MU-SEVEN-G-8K

Professional Audio/Video Testing Device for HDMI 2.1, ARC/eARC, Latency & Calibration An Approved Test Device for Dolby Audio ™

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Introduction

The SEVEN Generator is the next generation in HDMI test and measurement equipment from Murideo. An approved test device for Dolby Vision™ and Dolby Audio™, the SEVEN hosts an unmatched suite of audio and video tests. This device is the GO-TO tool for the video device, display, or repeater manufacturer as well as the consummate video professional.

The impressive video capabilities of the SEVEN include native 10/12 Bit BT2020 video output with over 1000 patterns, including HDR, SDR, Dolby Vision, and HLG. Test patterns are generated from FPGA or raw YUV files for a truly native experience and include video playback. The SEVEN includes the full suite of patterns from Diversified Video Solutions and other patterns and videos from Bill Wetzel, ISF, PVA, Portrait Displays, and Spears & Munsil. This device is the ideal solution for display calibration and evaluation. The test suite allows the user to construct a test signal with any video format and any audio format, then execute a test based on your own parameters and allows for reporting. The device has 1.5TB of storage, with reservations for up to 3 minutes of 4K60 4:4:4 video playback so the user can quickly load patterns using the USB 3.0 interface. The SEVEN is also capable of 120 frame video playback.

The impeccable performance in video generation is just the beginning. As a test device approved by Dolby Laboratories, Inc., SEVEN was designed with advanced audio testing capabilities, including A/V Sync (Lip Sync), Audio Latency, and Dolby Audio. This approved test device for Dolby Audio contains all current Dolby Audio streams, including; Dolby Digital, Dolby Digital Plus (w/Dolby Atmos), Dolby MAT (Dolby Atmos), and Dolby True HD (w/ Dolby Atmos). The Audio Suite of tests is available in HDMI Tx, ARC Tx, and eARC Tx. With additional features like tone generation, frequency sweeps, AV Sync measurements, audio latency measurements, this is an audio swiss army knife. The built-in photo-diode sensor and microphone allow you to get real-time sync and latency measurements from HDMI and ARC/eARC.

NOTE: This document contains many technical terms and acronyms. If you are unsure of what these mean we have a full GLOSSARY of Audio Video terms with definitions available at www.murideo.com

Features

- Complete HDMI 2.0 Support (All Revisions)
- 600 Mcsc - 2160P @60 4:4:4 Maximum Resolution
- 40Gbps FRL HDMI 2.1 Support
- 4K BT2020 (WCG) 10/12 Bit Support (Native)
- Dolby Vision, HDR 10, HLG, SDR
- HDCP 2.3 Support
- ARC/eARC Tx and Rx
- 1080P 120Hz patterns and video playback
- ISF Labs Certified
- Control - Front Panel/PC Software/WebUI
- Haptic Front Keypad
- API (Application Programming Interface) Available upon request
- 7” 1080P Display
- Custom Test Pattern, Video Clip, and Audio Stream Uploader PC Software
- USB 3.0 for fast uploads
- Reservation for up to 3 minutes of full 4K video
- Native YUV/RGB File upload and playback

In the Box

- SEVEN Generator
- Hard Case
- Mini XLR Microphone
- Optical Sensor
- USB cable
- Mini Tripod
- Power Supply (12V/5A Locking Barrel Type)

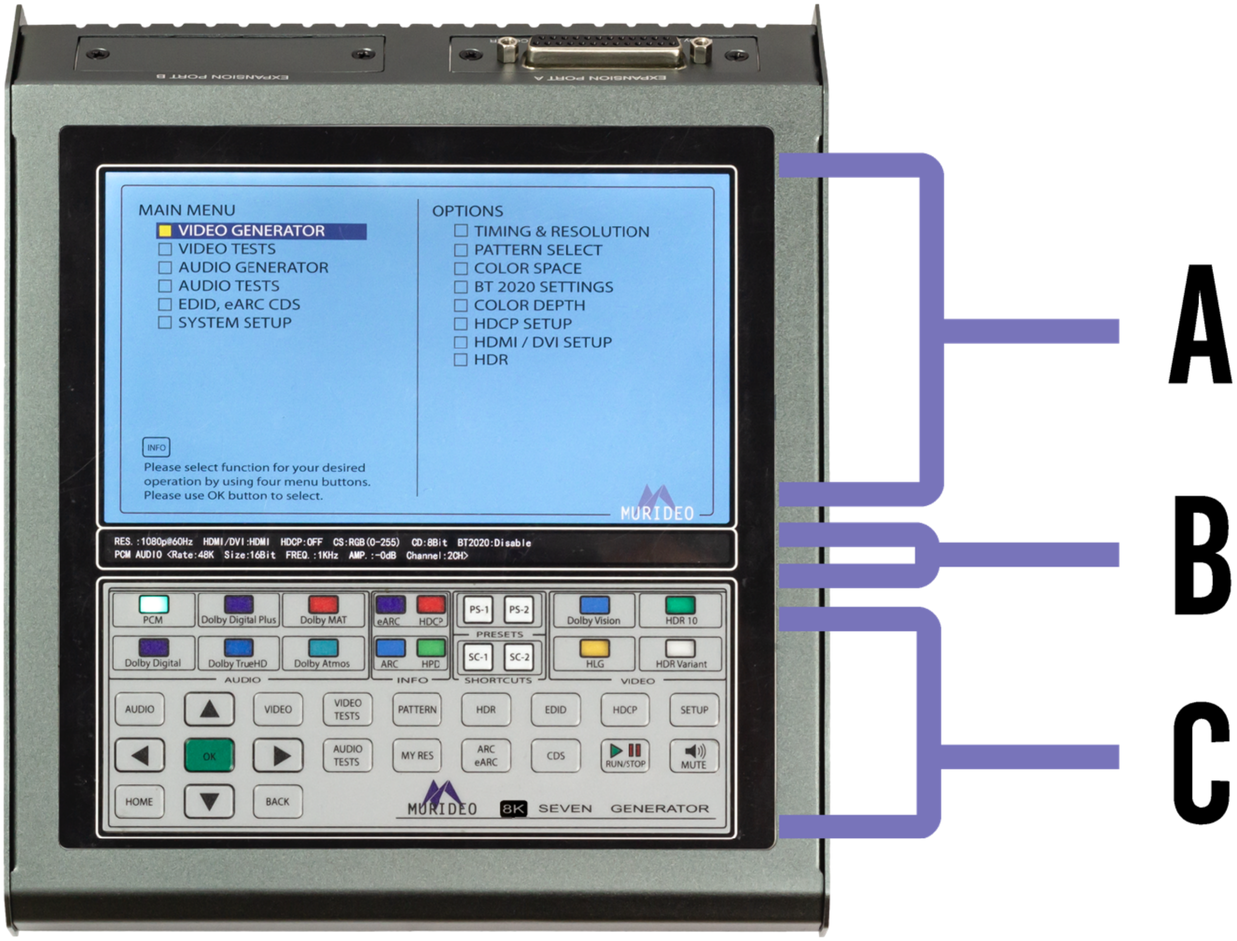
Free PC Software

- PC Control Software
- Device Log
- Protocol Analyzer
- User Audio Uploader
- User Video Uploader

Available for download at www.murideo.com
Price - $0.00 !!!

