

Murideo

Field Test Monitor



User's Manual Version 1.00

Important Safety Information

- Follow all instructions
- Use only a dry cloth to clean
- Use caution not to block top vents on unit
- Indoor use only: To reduce the risk of electric shock, do not use near water or expose to rain or moisture. Keep away from excess moisture
- Do not use near heat sources such as room heaters, hot A/V equipment
- Read all warnings
- Unplug the device during lightning storms or when unused for long periods of time
- Keep away from open flames
- Protect all connected cords including power cords from being pinched, compressed, and stepped on
- Do not open the case. All servicing should be done only by qualified and approved service personnel and will void the warranty.
- Electrical Input Rating: Power over 12V/DC 1500mA.
 - Caution: Use only the supplied AC/DC Adapter
- Operating temperature range: e.g. 0 to 40C.
- To disconnect power sources, remove the AC/DC adapter from the wall outlets.

Attention:

1. In order to protect your Field Test Monitor from possible damages, please do not turn on the unit before HDMI cables are attached to the device. Please make sure that connected source is completely powered off before you insert or extract HDMI cables.
2. Please insert and extract HDMI cables from your Field Test Monitor gently and with high level of care.

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Thank you for purchasing the Murideo Field Test Monitor

- 18Gbps 4K60 with HDR Support
- 7 Inch Full HD Playback Screen
- Built-in Signal Analyzer
- HDCP 2.3 Support
- Battery Adapter for on-the-go testing
- EDID Management

Murideo's Test Monitor is a single, seven-inch monitor built for testing 4K signals up to 18Gbps. This compact device comes with a battery adapter for working around a job site, but also fits perfectly at the rack with its HDMI loop out port that will pass along any 4K signal.

As a part of the Murideo testing and troubleshooting family, you know the standards are the highest in the industry. This monitor offers signal analyzer information such as resolution, color space, HDCP, HDR confidence, and audio type analysis.

Mount it locally in a rack or use the battery pack to take it with you, no matter how you use it, hunting down HDMI issues just got a lot easier with Murideo's HDMI 4K Test Monitor.

What's in the Box

- x1 Field Test Monitor
- x1 12V DC/AC Power Supply
- x1 HDMI Cable
- x1 Adjustable stand
- x1 Battery Adapter
 - (fits 7.2V Sony NP-F series batteries)
- x2 sets of mounting screws
 - One set for stand, one for Battery Adapter



VIDEO:

HDMI VERSION	HDMI 2.0
HDCP VERSION	HDCP 2.2 AND 1.4
MAXIMUM CLOCK RATE	600 Mcsc (594 MHz)
MAXIMUM THROUGHPUT PER CHANNEL	6.0 GBITS/SEC (18 GBP/SEC TOTAL)
RESOLUTION TIMINGS	ALL VESA; VIDEO STANDARD WITH 60, 59.94, 30, 29.97, 24, 23.98, FPS; VIDEO STANDARD WITH 50, 25 FPS; SMPTE 4K TIMINGS (4096x2160); UHD 4K TIMINGS (3840x2160)
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

AUDIO:

AUDIO TYPE	LPCM
AUDIO SAMPLING RATE	32k, 44.1k, 48k, 88k, 96k, 176k
AUDIO SAMPLING BIT SIZE	16, 20, 24, AUTO
AUDIO CHANNELS	2
AUDIO VOLUME	YES

PORTS:

HDMI (INPUT AND MIRRORRED OUTPUT)	TYPE A
AUDIO (3.5MM HEADPHONE)	3.5MM STEREO (3-CONDUCTOR)
FIRMWARE	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	12V WALL ADAPTER OR EXTERNAL BATTERY PACK
COMPATIBLE BATTERY PACKS	7.2V SONY NP-F SERIES BATTERIES
POWER CONSUMPTION (TOTAL)	9 WATTS MAX
POWER SUPPLY	INPUT: AC 100-240V ~ 50/60HZ OUTPUT: DC 12V 1.5A

DIMENSIONS:

