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MU-STIX-G

STIX Test Ecosystem Signal Generator

The MU-STIX-G is a thumb drive-sized HDMI pattern generator designed for Murideo's STIX Ecosystem large-deployment evaluation platform. It may also be used for light-duty in-field pass/fail signal transmission verification. The STIX Ecosystem was conceived as an asymmetric testing methodology for dynamically transmitting, receiving, and logging test sources through 1,152 MXnet endpoint transmitters and receivers. Imagine pursuing this process with hundreds of Blu-ray machines or streaming devices, or the number of video displays... it is simply impossible.

Video test patterns at resolutions from 720p/60 fps through 8K/60 fps, including 4K/120 fps High Frame Rate, may be generated by the MU-STIX-G. When used in stand-alone applications, a mini OLED screen displays the pattern selected, resolution, bit rate, color space, and HDCP version.

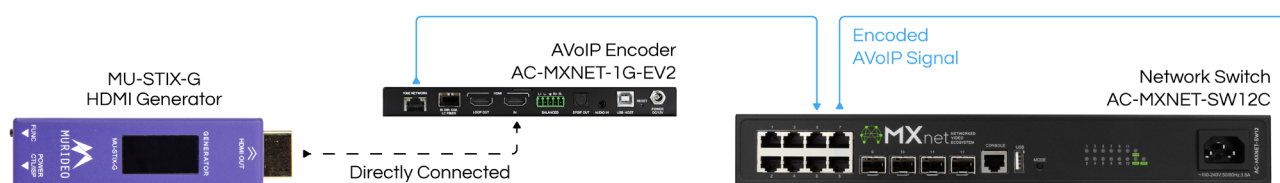
The MU-STIX-G is a convenient, cost-effective multi-resolution format generator for commercial or residential integrators when simple pass-fail transmission path and display capability verification are required.

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, 4:2:0, 4:2:2, and 4:4:4 Color Spaces
- HDCP selectable at Off, 1.4, and 2.3 (1.4 is TDMS only)
- 12 test patterns, including Pseudo-Random Binary Sequence, a diagnostic tool to identify transmission-related issues such as bit errors, signal attenuation, or timing problems.
- The STIX Ecosystem is compatible with any brand of HDMI devices



System Testing MU-STIX-G Application Diagram





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PRODUCT SPECIFICATIONS:

VIDEO	
HDMI Version	HDMI 2.1
HDCP Version	HDCP 2.3 and 1.4
HDCP ON/OFF	Yes
Resolution Timings	720P 60Hz, 1080P 60Hz, 4K 30Hz, 60Hz and 120Hz, 8K 30Hz
Video Encoding	RGB
Video Sampling Models	4:4:4, 4:2:2, 4:2:0
Color Bit Depth	8, 10 and 12
PORTS	
HDMI	Type A
Power, Control and Firmware	USB-C
ENVIRONMENTAL	
Operating Temperature	23 to 125°F (-5 to 51°C)
Storage Temperature	-4 to 140°F (-20 to 60°C)
Humidity Range	5-90% RH (No Condensation)
POWER	
Power (Single Unit)	5v 270uA
DIMENSIONS	
Dimensions (Single Unit Only - Height/Depth/Width)	mm: 12 X 21 X 81.1 inch: 0.47 X 0.82 X 3.2
Weight (Single Unit)	27g / 1oz

BENEFITS:

LOW-COST, FLEXIBLE OUTPUT SOURCE: Match pattern generation with common output timings used by HDMI-based entertainment sources at low cost and with flexible configuration. Toggle through settings instead of switching sources.

SEVEN AVAILABLE SIGNAL TIMINGS: 720p and 1080p @ 60 fps, 4K @ 30 fps, 60 fps, and 120 fps, and 8K 30 fps

SELECTABLE COLOR DEPTH: 8-, 10-, and 12-bit color depth

SELECTABLE COLOR SPACE: RGB, 4:2:0, 4:2:2, and 4:4:4 color space options are available

ULTRA-COMPACT FORM FACTOR: The HDMI headshell-sized footprint enables easy connectivity in tight spaces after racks are built. It can also be conveniently stored with tools or in a computer bag for any time troubleshooting.

INTEGRAL COMPONENT OF THE STIX ECOSYSTEM: The STIX Ecosystem allows for asymmetrical scalability for MU-STIX-G deployment in end-to-end testing scenarios.