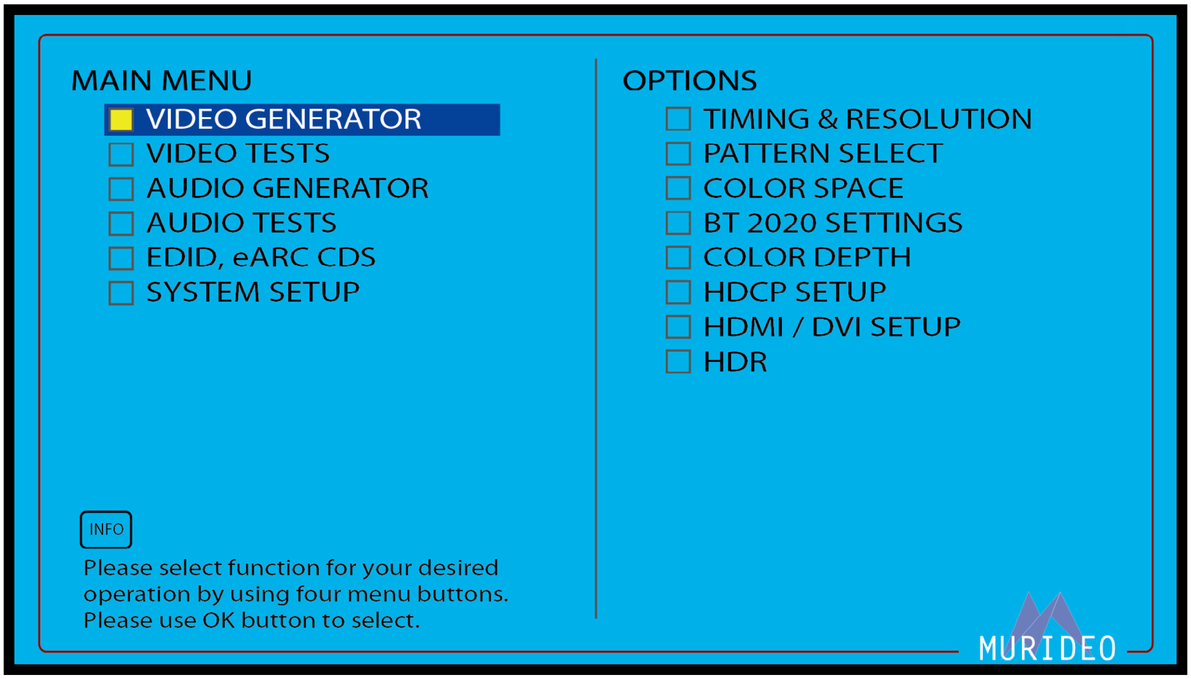
VIDEO:	
VIDEO RESOLUTIONS	UP TO 8K 60Hz 4:2:0 (4K120 4:4:4:)
VESA RESOLUTIONS	UP TO DCI 4K (4096x2160)
HDR FORMATS/RESOLUTIONS	420, 422, 444 (10 AND 12 DEEP COLOR) HDR10, HDR10+, DOLBY VISION, HLG
COLOR SPACE	YUV (COMPONENT), RGB (CSC: REC. 601, REC. 709, BT2020, DCI, P3 D6500)
CHROMA SUBSAMPLING	4:4:4, 4:2:2, 4:2:0 SUPPORTED
DEEP COLOR	UP TO 16 BIT (1080P), UP TO 12 BIT (4K)
AUDIO:	
AUDIO FORMATS SUPPORTED HDMI	PCM 2.0 CH, LPCM 5.1 &7.1, DOLBY DIGITAL, DOLBY DIGITAL PLUS (W/ ATMOS), DOLY MAT (W/ ATMOS) DOLBY TRUEHD (W/ ATMOS), DTS DIGITAL SURROUND, DTS-HD HIGH RESOLUTION, DTS-HD MASTER AUDIO, DTS:X, AND DTS EXPRESS
AUDIO FORMATS SUPPORTED eARC	PCM 2.0 CH, LPCM 5.1 &7.1, DOLBY DIGITAL, DOLBY DIGITAL PLUS (W/ ATMOS), DOLY MAT (W/ ATMOS) DOLBY TRUEHD (W/ ATMOS), DTS DIGITAL SURROUND, DTS-HD HIGH RESOLUTION, DTS-HD MASTER AUDIO, DTS:X, AND DTS EXPRESS
AUDIO FORMATS SUPPORTED ARC	PCM 2.0 CH, LPCM 5.1 &7.1, DOLBY DIGITAL, DOLBY DIGITAL PLUS (W/ ATMOS)
AUDIO FORMATS SUPPORTED (TOSLINK)	PCM 2.0 CH, LPCM 5.1 &7.1, DOLBY DIGITAL, DOLBY DIGITAL PLUS, DTS DIGITAL SURROUND
AUDIO FORMATS SUPPORTED (COAX)	PCM 2.0 CH, LPCM 5.1, DOLBY DIGITAL, DTS DIGITAL SURROUND
OTHER:	
BANDWITH	40Gbps (FRL)
HDCP	HDCP 2.3 AND EARLIER
CONTROL:	
PORTS	LAN, RS232, 3 PIN TERMINAL, USB, KEYPAD
LAN WEB UI	YES
PORTS:	
HDMI SOURCE	TYPE A
HDMI SINK (ARC/eARC TX)	TYPE A
LAN WEB UI	RJ45 W/ WEB INTERFACE/ CONTROL
AUDIO (EXTRACTED DIGITAL)	TOSLINK AND COAXIAL
AUDIO INPUT	3.5MM
RS232	3 PIN TERMINAL BLOCK AND DB9
MICROPHONE	MINI XLR
PHOTO-DIODE	3.5MM
EXPANSION DECODER	DB25
ENVIORMENTAL:	
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 CONSUMPTION (TOTAL)	18 WATTS MAX
POWER SUPPLY	INPUT: AC 100-240V ~ 50/60HZ OUTPUT: DC 12V 5A
*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. MASS & DIMENSIONS ARE APPROXIMATE	

FRONT PANEL OVERVIEW



A - Display

The SEVEN-G includes a High Resoltution 1080P Full Color Display.



MAIN MENU
- ■ VIDEO GENERATOR
- ☐ VIDEO TESTS
- ☐ AUDIO GENERATOR
- ☐ AUDIO TESTS
- ☐ EDID, eARC CDS
- ☐ SYSTEM SETUP

OPTIONS
- ☐ TIMING & RESOLUTION
- ☐ PATTERN SELECT
- ☐ COLOR SPACE
- ☐ BT 2020 SETTINGS
- ☐ COLOR DEPTH
- ☐ HDCP SETUP
- ☐ HDMI / DVI SETUP
- ☐ HDR

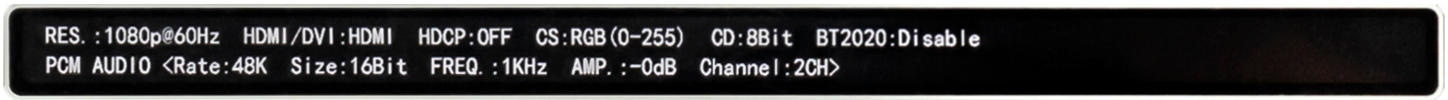
INFO

Please select function for your desired
operation by using four menu buttons.
Please use OK button to select.

MURIDEO

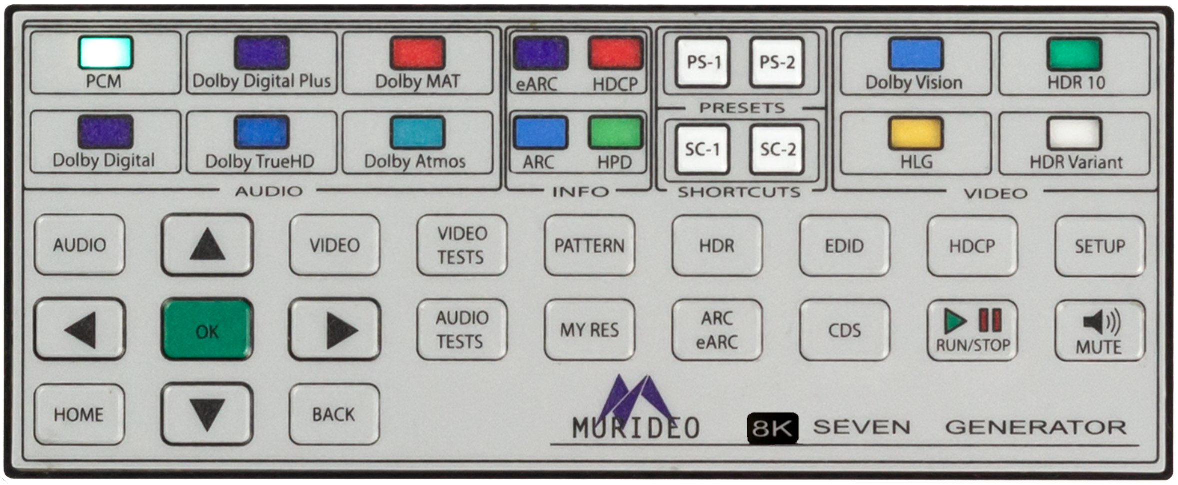
B - Audio/Video Output Info Bar

The AUDIO / VIDEO OUTPUT INFO BAR includes all pertinent video and audio output information including resolution, timing, color space, color depth, PQ, audio format, sample rates, data size (bit depth), audio frequency, and audio channel count.