DIMENSIONS (UNIT ONLY WIDTH/HEIGHT/DEPTH)	MM: 190.5 x 127x 22.23 INCH: 7.5 x 5 x 0.875
WEIGHT (UNIT)	0.8 LBS/0.36 KG

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

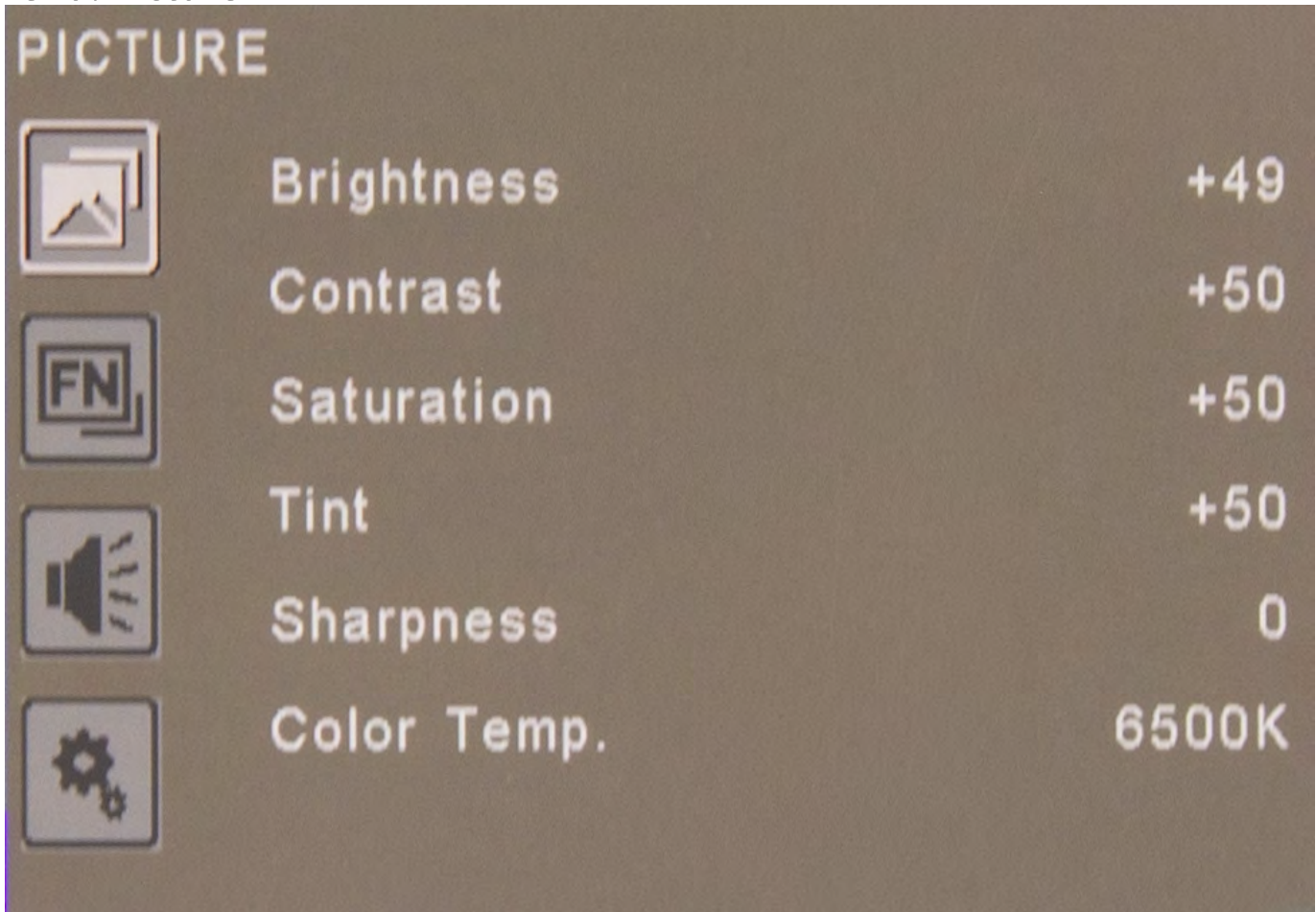
Device Overview: Top Buttons



From Left to Right Buttons

- **< MENU >**
 - Click-able scroll wheel for navigating the Menu
 - When not in the Menu, this wheel can adjust the Monitors brightness, contrast, saturation, tint, sharpness, and Volume (see page 10 for details)
- **EXIT**
 - Exit or back button for navigating the Menu
- **F1**
 - Programmable button
 - Default is Aspect Ratio (button press changes aspect ratio)
- **F2**
 - Programmable button
 - Default is Audio Level Meter (button press turns On/Off)
- **F3**
 - Turns on screen signal info On/Off

Menu: Picture



- Brightness - Adjust the Field Test Monitors screen brightness
 - 0~100 (Default +50)
- Contrast - Adjust the Field Test Monitors screen contrast
 - 0~100 (Default +50)
- Saturation - Adjust the Field Test Monitors screen saturation
 - 0~100 (Default +50)
- Sharpness - Adjust the Field Test Monitors screen sharpness
 - 0~100 (Default 0)
- Color Temp. - Adjust the Field Test Monitors screen color temperature
 - 6500K, 7500K, 9300K, and USER (see note below)

*NOTE: When in USER Color Temp, you have the ability to alter RED/GREEN/BLUE Gain and Offset
 Gain is adjustable from 0~255, default is +128 for all three colors (red/green/blue)
 Offset is adjustable from 0~511, default for is +256 for all three colors (red/green/blue)

