MU-STIX-AF

STIX Test Ecosystem Signal Analyzer with HDMI Input Port

Murideo's MU-STIX-AF is a next-generation, ultra-compact HDMI 2.1 signal analyzer, purpose-built for today's professional AV installers and integrators. With its female HDMI connector and enhanced control interface, the STIX-AF expands the versatility and usability of the STIX platform for a wide range of HDMI signal verification tasks.

The STIX-AF supports both cutting-edge HDMI 2.1 (FRL) signals up to 48 Gbps and legacy HDMI (TMDS), making it ideal for analyzing modern and legacy signal paths. It can analyze video signals up to 8K/60 Hz and 4K/120 Hz. The onboard OLED screen and new level-switch interface offer an intuitive navigation experience, displaying a real-time thumbnail of the source signal, along with detailed video and audio parameters including resolution, timing, color space, audio type, sampling rate, and more.

Designed for maximum flexibility in the field, the MU-STIX-AF features low power consumption and is USB Type-C powered, enabling operation from mobile devices, displays, or AV receivers. Rugged, reliable, and enhanced for usability, the MU-STIX-AF is an essential tool for professional-grade HDMI signal diagnostics.
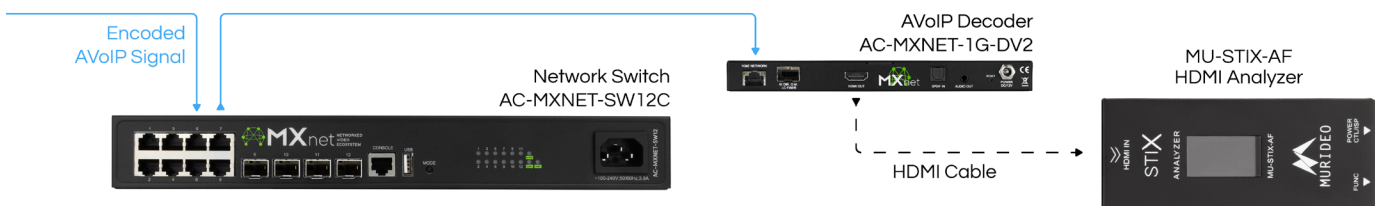
FEATURES:

- 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
- 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
- STIX is compatible with any brand of HDMI devices

System Testing
MU-STIX-A Application Diagram

Signal Path ▶ - - ▶
Ethernet ▶——▶

Encoded AVoIP Signal

Network Switch
AC-MXNET-SW12C

AVoIP Decoder
AC-MXNET-1G-DV2

MU-STIX-AF
HDMI Analyzer

HDMI Cable

PRODUCT SPECIFICATIONS:

VIDEO	
HDMI Version	2.1
HDCP Version	1.4 and 2.3
HDCP ON/OFF	No
Maximum Clock Rate	600 mscs (1188 MHz)
Maximum Throughput per Channel	12 Gbps (48 Gbps Total)
Resolution Timings	HDMI VICs up to 8K/30 Hz, DCI up to 4K/60 Hz, VESA DMT, VESA CVT-RB up to 600 MHz
Video Encoding	RGB, YCbCr
Video Sampling Models	RGB 4:4:4, YUV 4:4:4, YUV 4:2:2, YUV 4:2:0
Color Bit Depth	12-, 10-, 8-bit
AUDIO (DIAGNOSTIC ONLY)	
Audio Type	LPCM
Audio Sampling Rate	32 kHz, 44.1 kHz, 48 kHz, 88 kHz, 96 kHz, 176 kHz, 192 kHz
Audio Channels	Up to 8-Channel
Audio Volume	No
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	5-90% RH (No Condensation)
Cooling	Passive
POWER	
Power	5 V 540 mA
Power Consumption	2.7 W Maximum
PHYSICAL / DIMENSIONS	
Dimensions (Unit Length/Width/Height)	mm: 12 x 32 x 82 inches: .47 x 1.26 x 3.22
Dimensions (Packaged Length/Width/Height)	mm: 122 x 91 x 26 inches: 4.80 x 3.58 x 1.02
Weight (Unit)	0.09 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 signal analyzer.

ANALYZE SIGNALS UP TO 8K
Analyzes 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.

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.