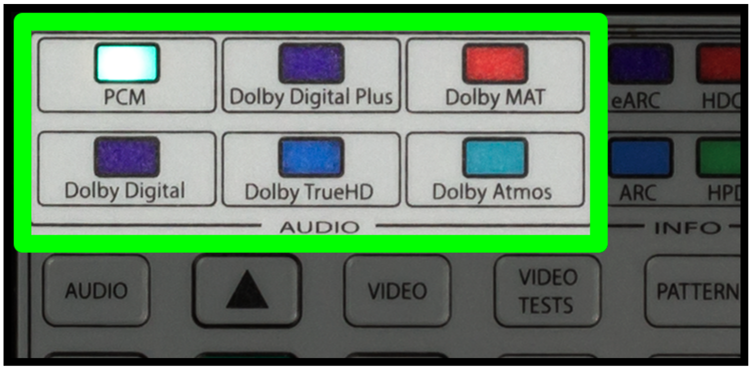


```
RES.:1080p@60Hz  HDMI/DVI:HDMI  HDCP:OFF  CS:RGB(0-255)  CD:8Bit  BT2020:Disable
PCM AUDIO <Rate:48K  Size:16Bit  FREQ.:1KHz  AMP.:-0dB  Channel:2CH>
```

C - Keypad

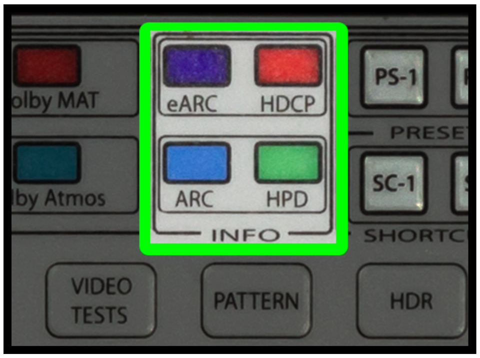

PCM
Dolby Digital Plus
Dolby MAT
Dolby Digital
Dolby TrueHD
Dolby Atmos
AUDIO
eARC
HDCP
ARC
HPD
INFO
PS-1
PS-2
PRESETS
SC-1
SC-2
SHORTCUTS
Dolby Vision
HDR 10
HLG
HDR Variant
VIDEO
AUDIO
VIDEO
VIDEO TESTS
PATTERN
HDR
EDID
HDCP
SETUP
OK
AUDIO TESTS
MY RES
ARC eARC
CDS
RUN/STOP
MUTE
HOME
BACK
MURIDEO
8K SEVEN GENERATOR

Audio Signal Output Indicator Lights


PCM
Dolby Digital Plus
Dolby MAT
Dolby Digital
Dolby TrueHD
Dolby Atmos
AUDIO
eARC
ARC
INFO
AUDIO
VIDEO
VIDEO TESTS
PATTERN

These lights indicate which audio format is currently being generated by the SEVEN-G-8K.
In the example to the right, PCM audio is currently selected as the audio output.

eARC, ARC, HDCP, and HPD Signal Output Indicator Lights

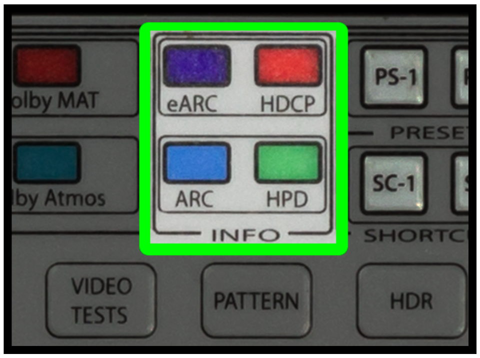

olby MAT
eARC
HDCP
PS-1
PRESE
bly Atmos
ARC
HPD
SC-1
INFO
SHORTC
VIDEO TESTS
PATTERN
HDR

ARC/eARC lights indicate if an ARC/eARC is enabled on the SEVEN-G-8K and the connected device under test.

- OFF - Disabled
- ON - Enabled on the SEVEN-G-8K and connected device under test
- FLASHING - Enabled on the SEVEN-G-8K but not on connected device under test

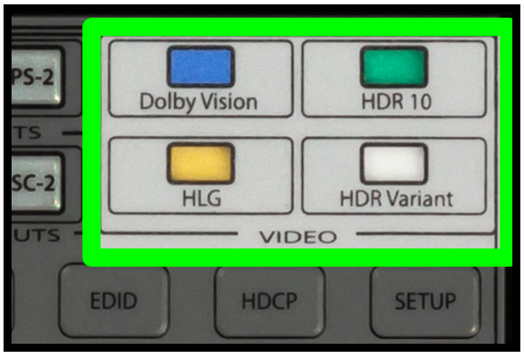
HDCP Light indicates if HDCP is enabled on the SEVEN-G-8K.

HPD Light indicates if a Hot Plug is detected with a device connected to the HDMI OUTPUT of the SEVEN-G-8K


olby MAT
eARC
HDCP
PS-1
PRESE
by Atmos
ARC
HPD
SC-1
INFO
SHORTC
VIDEO TESTS
PATTERN
HDR

Video Signal/Format Output Indicator Lights

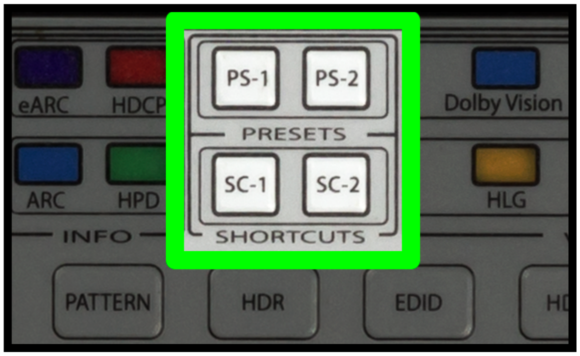
These lights indicate which version of HDR is currently selected. All off indicates an SDR Video signal (no HDR).


PS-2
Dolby Vision
HDR 10
SC-2
HLG
HDR Variant
VIDEO
EDID
HDCP
SETUP

PS-1/PS-2

Preset Shortcut Buttons

For more information see Page 23.


eARC
HDCP
PS-1
PS-2
Dolby Vision
PRESETS
ARC
HPD
SC-1
SC-2
HLG
INFO
SHORTCUTS
PATTERN
HDR
EDID

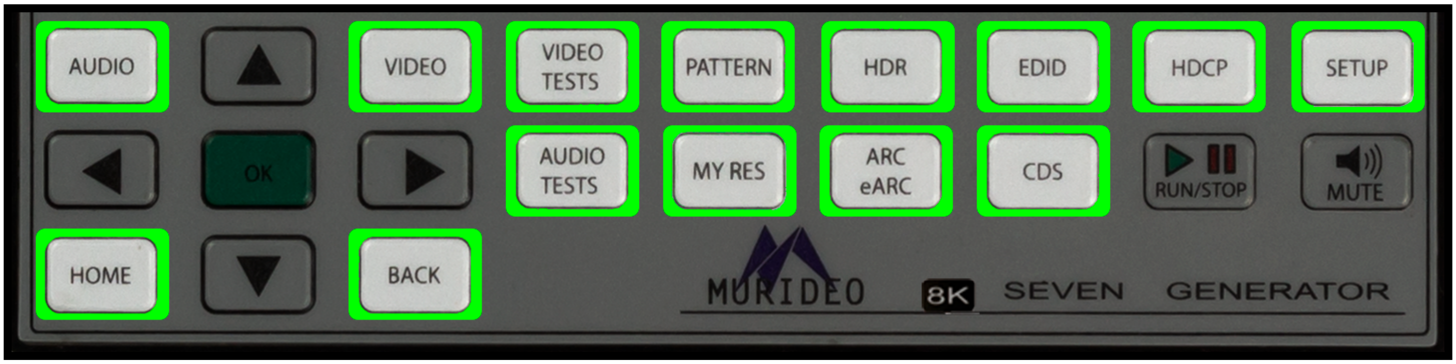
SC-1/SC-2

Shortcut Buttons

For more information see Page 24.