Menu: Function

FUNCTION		
	Scan	Aspect
	Aspect	Full
	Display Scan	Fullscan
	Check Field	Off
	Zoom	X2
	Freeze	Off
	Image Flip	Off

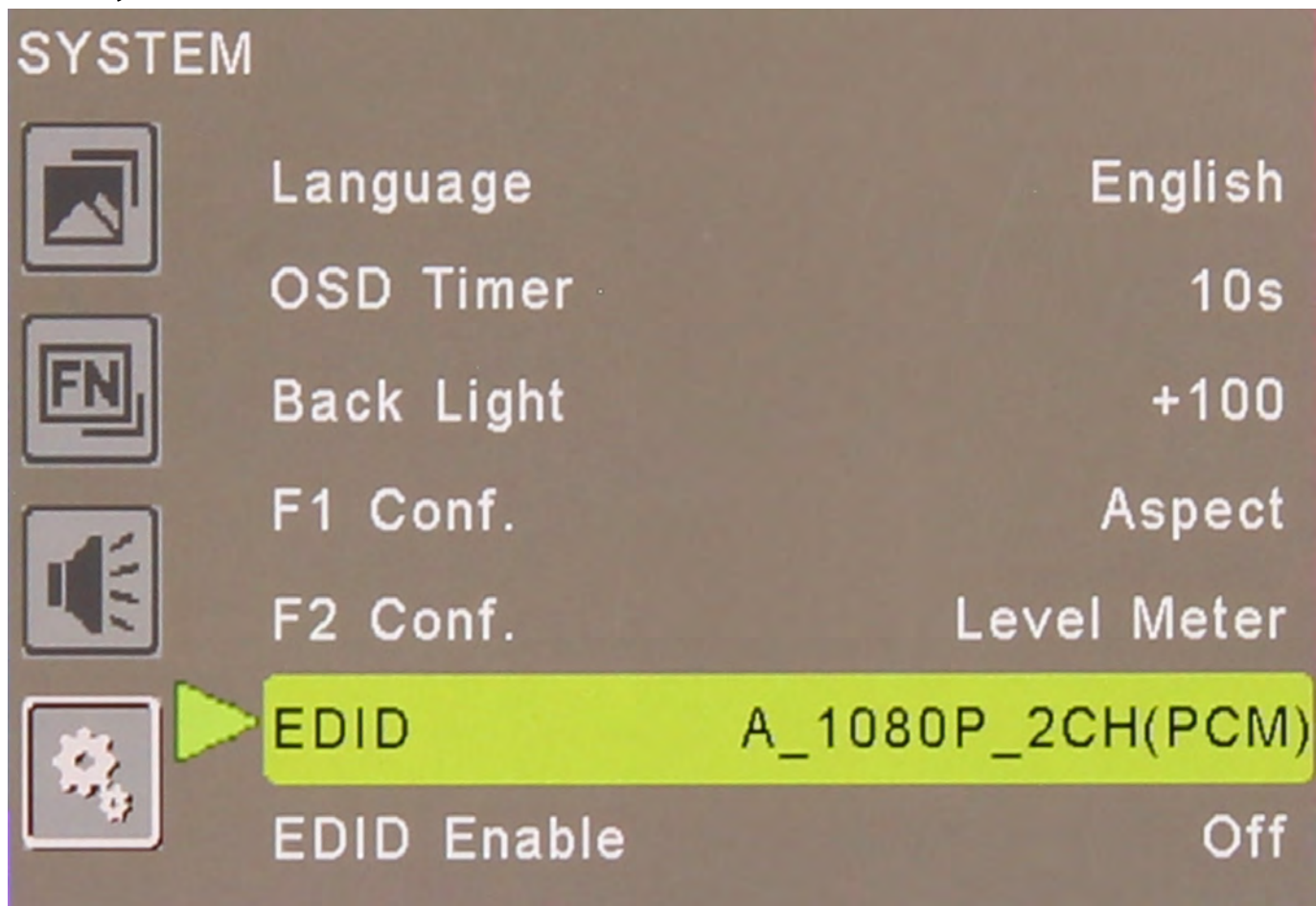
- Scan - To change the Aspect ration this needs to be set to Aspect. To change the Display Scan settings, change to Scan. Pixel to Pixel does not alter the image (this will also lock out other settings)
 - Aspect, Pixel to Pixel, Zoom
- Aspect - Changes the displays aspect ratio (Scan field must be set to Aspect)
 - Full, 16:9, 1.85:1, 2.35:1, 4:3, and 3:2
- Display Scan - (Scan field must be set to Aspect or Zoom)
 - Full-scan (full picture), Over-scan (zooms in), and Under-scan (zooms out)
- Check Field - Color decoding check
 - Off, Mono, Red, Green, and Blue
- Zoom - Changes the Zoom level (Scan field must be set to Zoom)
 - x1.5, x2, x3, and x4
- Freeze - Turning On, freezes the current image on the screen
 - To un-freeze, turn Freeze option Off
- Image Flip - This rotates/flips the screen allowing for multiple configurations
 - H (flips image Horizontally)
 - V (flips image Vertically)
 - HV (flips image both Horizontally and Vertically)

