

# GF-100

## Portable HDMI Checker

The IDK GF-100 is a portable digital video checker for HDMI/DVI devices, providing source/sink device tests, cable/transmission line tests, and monitoring DDC function between source and sink devices.

### FRONT & REAR PANEL



### FEATURES

#### Source test, cable / transmission line test:

- Monitors the following items:
  - Video Status, such as resolutions, frame rate, aspect ratio, HDMI/DVI, HDCP, color space, color depth, DDC power, video timing, Dot clock frequency, and AVI InfoFrame
  - Audio Status, such as audio format, number of channels, sampling frequency, quantization bit rate, speaker position, and AVI InfoFrame

- EDID emulation
- Compares transmitted and received signals using test signals
- Outputs source status to terminal software
- Monitors statuses/source status histories using Web browser

#### Sink test, cable / transmissions line test Others:

- Monitors sink device status, such as Resolutions, HDMI/DVI, HDCP, Color space, Color depth, Speaker position, EDID
- Test pattern output: Color bar, gray scale, cross hatch, stripes, raster
- Test tone output: Test voice, speaker test for each audio channel (1000 Hz, 400 Hz, 80 Hz, 40 Hz)

- Compares transmitted and received signals using test signals
- Monitors statuses and downloading EDID using Web browser

#### Monitor DDC:

- Monitors DDC communication content between source and sink devices (Hot Plug, DDC power, EDID, HDCP)
- Outputs communication content to terminal software
- Monitors communication history using web browser

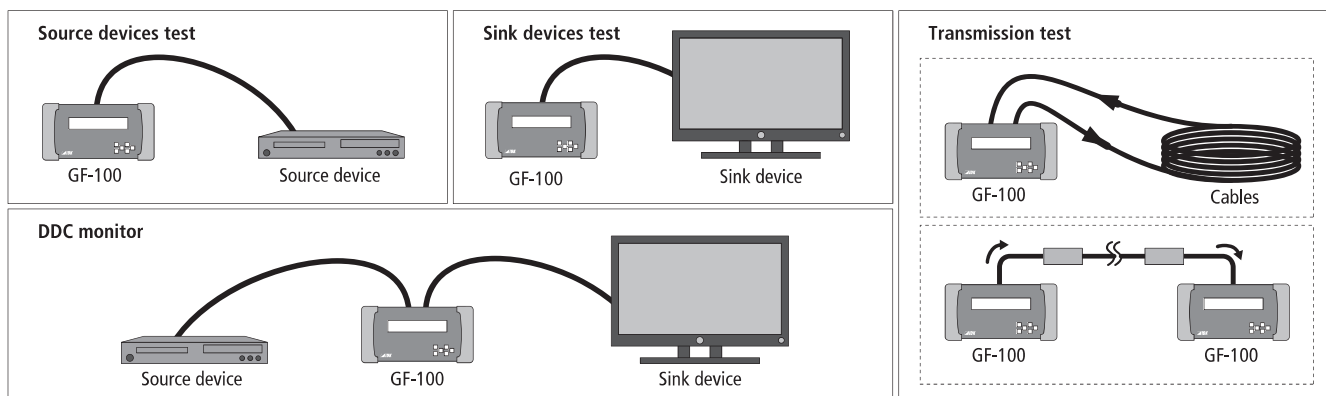
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## CONNECTION DIAGRAM



## SPECIFICATIONS

### Source test, cable / transmission line test

Video	HDMI / DVI	HDMI Deep Color / DVI 1.0 TMDS Single link, HDCP 1.4, TMDS Clock: 25 MHz to 225 MHz EDID Emulation
Audio	Digital Audio	Multi-Channel linear PCM up to 8ch Sampling frequency: 32 kHz to 192 kHz, Sample size: 16 bit to 24 bit. Baseline level: -20 dBFS, Maximum input level: 0 dBFS
Connector		1 HDMI Type A

### Sink test, cable / transmission line test

Video	HDMI / DVI	HDMI Deep Color / DVI 1.0, TMDS Single link, HDCP 1.4, TMDS Clock: 25 MHz to 225 MHz
	Test pattern output format	Color space: RGB / YCbCr 4:2:2 / YCbCr 4:4:4 Deep color: 24 bit, 30 bit, 36 bit Deep Color Resolutions: 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: Reduced Blanking
Audio	Digital Audio	Multi-Channel linear PCM up to 8ch Sampling frequency: 32 kHz to 192 kHz, Sample size: 24 bit, Baseline level: -20 dBFS, Maximum input level: 0 dBFS
	Test tone output format	Multi-Channel linear PCM up to 8ch Sampling frequency: 48 kHz, Sample size: 16 bit to 24 bit, Baseline level: -20 dBFS, Maximum input level: 0 dBFS
Connector		1 HDMI Type A

### DDC Monitoring

DDC communication	Pass through
Connector	1 HDMI Type A

LAN	1Port / RJ-45 10Base-T / 100Base-TX (Auto Negotiation), Auto MDI / MDI-X
AC adapter	Input: AC 100 V - 240 V $\pm$ 10% 50 Hz / 60 Hz $\pm$ 3 Hz, Output: DC 12 V 3 A (AC adapter supplied)
Power consumption	About 11 Watts
Dimensions	10,24(W) $\times$ 2,1(H) $\times$ 5,24(D)" approx. (260(W) $\times$ 53,5(H) $\times$ 133(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)