Navigation Shortcut Buttons

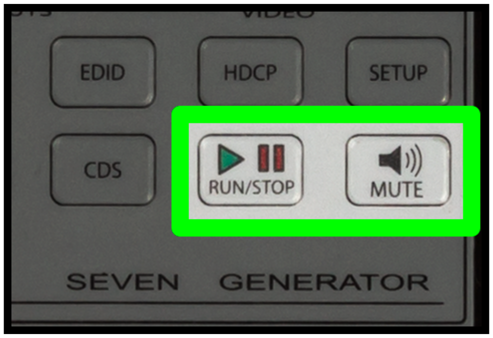
Use these buttons to quickly jump to your favorite/commonly used menus/settings.
For more information see Pages 14-21.


AUDIO
VIDEO
VIDEO TESTS
PATTERN
HDR
EDID
HDCP
SETUP
OK
AUDIO TESTS
MY RES
ARC eARC
CDS
RUN/STOP
MUTE
HOME
BACK
MURIDEO
8K
SEVEN
GENERATOR

Media Controls

RUN/STOP Button
Use this button to pause/continue video clips.

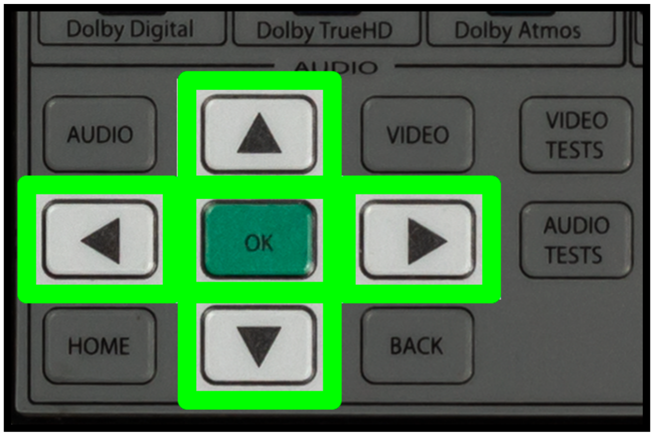
MUTE Button
Use this button to MUTE/UNMUTE the AUDIO OUTPUT of the SEVEN-G-8K.


EDID
HDCP
SETUP
CDS
RUN/STOP
MUTE
SEVEN GENERATOR

Menu Navigation

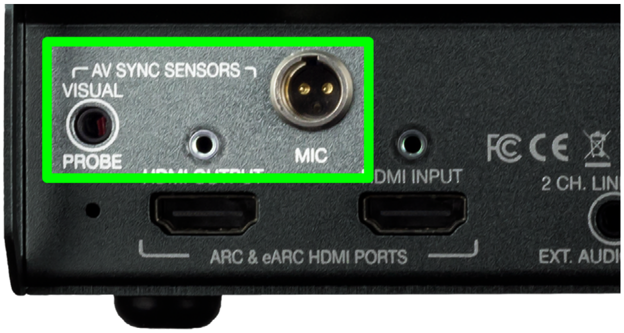
UP/DOWN/LEFT/RIGHT Buttons
These buttons are used to navigate through menus.

OK Buttons
Press this button after you have highlighted your menu item to confirm your selection.


Dolby Digital
Dolby TrueHD
Dolby Atmos
AUDIO
AUDIO
VIDEO
VIDEO TESTS
OK
AUDIO TESTS
HOME
BACK

Connections

AV SYNC SENSORS

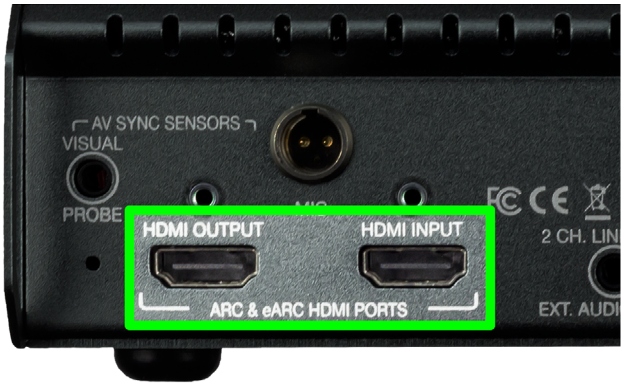


Visual Probe - connect the included light sensor for video or audio/video latency tests. After connecting the sensor to the SEVEN-G-8K, place the sensor in the middle of the display. The sensor can also be attached to a tripod if you are using it to test video or audio/video latency of a 2 piece projection system.

Microphone - This mini-XLR connection is where you connect the included microphone for audio or audio/video latency tests. After connecting the microphone to the SEVEN-G-8K, place the microphone as close to the display's speaker (or a speaker in the audio system) as possible.

NOTE: We have found extension cables that work with the visual probe and microphone. These can be used in applications where the included cables are too short. If you would like a recommendation on extension cables, feel free to email us at info@murideo.com

HDMI PORTS

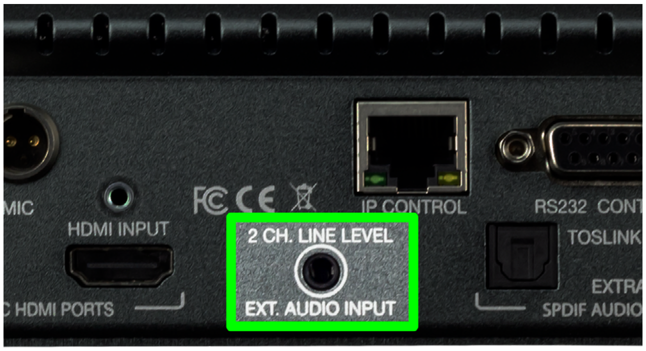


HDMI OUTPUT - Using a known good HDMI cable, connect the SEVEN-G-8K to the device you'd like to test.

HDMI INPUT - Using a known good HDMI cable, connect the SEVEN-G-8k to the source you'd like to test.

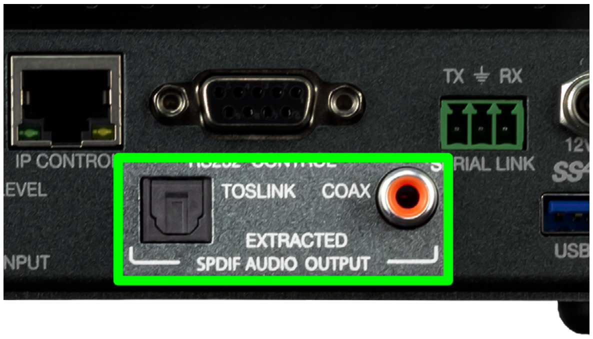
Connections Cont.

Audio INPUT


MIC
HDMI INPUT
HDMI PORTS
IP CONTROL
2 CH. LINE LEVEL
EXT. AUDIO INPUT
RS232 CONT
TOSLINK
EXTRA
SPDIF AUDIO

2 CH. LINE LEVEL EXT. AUDIO INPUT - Use this 3.5mm input to connect an external audio source to the SEVEN-G-8K. This can be used if you have audio test tones or perhaps music clips from another device.

