



MU-STIX-A

STIX Test Ecosystem Signal Analyzer

The MU-STIX-A is a thumb drive-sized HDMI pattern analyzer 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 MU-STIX-A analyzes video test patterns at resolutions from 720p/ 60 fps through 8K/ 60 fps, including 4K/120 fps High Frame Rate. When used in stand-alone applications, a mini OLED screen displays the source selected, resolution, bit rate, color space, and FRL version of TDMS.

The STIX Ecosystem enables rapid yet thorough in-house signal throughput confirmation before site deployment to verify that endpoint devices are correctly functioning, appropriately responding to programming, and aligned with system performance parameters. The Murideo MU-STIX-A onboard display physically corroborates source information parameters when connected to the HDMI output of a receiving device.

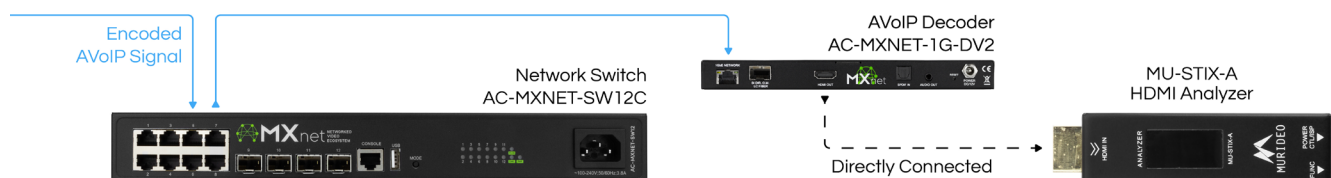
The MU-STIX-A is a convenient, cost-effective multi-resolution format analyzer for commercial or residential integrators when simple pass-fail transmission path and display capability verification are required. Equipped with one or more MU-STIX-As enables system signal throughput confirmation for display supporting electronics that are installed inside cable and device management in-wall storage enclosures, eliminating potential duplicate labor before the display is mounted.

FEATURES:

- HDMI 2.1b, 8K 48 Gbps (FRL) compliant
- Accepts 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
- Detects signal changes, sync losses, and logs loss time
- OLED screen displays incoming video image, source timing, FRL version or TDMS, color space, color depth, and HDCP version
- Displays audio information, including incoming sampling frequency, bit rate size, and audio type
- The STIX Ecosystem is compatible with any brand of HDMI devices



System Testing MU-STIX-A Application Diagram





MURIDEO®

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
SIGNAL MONITOR	
Audio (2ch L-PCM) Signal Change Signal Loss Connection Time	
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: .47 X .82 X 3.2
Weight (Single Unit)	27g. 1oz

BENEFITS:

LOW-COST, FLEXIBLE ANALYZER: Verify common output timings used by HDMI-based entertainment sources at low cost. Sources can be MU-STIX-G generated or in-field from installation source devices. Additional signal-related information is also captured and displayed on the MU-STIX-A OLED screen, or when a part of the STIX Ecosystem, virtually on the MU-STIX-CTL GUI.

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

DISPLAYS ADDITIONAL SOURCE INFORMATION: 8-, 10-, and 12-bit color depth is detected and displayed, along with RGB, 4:2:0, 4:2:2, and 4:4:4 color spaces.

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.