Menu: Audio



- Volume - Changes the built in speakers volume level
 - 0~100 (Default is 50)
- The volume can also be adjusted without going into the menu (see page 11)
- Level Meter - Turns the on screen Level Meter On/Off
- This can also be turned On/Off by clicking the F2 button (with default settings)

Menu: System



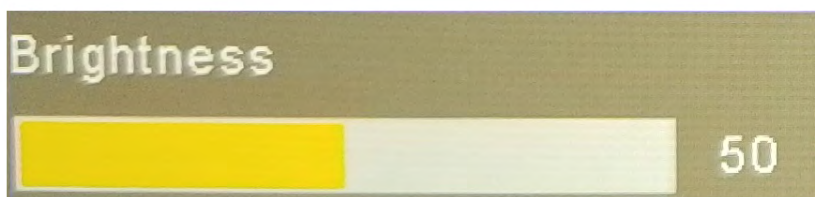
- Language - Changes the monitors language
- OSD Timer - Changes how long the OSD (On Screen Display) is visible
 - 10, 20, and 30 seconds
- Back Light - Changes the monitors back light level
 - 0~100 (Default is 100)
- F1 Config - Changes the F1 button functionality
 - Aspect, Freeze, Image Flip, Level Meter, Check Field, Display Scan, and Scan
- F2 Config - Changes the F2 button functionality
 - Aspect, Freeze, Image Flip, Level Meter, Check Field, Display Scan, and Scan
- EDID - Change the built in EDID
- EDID Enable - To set the selected EDID
 - Under EDID, select the desired EDID then select EDID Enable and turn On. Default is 1920x1080P 2Ch.
- Reset - Resets the Field Monitor to its default settings (scroll past EDID Enable)

Main Screen: Shortcut settings

Without entering into the menu, there are select settings that can be changed using the Test Monitors Menu wheel and Exit button.

1. Move the scroll wheel in either direction, this will bring up the Brightness setting
2. Clicking down on the wheel will switch between the six different settings (see below)
3. When on the setting you would like to alter, use the wheel to Increase/Decrease
4. Press the either the EXIT button, or down on the Menu Wheel to exit, or wait (automatically exits after 5 seconds of inactivity)

**Note: Images below represent the Default settings*



Hardware: Attaching Stand

There is an adjustable stand included in the box, attach using the longer screws with the flat heads that are provided