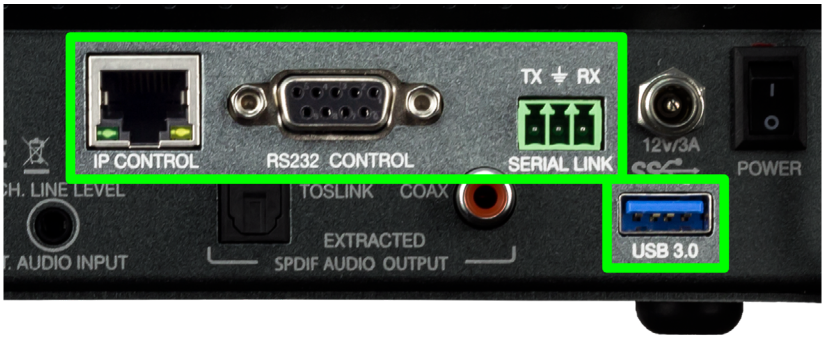
Audio OUTPUTS


TX ⏚ RX
IP CONTROL
SERIAL LINK
TOSLINK
COAX
EXTRACTED
SPDIF AUDIO OUTPUT
USB

Extracted S/PDIF Audio OUTPUT - Connect the SEVEN-G-8K to an external audio preamp, amplifier, AVR, or any other device that has an audio input. Use this to test/confirm audio signals. NOTE: This is only used to pass the extracted audio from the HDMI stream. These cannot be used as a "stand alone" audio output from the SEVEN-G-8K. There are 2 connections:

- TOSLINK
- Digital Coax

CONTROL


TX ⏚ RX
IP CONTROL
RS232 CONTROL
SERIAL LINK
12V/3A
POWER
TOSLINK
COAX
EXTRACTED
SPDIF AUDIO OUTPUT
USB 3.0
H. LINE LEVEL
AUDIO INPUT

The SEVEN-G-8K has multiple connections for control. These can be used to control the SEVEN-G-8K remotely, for FW updates, or for uploading custom test patterns, audio files, or video clips. The connections are:

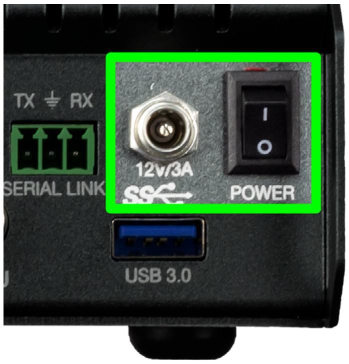
- IP Control - Use an Ethernet cable to connect the SEVEN-G-8k to a network to access the Web UI. NOTE: For this to work properly your PC must be on the same network as the SEVEN-G-8K. The default IP address is 192.168.1.239, but can be changed in the System Setup menu if needed.
- RS-232 Control - Use a DB9 cable to connect the SEVEN-G-8K to a PC. You can now remotely control the SEVEN-G-8K via RS-232 protocol. This can also be used to access and use any of the included SEVEN-G-8K software packages.
- Serial Link - Use a 3-pin terminal to connect the SEVEN-G-8K to a PC. You can now remotely

control the SEVEN-G-8K via RS-232 protocol. This can also be used to access and use any of the included SEVEN-G-8K software packages.

- USB 3.0 - Use a USB cable to connect the SEVEN-G-8K to a PC. . You can now remotely control the SEVEN-G-8K via RS-232 protocol. This can also be used to access and use any of the included SEVEN-G-8K software packages.

NOTE: You MUST use the USB connection for uploading custom test patterns, audio files, or video clips. If loading FW you can use whichever control connection is most convenient to you.

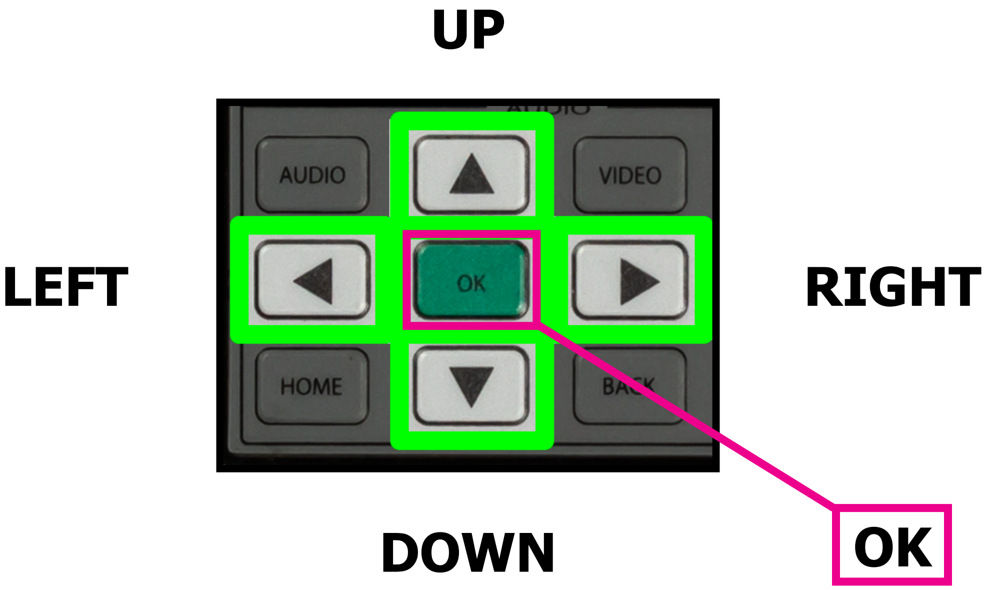
POWER



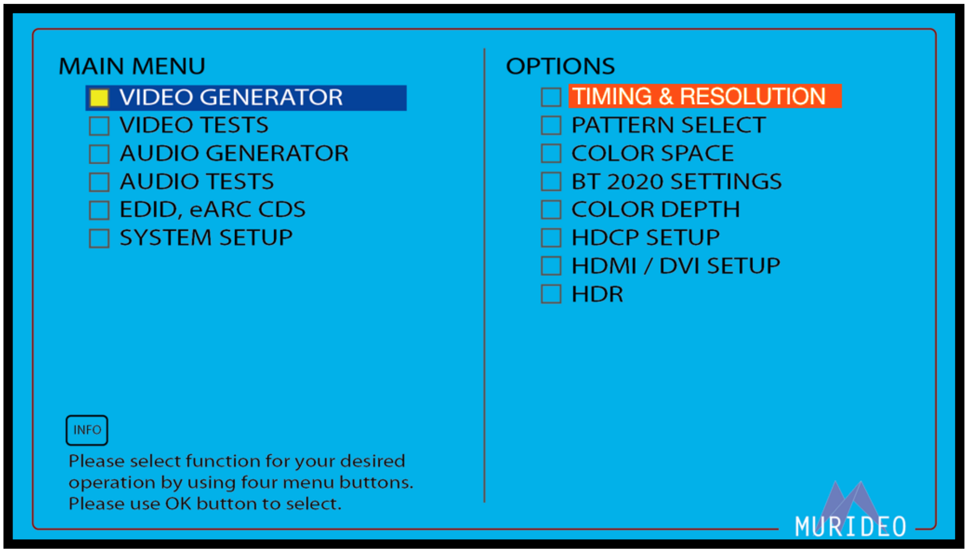
- 12V/3A - Here is where you connect the SEVEN-G-8K's power supply. NOTE: Only use the included power supply.
- POWER SWITCH - This a simple ON/OFF switch to power the SEVEN-G-8K off (down position) or ON (up position).

Navigation Tutorial

If this is your first time using the SEVEN-G-8K take a few moments to learn how to navigate through the SEVEN-G-8K's menu system. In this example we are going to select a DVS HDR Evaluation test pattern, then a Chroma Sub 500 test pattern.



