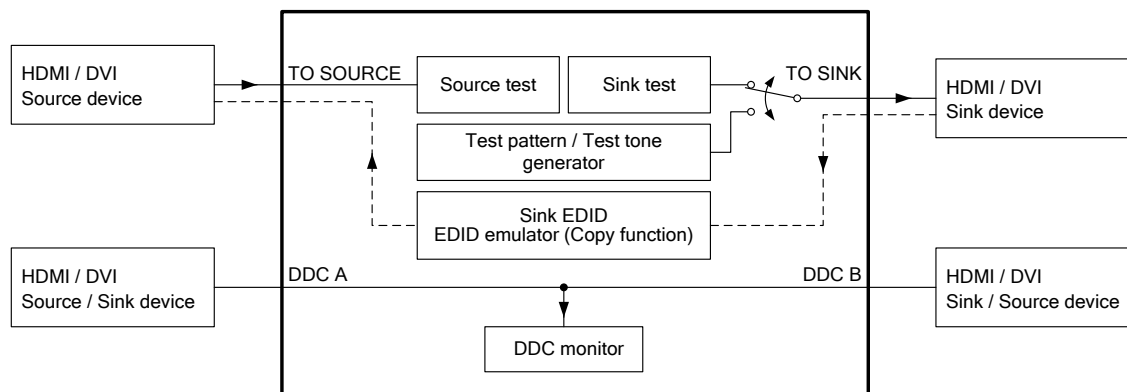
SPECIFICATIONS

Others

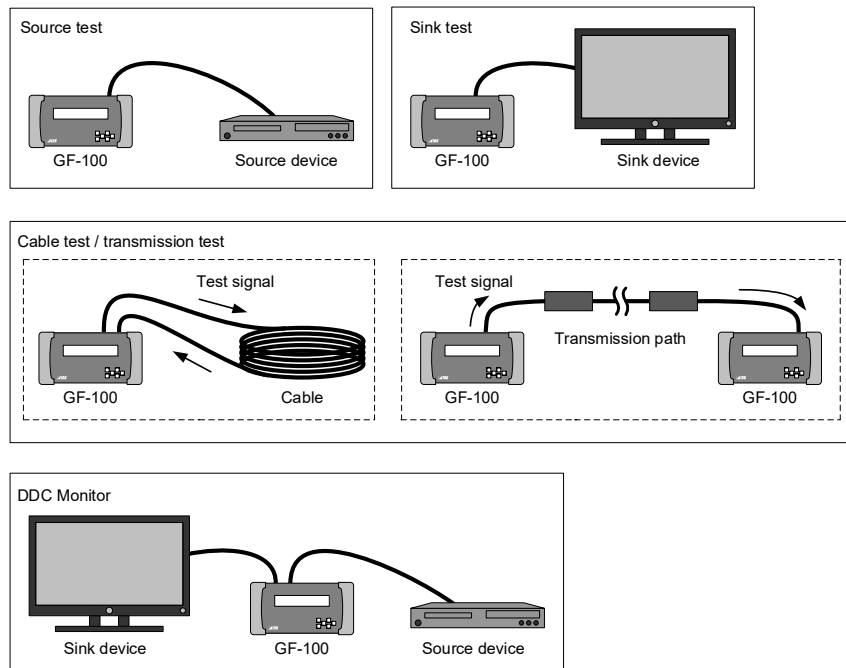
Item	Description
AC adapter	Input: 100 - 240 VAC \pm 10%, 50 Hz / 60 Hz \pm 3 Hz Output: DC 12V 3A (AC adapter supplied)
Power consumption	About 11 Watts
Dimensions	10.2 x 2.1 x 5.2" (260(W) x 53.5(H) x 133(D) mm)
Weight	2 lbs. (0.9 kg)
Temperature	Operating: 32°F to 104°F (0°C to +40°C) Storage: -4°F to +176°F (-20°C to +80°C)
Humidity	Operating/Storage: 20% to 90% (Non Condensing)

*This product supports 36 bits/pixel Deep color (12 bit/component). It does not support x.v.Color, 3D, ARC, HEC and CEC.

DIAGRAM



SAMPLE CONNECTION DIAGRAM



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