Hardware: Attaching the Battery Adapter

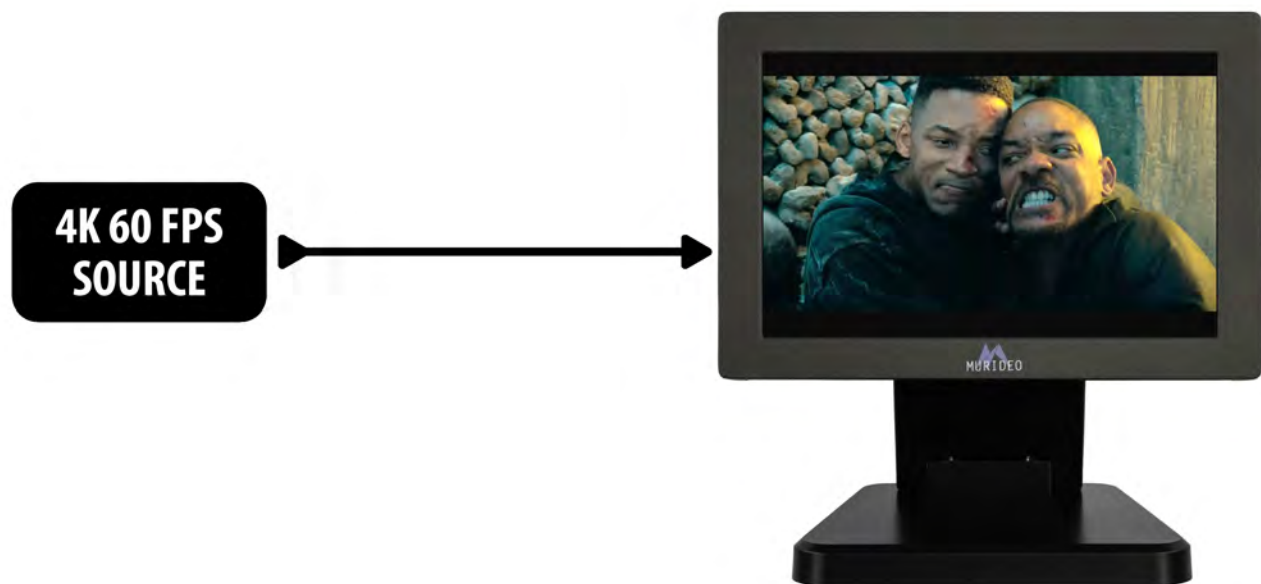
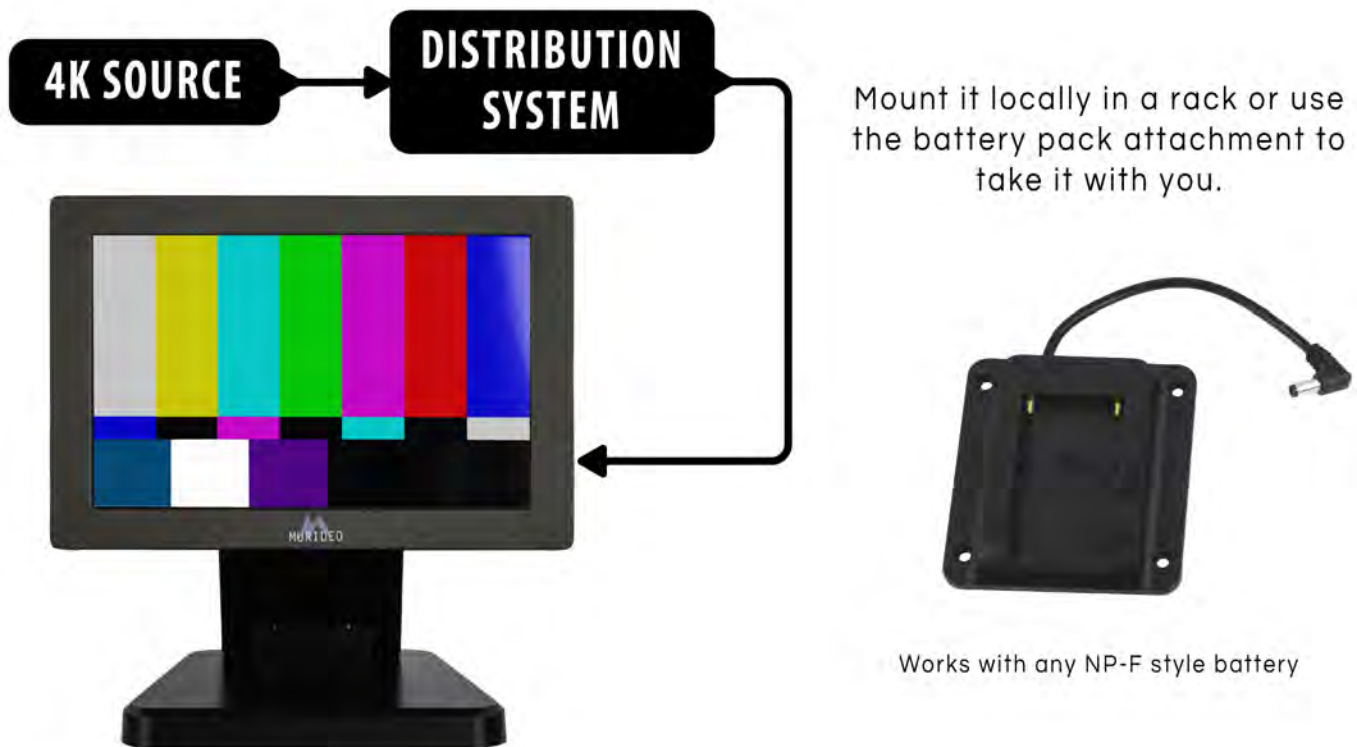
There is a battery adapter plate designed for 7.2V Sony NP-F Style batteries, use the screws with the rounded head provided