1. Verify that your SEVEN-G-8K is Powered OFF.
2. Connect a high-performance HDMI cable to your SEVEN-G-8K's "HDMI OUTPUT" port to an "HDMI INPUT" of an HDR10 compatible display.
3. Power Up the SEVEN-G-8K using the On/Off switch.
4. Starting from the MAIN MENU screen (this is the default menu when you power on, or you can press the HOME shortcut button to get to the MAIN MENU). Use the UP/DOWN ARROW buttons and highlight the "VIDEO GENERATOR" menu.
5. Press the GREEN "OK" button.
6. Looking at the right side of the screen, notice that the "TIMING & RESOLUTION" OPTION is now highlighted in ORANGE.



MAIN MENU

■ VIDEO GENERATOR
☐ VIDEO TESTS
☐ AUDIO GENERATOR
☐ AUDIO TESTS
☐ EDID, eARC CDS
☐ SYSTEM SETUP

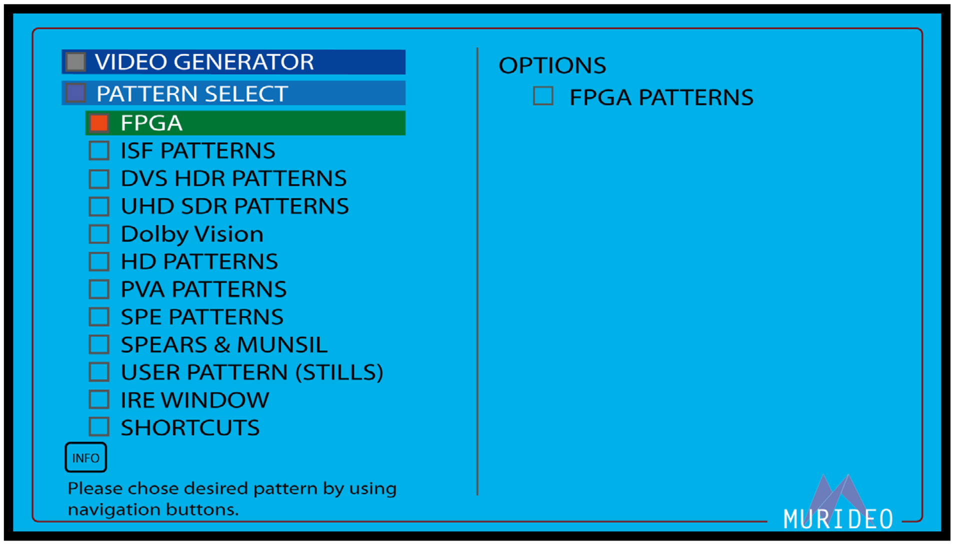
OPTIONS

☐ TIMING & RESOLUTION
☐ PATTERN SELECT
☐ COLOR SPACE
☐ BT 2020 SETTINGS
☐ COLOR DEPTH
☐ HDCP SETUP
☐ HDMI / DVI SETUP
☐ HDR

INFO

Please select function for your desired operation by using four menu buttons. Please use OK button to select.

7. Press the "ARROW DOWN" button to highlight "PATTERN SELECT".
8. Press the GREEN "OK" button.



■ VIDEO GENERATOR
■ PATTERN SELECT
■ FPGA
☐ ISF PATTERNS
☐ DVS HDR PATTERNS
☐ UHD SDR PATTERNS
☐ Dolby Vision
☐ HD PATTERNS
☐ PVA PATTERNS
☐ SPE PATTERNS
☐ SPEARS & MUNSIL
☐ USER PATTERN (STILLS)
☐ IRE WINDOW
☐ SHORTCUTS

OPTIONS

☐ FPGA PATTERNS

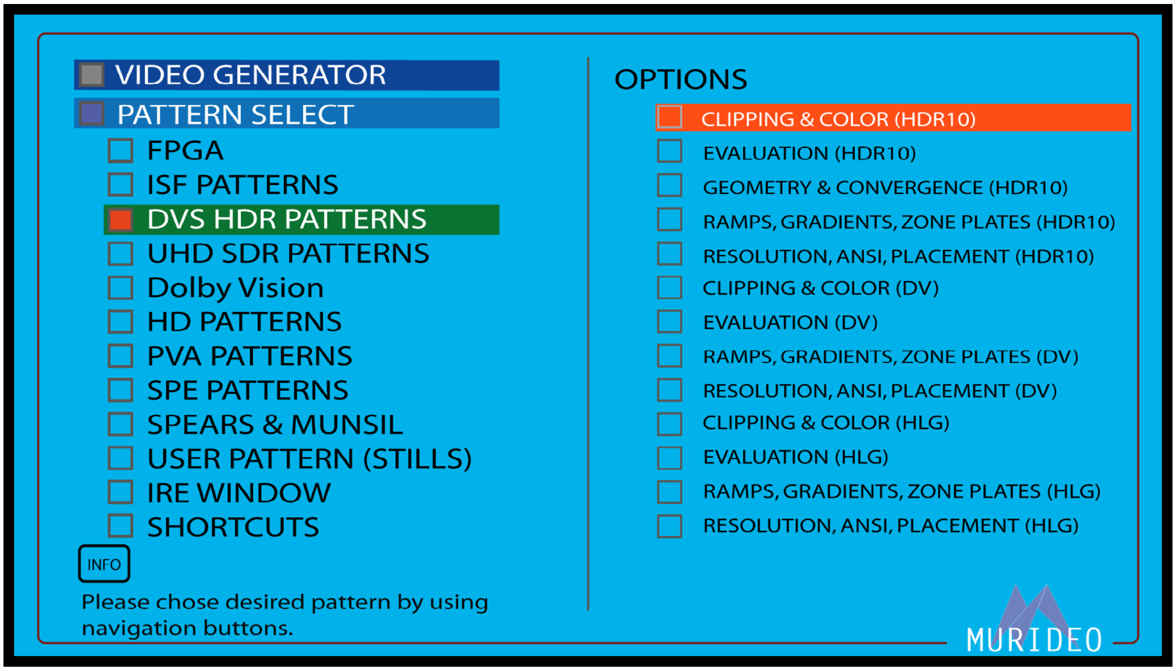
INFO

Please chose desired pattern by using navigation buttons.

9. Looking at the left side of the screen, notice new sub-menu selections under the "VIDEO GENERATOR" / "PATTERN SELECT" menu tree.
10. Arrow Down and highlight the "DVS HDR PATTERNS" menu item.

11. Press the GREEN "OK" button.

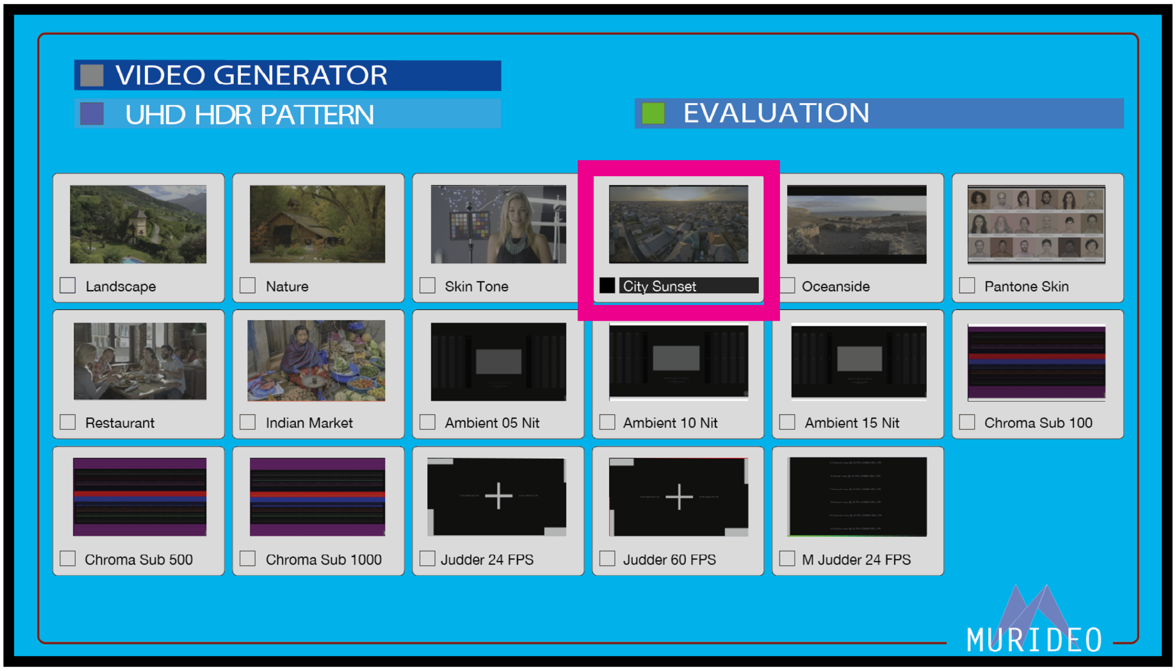
12. On the right side of the screen, notice that the "CLIPPING & COLOR" OPTION is now highlighted in ORANGE.


