# MURIDEO®

# THE SIX-G-8K GENERATOR

Everyone's favorite HDMI test device received an 8K overhaul. The 8K SIX-G from Murideo is beyond a test pattern generator, it is the essential tool for anyone working with HDMI.

The Murideo 8K SIX-G is an HDMI pattern generator intended for the AV integration market to confirm HDMI 2.0(b) and HDCP 2.2 operation at the 40 Gbps level. Additionally, the SIX-G is an excellent field troubleshooting tool for distributed high bandwidth HDMI systems and a reference source for video calibration. This device can create a signal that allows it to act as any modern HDMI source.
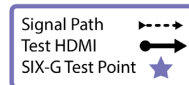
The handheld device is portable thanks to a built-in battery and can generate over 100 different test patterns for setup, calibration and troubleshooting. There's a three-inch color display with simplified menus as well as free PC control software. The 8K SIX-G also features Hot Plug Detect, EDID read/write functionality and the ability to create custom resolutions. There's the option for either RS232 or USB control and support for CalMAN and Light Illusion calibration software. The 8K SIX-G is the only unit to carry the complete suite of ISF test patterns, select-able color output level, RGB Triplets and Constant APL (Average Picture Level) all in one place, making it a calibrators dream. The 8K SIX-G is ISF Labs and DPL Labs certified, the firmware is field upgradable, and it even includes audio confidence tests.

## FEATURES:
- 8K SIX-G Features:
- HDMI 2.1 Support
- 8K@60 4:2:0 10-bit Maximum Resolution
- Fixed Rate Link (FRL)
- Color Space Selectable
- Full Range RGB (0-255)
- SMPTE RGB (16-235)
- YC444, 422, 420 (16-235)
- Auto Detect (read EDID – display preferred format)
- High Bit Depth – 8, 10, 12, and 16 bit per pixel support
- HDR (High Dynamic Range) Support
- Multiple HDR Memories
- HDR 10, 10+
- HLG

## SIX-G Connection Diagram
### Distributed System

| Signal Path | ▶ - - - ▶ |
| Test HDMI | ◀━━━▶ |
| SIX-G Test Point | ⭐ |

8K SOURCE → HDBaseT Tx or HDIP Encoder → HDBaseT Rx or HDIP Decoder → REPEATER or AVR → [display]
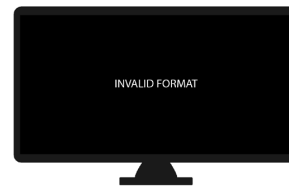
**MURIDEO**
7680x4320  60Hz
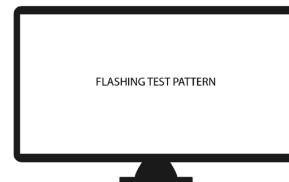FRL 4L10G

**Procedure:**
Inject good signal into the Tx. Note: When using marginal CAT cables or if there are faulty terminations, full bandwidth signals will not pass.

1. Test/verify highest resolution.
2. Test for HDCP 1.4, 2.2, and 2.3
3. Test for color space
4. Test for 3D functionality

Check settings and routing if the extender and repeater are not passing the test pattern through. Check for bad terminations and long runs exceeding the length of the extender.

INVALID FORMAT

Invalid format = is not HDCP 2.3 compliant

FLASHING TEST PATTERN

Flashing Pattern = HDCP

# MURIDEO®

Beyond a test pattern generator, the SIX–G is the essential tool for anyone working with HDMI, able to product video signals up to 18Gbps and confirm HDCP 2.2. as well as the ideal display calibration assistant

## PRODUCT SPECIFICATIONS:

| VIDEO: | |
| --- | --- |
| HDMI VERSION | HDMI 2.1 (FRL5 40GBPS) |
| HDCP VERSION | HDCP 2.3 AND 1.4 |
| HDCP ON/OFF | YES |
| MAXIMUM CLOCK RATE | 600 Mcsc (594 MHz) |
| MAXIMUM THROUGHPUT PER CHANNEL | 10.0 Gbits/sec (40 GBP/sec TOTAL) |
| RESOLUTION TIMINGS | VESA; VIDEO STANDARD WITH 60, 59.94, 30, 29.97, 24, 23.98, fps; VIDEO STANDARD WITH 50, 25 fps; AUTO AND 10 USER DEFINDED |
| VIDEO ENCODING | RGB, YCbCr |
| VIDEO SAMPLING MODELS | RGB 4:4:4, YUV 4:4:4, YUV 4:2:2, YUV 4:2:0 HDMI 2.0 |
| COLOR BIT DEPTH | 8, 10, 12, 16, AND AUTO EDID READ |
| PATTERNS | OVER 80 BUILT IN INCLUDING ISF GEOMETERY, ISF RESOLUTION, ISF PLUGE, COLORS, FOCUS, RESOLUTION, BARS, RAMPS, MULTIBURST, BLACK/WHITE AND MOVING BARS. |
| AUDIO: | |
| AUDIO CHANNELS | UP TO 8 (7.1) |
| AUDIO OUTPUT | 2 CH LPCM |
| VU METER CHANNELS | UP TO 8 (7.1) |
| PORTS: | |
| HDMI | TYPE A |
| AUDIO (L/R INPUT) | 3.5MM STEREO (3-CONDUCTOR) |
| SYNC (SYNC & LATENCY TEST) | 3.5MM STEREO (3-CONDUCTOR) |
| RS232 | 3.5MM STEREO (3-CONDUCTOR) |
| FIRMWARE/CONTROL | MICRO USB |
| ENVIRONMENTAL: | |
| OPERATING TEMPRATURE | 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 | 7.4V 2600mAh INTERNAL BATTERY OR WALL ADAPTER |
| POWER CONSUMPTION (TOTAL) | 12 WATTS MAX |
| POWER SUPPLY | INPUT: AC 100-240V ~ 50/60HZ OUTPUT: DC 12V 2A |
| DIMENSIONS: | |
| DIMENSIONS (UNIT ONLY DEPTH/WIDTH/HEIGHT) | MM: 28.8 x 108.44 x 139 INCH: 1.13 x 4.27 x 5.47 |
| WEIGHT (UNIT) | 0.8 LBS/0.36 KG |

*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. MASS & DIMENSIONS ARE APPROXIMATE