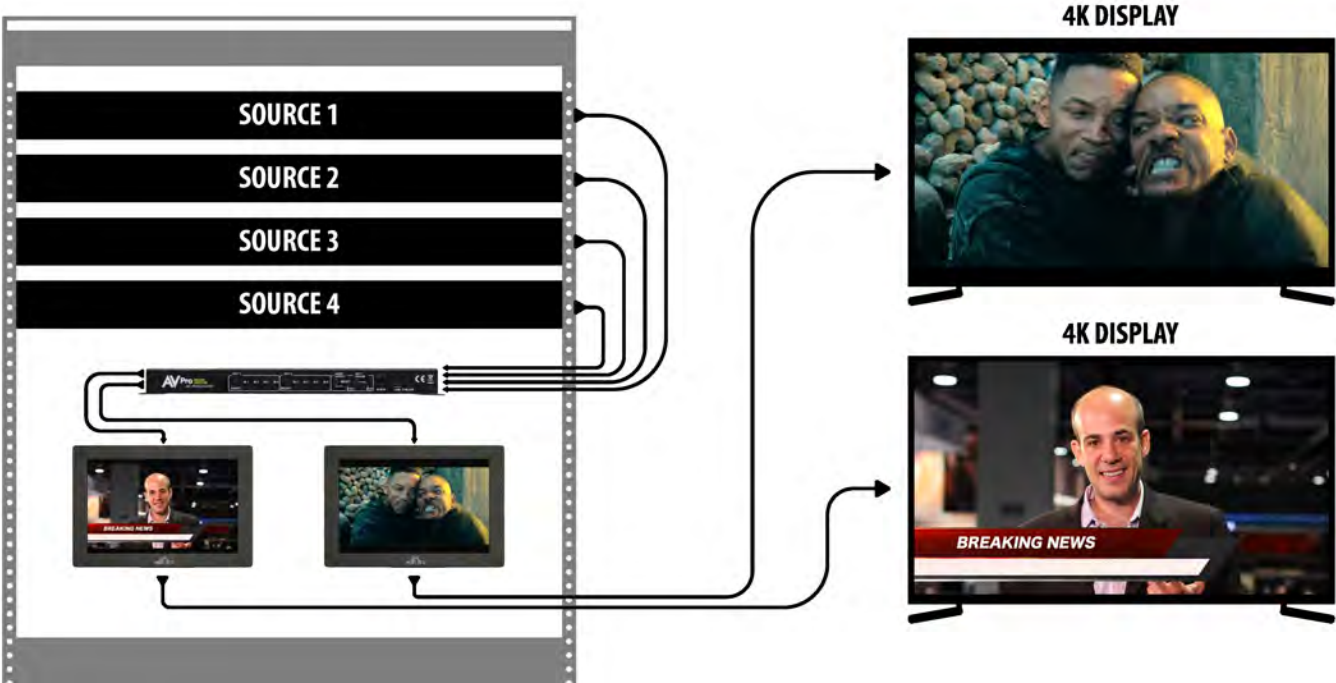


MURIDEO TEST MONITOR CONNECTION DIAGRAM

MUR-MON-SING

HDMI —





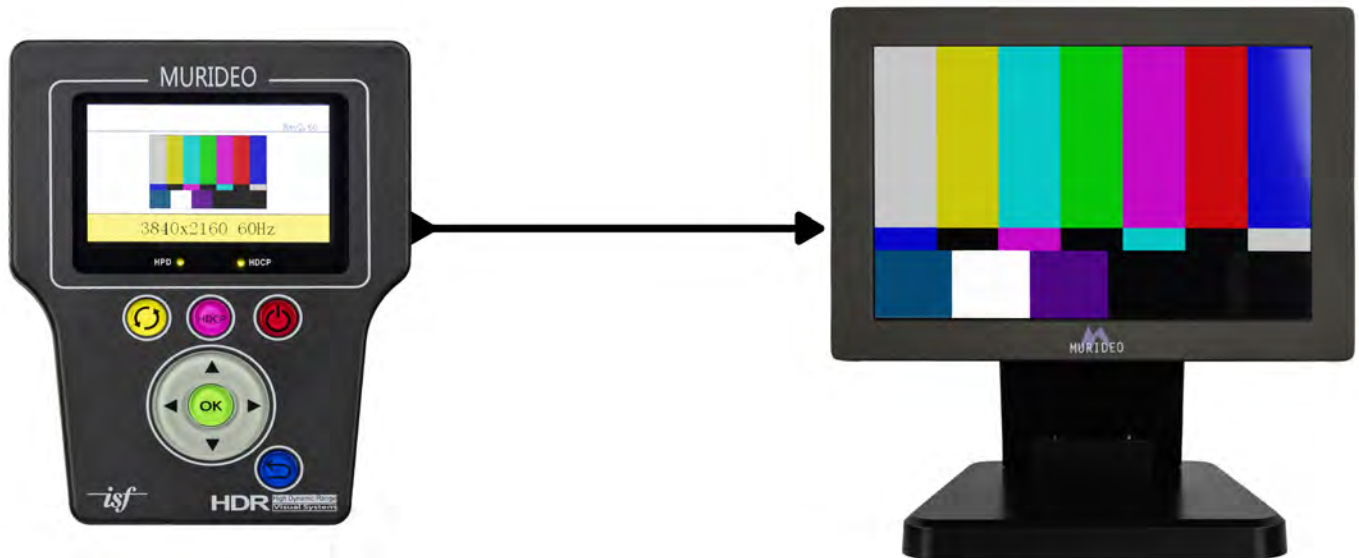
HDMI PASSTHROUGH



SIG-G & TEST MONITOR CONNECTION DIAGRAM

MUR-MON-SING

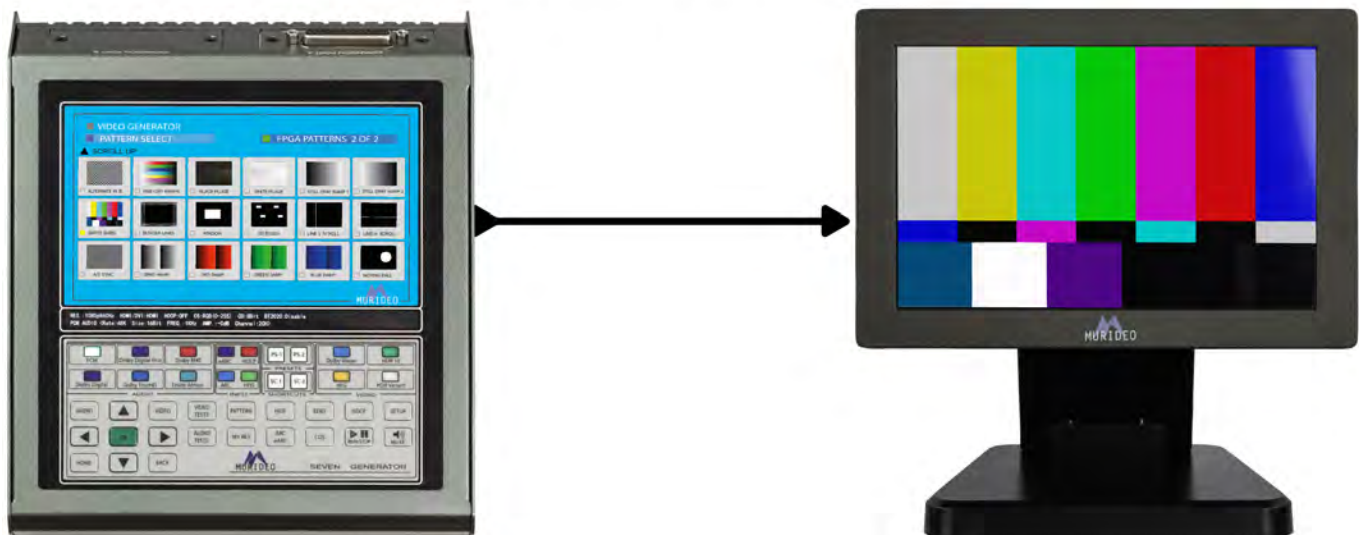
HDMI —



SEVEN G & TEST MONITOR CONNECTION DIAGRAM

MUR-MON-SING

HDMI —



Updating Firmware

Field firmware updates are available via USB port. Firmware updates, when available will be posted on the Murideo.com web site, along with instructions.

FCC Interference and Compliance Statement

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution

To comply with the limits for an FCC Class B computing device, always use the shielded signal cord supplied with this unit. The Federal Communications Commission warns that changes or modifications of the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CE mark for Class B ITE (Following European standard EN55022/1998; EN61000-3-2/1995; EN61000-3-3/1995, EN55024/1998, EN60950-1/2001)

Radio Frequency Interference Statement Warning: This is a Class B product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures

Warranty and Getting Help

AVPro Global Holdings (DBA MURIDEO) offers a 2 year international limited warranty for its Murideo products. Any product first sold to you is guaranteed to be free from defects in both components and workmanship under regular uses. The warranty period commences on the date the item ships. Attention: Your invoice with the date of purchase, model number and serial number of the product is your proof of the date of purchase. The International Limited Warranty is applicable and shall be honored in every country where MURIDEO or its Authorized Service Providers offer warranty service subject to the terms and conditions provided in this International Limited Warranty Statement. Products included in this warranty:

- ✓ Murideo SEVEN Generator
- ✓ Murideo SIX G Generator
- ✓ Murideo SIX A Analyzer
- ✓ Murideo Fox & Hound Testing and Troubleshooting Kit
- ✓ Murideo 4K HDMI Test Monitor

During the warranty period, the defective hardware of Murideo products will be either repaired or replaced, with new or like new products, at the discretion of Murideo. This International Limited Warranty covers the costs of service parts and labor required to restore your product to fully functional condition. MURIDEO will, at its discretion, repair or replace any defective products or parts thereof covered by this International Limited warranty with refurbished parts of the product that are equivalent to new or like new products in both functionality and performance. A product or part that is repaired or replaced under this International Limited Warranty shall be covered for the remainder of the original warranty period applying to the product or part, or for 90-days, whichever expires last. All exchanged parts and products under this International Limited Warranty will become the property of MURIDEO.