VIDEO GENERATOR
PATTERN SELECT
☐ FPGA
☐ ISF PATTERNS
☐ DVS HDR PATTERNS
☐ UHD SDR PATTERNS
☐ Dolby Vision
☐ HD PATTERNS
☐ PVA PATTERNS
☐ SPE PATTERNS
☐ SPEARS & MUNSIL
☐ USER PATTERN (STILLS)
☐ IRE WINDOW
☐ SHORTCUTS
INFO
OPTIONS
☐ CLIPPING & COLOR (HDR10)
☐ EVALUATION (HDR10)
☐ GEOMETRY & CONVERGENCE (HDR10)
☐ RAMPS, GRADIENTS, ZONE PLATES (HDR10)
☐ RESOLUTION, ANSI, PLACEMENT (HDR10)
☐ CLIPPING & COLOR (DV)
☐ EVALUATION (DV)
☐ RAMPS, GRADIENTS, ZONE PLATES (DV)
☐ RESOLUTION, ANSI, PLACEMENT (DV)
☐ CLIPPING & COLOR (HLG)
☐ EVALUATION (HLG)
☐ RAMPS, GRADIENTS, ZONE PLATES (HLG)
☐ RESOLUTION, ANSI, PLACEMENT (HLG)
MURIDEO

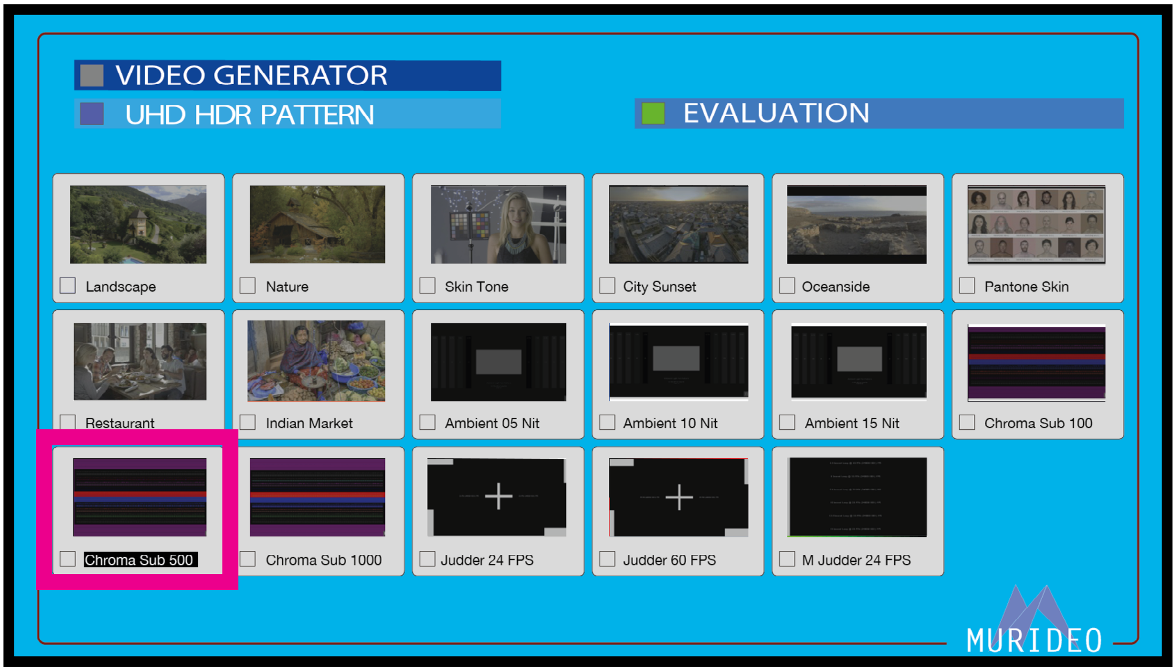
Please chose desired pattern by using navigation buttons.

13. Arrow Down and highlight the "EVALUATION" OPTION.

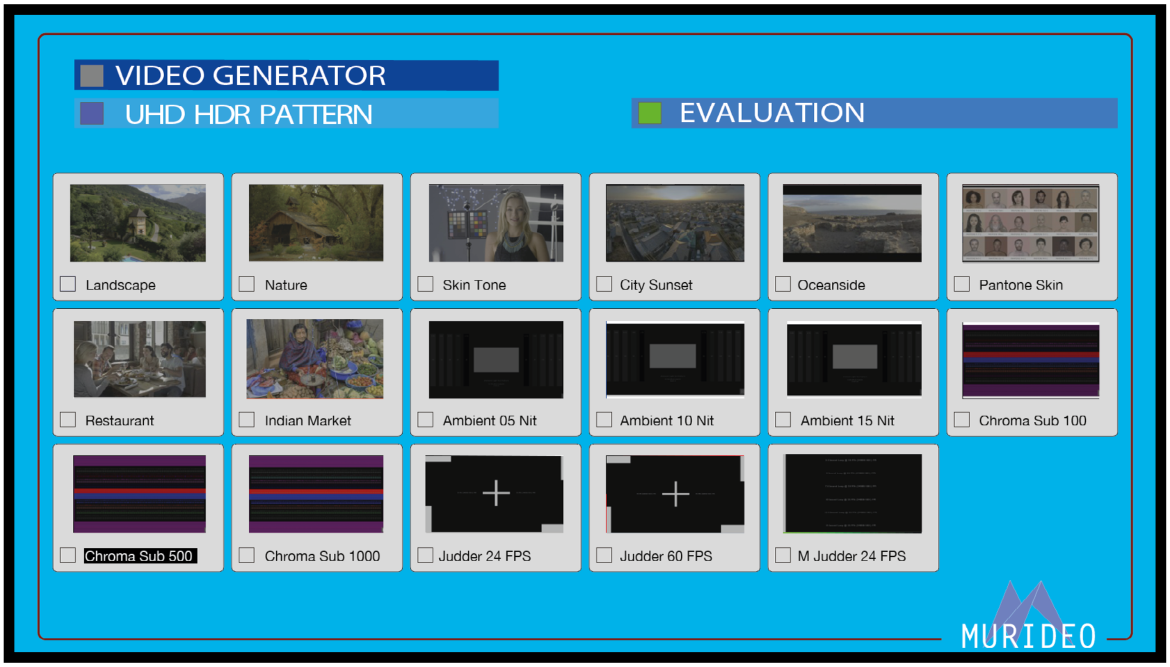
14. Press the GREEN "OK" button.


