MURIDEO®

MU-STIX-GF

STIX Test Ecosystem Signal Generator with HDMI Output Port

Murideo's MU-STIX-GF is an ultra-compact HDMI 2.1 test pattern generator designed to meet the evolving needs of professional AV integrators. With its female HDMI connector and enhanced design, this cost-effective, user-friendly tool offers increased flexibility for validating HDMI signal paths and display capabilities.

The STIX-GF supports both cutting-edge HDMI 2.1 (FRL) signals up to 48 Gbps and legacy HDMI (TMDS), making it ideal for a wide range of signal scenarios. It generates video test patterns at resolution timings from 720p/60 Hz up to 8K/30 Hz, including 4K/120 Hz. Equipped with 13 built-in test patterns and 6 preset timing options, the STIX-GF is ready to support even the most demanding HDMI testing environments and workflows. It can also generate 8 channels of PCM audio as 1 kHz tones at sample rates of 48 kHz, 96 kHz, and 192 kHz, providing a reliable way to test multi-channel audio paths.

Compact and power-efficient, the STIX-GF can operate from a USB-A port on an AV receiver or display, or through a USB Type-C connection to a mobile device. With its rugged construction and practical enhancements, the MU-STIX-GF is the perfect tool for accurate HDMI signal generation in the field or lab.

FEATURES:

- HDMI 2.1b, 8K 48 Gbps (FRL) compliant
- Generates 720p, 1080p, 4K and 8K signal timings at 8-, 10-, and 12-bit color depths, in RGB, 4:2:2, and 4:4:4 color spaces
- HDCP encryption selectable at Off, 1.4, and 2.3 (1.4 is TDMS only)
- 13 test patterns, including pseudo-random binary sequence, a diagnostic tool to identify transmission-related issues such as bit errors, signal attenuation, or timing problems.
- Generates 8-Channels of PCM audio as 1 kHz tones at sample rates of 48 kHz, 96 kHz, and 192 kHz

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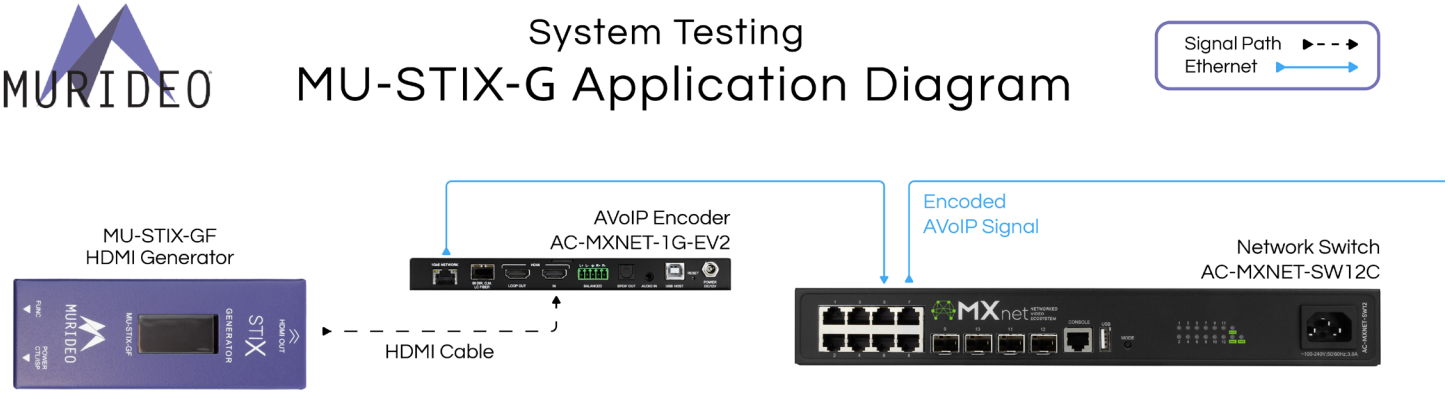
System Testing

MU-STIX-G Application Diagram



PRODUCT SPECIFICATIONS:

VIDEO	
HDMI Version	2.1
HDCP Version	1.4 and 2.3
HDCP ON/OFF	Yes
Resolution Timings	120 Hz - 4K 60 Hz - 4K, 1080p, 720p 30 Hz - 8K, 4K, 1080p
Video Encoding	RGB (Limited), YCbCr
Video Sampling Models	RGB 4:4:4, YUV 4:4:4, YUV 4:2:2
Color Bit Depth	12-, 10-, 8-bit
Patterns	Black, Checkbox, Stripes, Red, Green, Blue, White, White Ramp, Red Ramp, Green Ramp, Blue Ramp, PRBS, Color Bars
AUDIO	
Audio Channels	8-Channel (7.1)
Audio Output	8-Channel LPCM at 1kHz
Sampling Rates	48 kHz, 96 kHz, 192 kHz
PORTS	
HDMI	19-pin Type-A, female
Power/Firmware&Control	USB Type-C
ENVIRONMENTAL	
Operating Temperature	23° to 125°F (-5° to 51°C)
Storage Temperature	-4° to 140°F (-20° to 60°C)
Humidity Range	5% to 90% RH (No Condensation)
Cooling	Passive
POWER	
Power	5 VDC, 270 mA
Power Consumption	1.35 W Maximum
PHYSICAL / DIMENSIONS	
Dimensions	mm: 12 x 32 x 82
(Unit Length/Width/Height)	in: .47 x 1.26 x 3.22
Dimensions	mm: 122 x 91 x 26
(Packaged Length/Width/Height)	in: 4.80 x 3.58 x 1.02
Weight (Unit)	.09 lbs. (0.04 kg)
Weight (Packaged)	.34 lbs. (.15 kg)
*Specifications subject to change without notice. Mass & dimensions are approximate	

BENEFITS:

LEVEL-SWITCH INTERFACE
Enhanced menu access versus the previous button-only interface.

LOW-COST, FLEXIBLE OUTPUT SOURCE
Cost-effective HDMI 2.1b, 8K 48 Gbps (FRL) compliant generator.

ANALYZE SIGNALS UP TO 8K
Generates 720p, 1080p, 4K, and 8K signal timings at 8-bit, 10-bit, and 12-bit color depths, in RGB, 4:2:2, and 4:4:4 color spaces.

CONFIGURABLE HDCP
Options for Off, or versions 1.4 and 2.3 (1.4 is TDMS only).

BUILT-IN TEST PATTERNS
13 built-in test patterns and six preset timing options, including Pseudo-Random Binary Sequence, a diagnostic tool to identify transmission-related issues such as bit errors, signal attenuation, or timing problems.

LOW POWER DRAW
The MU-STIX-GF is powered over USB-A to Type-C (from device accessory ports) or Type-C to Type-C from a mobile device.

OLED COLOR SCREEN
An intuitive navigation menu displays incoming video thumbnail, source timing, FRL or TDMS presence, color space, color depth, and HDCP 1.4/2.X versions.

ULTRA-COMPACT FORM FACTOR
Packaged in a durable, foam-fit, compact protective tin container.