Obtaining the Warranty Service

Warranty service or Returned Merchandise Authorization (RMA) under this International Limited Warranty will be honored only if claims are made within the warranty period. For notifications to MURIDEO or products outside the warranty period, the process will be the same, but charges may apply. Contact details may be obtained on MURIDEO website <https://www.murideo.com/>

Customers are requested to perform the following actions before claiming MURIDEO product as defective:

- (a) Owner must notify MURIDEO, during the warranty period, in writing of alleged defect, and allow MURIDEO a reasonable opportunity to inspect the allegedly defective product;
- (b) No Product may be returned without MURIDEO's consent, The MURIDEO RMA# must accompany all returns, and all returns must be delivered to MURIDEO within the warranty period;
- (c) Owner may, then at its own expense, return the allegedly defective Product, freight pre-paid and in the original packaging, accompanied by a brief statement explaining the alleged defect to MURIDEO;
- (d) If MURIDEO determines that any returned Product is not defective, or if MURIDEO determines that the defect is not covered by the warranty, MURIDEO will return the Product to the Owner at Owner's expense, freight collect, and Owner agrees to pay MURIDEO's reasonable cost of handling and testing;
- (e) Upon determining that a returned product is defective, to receive warranty service Owner will need to present the invoice showing the original purchase transaction. If shipping the product, Owner will need to package it carefully and send it, transportation prepaid by a traceable, insured method, to the MURIDEO Service Center. Package the product using adequate padding material to prevent damage in transit. The original container is ideal for this purpose. Include the RMA #, your name, return shipping address, email address and telephone number where you may be reached during business hours, inside the shipping package with the unit. Any replacement unit will be warranted under these Terms and Conditions for the remainder of the original warranty period or ninety (90) days whichever is longer.

Refer to user manual available for download on our website <http://www.murideo.com/> for important tips on how to operate and troubleshoot the product.

- Damage caused by act of nature, such as fire, flood, wind, earthquake, lightning, etc.
- Damage or incompatibility caused by failure to perform a proper installation or to provide an appropriate operational environment for the product, including but not limited to unstable wired/ wireless network connection and phone lines, bad grounding, external electro-magnetic fields, direct sunlight, high humidity and vibration.
- Damage caused by impact with other objects, dropping, falls, spilled liquids, or submersion in liquids.
- Damage caused by unauthorized repair or disassembling of the product.
- Damage caused by any other abuse, misuse, mishandling, or misapplication.
- Damage caused by third party peripherals (including but not limited to visible damages on motherboard or other electronic parts of the product such as burn spots after electric discharge, melting, fusing, splitting, etc.)
- Any unauthorized software or modification of built-in software not approved by MURIDEO.
- The serial number of the product (or serial number stickers of its parts) has been modified, removed, blurred or damaged.
- Defects caused by transportation, handling or customer abuse.

Disclaimer of Warranty

THIS WARRANTY IS EXPRESSED IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON MURIDEO' S PART, AND IT NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PARTY TO ASSUME FOR MURIDEO ANY OTHER LIABILITIES. THE FOREGOING CONSTITUTES THE BUYER' S SOLE AND EXCLUSIVE REMEDY FOR THE FURNISHING OF DEFECTIVE OR NONCONFORMING PRODUCTS AND MURIDEO WILL NOT IN ANY EVENT BE LIABLE FOR COST OF SUBSTITUTE OR REPLACEMENT, COST OF FACILITIES OR SERVICE, DOWNTIME COSTS, LOSS OF PROFITS, REVENUES OR GOODWILL, RELIANCE DAMAGES, LOSS OF DATA, LOSS OF USE IF OR DAMAGE TO ANY ASSOCIATED EQUIPMENT, OR ANY OTHER INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES BY REASON OF THE FACT THAT SUCH PRODUCTS WILL HAVE BEEN DETERMINED TO BE DEFECTIVE OR NONCONFORMING. THE RIGHTS AND OBLIGATIONS OF THE PARTIES UNDER THIS AGREEMENT SHALL NOT BE GOVERNED BY THE PROVISIONS OF THE 1980 U.S. CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS OR THE UNITED NATIONS CONVENTION ON THE LIMITATION PERIOD IN THE INTERNATIONAL SALE OF GOODS, AS AMENDED (COLLECTIVELY, THE "CONVENTIONS"); RATHER, THE RIGHTS AND OBLIGATIONS OF THE PARTIES SHALL BE GOVERNED BY THE LAWS OF THE STATE OF SOUTH DAKOTA, INCLUDING ITS PROVISIONS OF THE UNIFORM COMMERCIAL CODE, AS APPLICABLE. FOR THE AVOIDANCE OF DOUBT, THE CONVENTIONS ARE HEREBY EXCLUDED.

This Limited Warranty gives you specific legal rights. You may also have other rights that may vary from state to state or from country to country. You are advised to consult applicable state or country laws for full determination of your rights. Some jurisdictions do not allow the exclusion or limitation of special, incidental or consequential damages, or limitations on how long a warranty lasts, so the above exclusion and limitations may not apply to everyone.

Getting Help

For service and support, contact your local dealer.

To find your dealer or to contact MURIDEO support,
go to: <https://support.murideo.com/>

or call

+1-605-782-2462 for worldwide technical support

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