VIDEO GENERATOR
UHD HDR PATTERN
EVALUATION
☐ Landscape
☐ Nature
☐ Skin Tone
■ City Sunset
☐ Oceanside
☐ Pantone Skin
☐ Restaurant
☐ Indian Market
☐ Ambient 05 Nit
☐ Ambient 10 Nit
☐ Ambient 15 Nit
☐ Chroma Sub 100
☐ Chroma Sub 500
☐ Chroma Sub 1000
☐ Judder 24 FPS
☐ Judder 60 FPS
☐ M Judder 24 FPS
MURIDEO

15. Press the "RIGHT ARROW" button until the "City Sunset" test pattern is highlighted in BLACK, then press the GREEN "OK" button to select. The "City Sunset" test pattern should now be visible on the display that you have your SEVEN-G-8K plugged into.


VIDEO GENERATOR
UHD HDR PATTERN
EVALUATION
☐ Landscape
☐ Nature
☐ Skin Tone
☐ City Sunset
☐ Oceanside
☐ Pantone Skin
☐ Restaurant
☐ Indian Market
☐ Ambient 05 Nit
☐ Ambient 10 Nit
☐ Ambient 15 Nit
☐ Chroma Sub 100
☐ Chroma Sub 500
☐ Chroma Sub 1000
☐ Judder 24 FPS
☐ Judder 60 FPS
☐ M Judder 24 FPS
MURIDEO

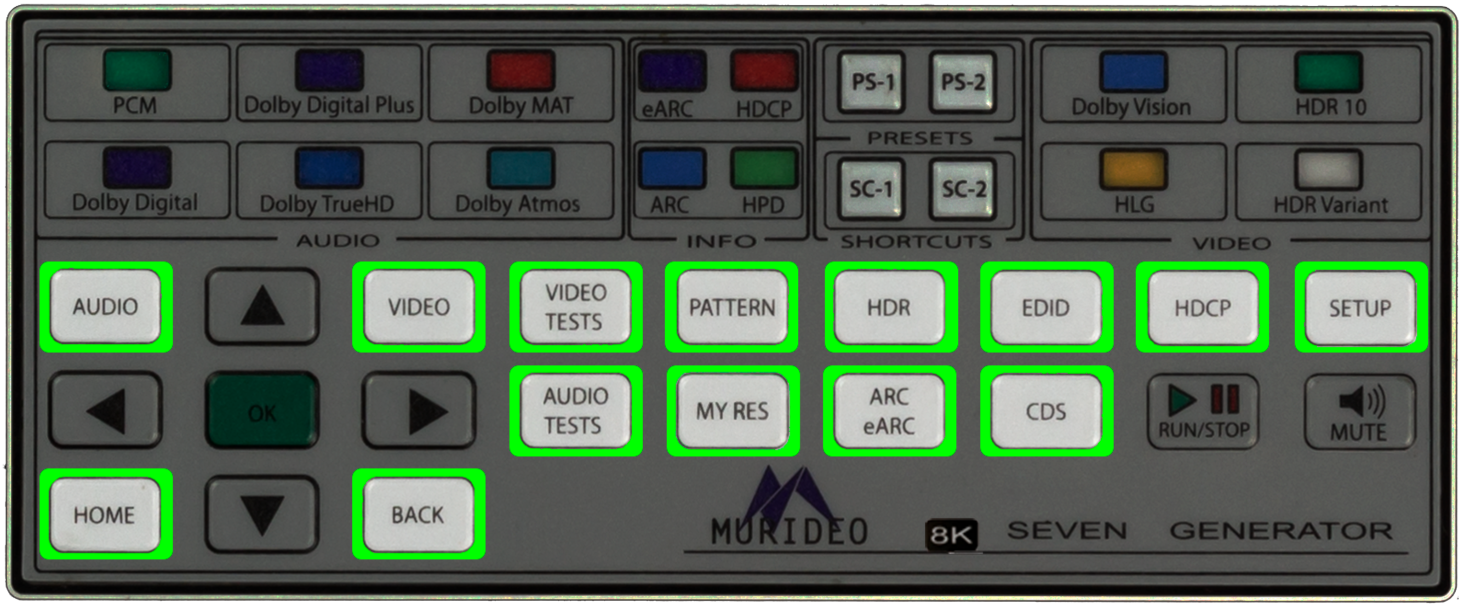
16. Use the navigation arrow buttons to highlight the "Chroma Sub 500" pattern in BLACK.
17. Press the GREEN "OK" button to select.

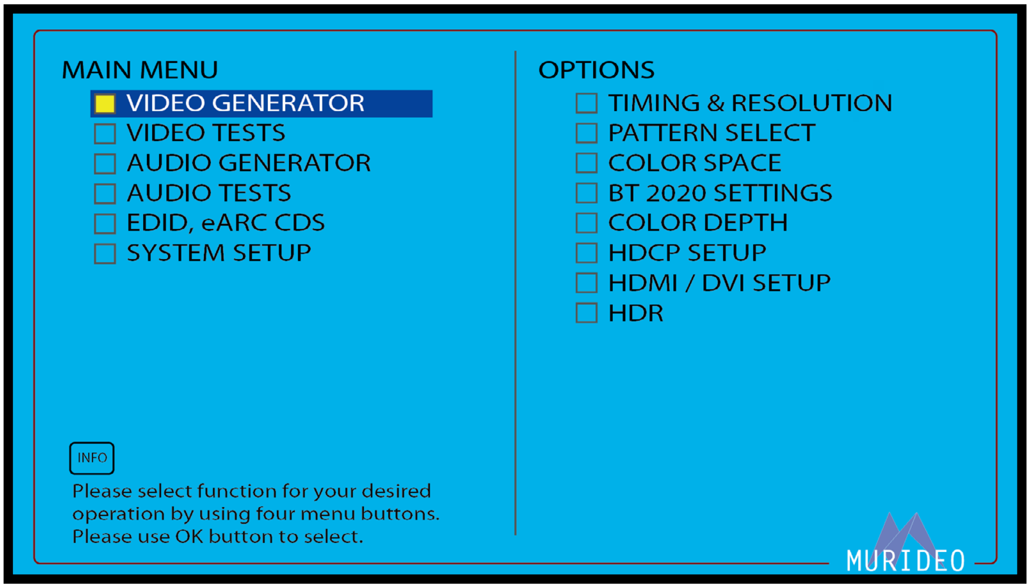

VIDEO GENERATOR
UHD HDR PATTERN
EVALUATION
☐ Landscape
☐ Nature
☐ Skin Tone
☐ City Sunset
☐ Oceanside
☐ Pantone Skin
☐ Restaurant
☐ Indian Market
☐ Ambient 05 Nit
☐ Ambient 10 Nit
☐ Ambient 15 Nit
☐ Chroma Sub 100
☐ Chroma Sub 500
☐ Chroma Sub 1000
☐ Judder 24 FPS
☐ Judder 60 FPS
☐ M Judder 24 FPS
MURIDEO

18. Select any other patterns you might like to look at. When you are finished exploring, press the "BACK" button several times OR press the "HOME" button to jump back to the "MAIN MENU" screen.

Front Panel: Shortcut Buttons

The following pages cover the SEVEN-G-8K's shortcut buttons.


PCM
Dolby Digital Plus
Dolby MAT
eARC
HDCP
PS-1
PS-2
Dolby Vision
HDR 10
Dolby Digital
Dolby TrueHD
Dolby Atmos
ARC
HPD
PRESETS
SC-1
SC-2
HLG
HDR Variant
AUDIO
INFO
SHORTCUTS
VIDEO
AUDIO
VIDEO
VIDEO TESTS
PATTERN
HDR
EDID
HDCP
SETUP
OK
AUDIO TESTS
MY RES
ARC eARC
CDS
RUN/STOP
MUTE
HOME
BACK
MURIDEO
8K
SEVEN
GENERATOR



MAIN MENU

■ VIDEO GENERATOR
☐ VIDEO TESTS
☐ AUDIO GENERATOR
☐ AUDIO TESTS
☐ EDID, eARC CDS
☐ SYSTEM SETUP

OPTIONS

☐ TIMING & RESOLUTION
☐ PATTERN SELECT
☐ COLOR SPACE
☐ BT 2020 SETTINGS
☐ COLOR DEPTH
☐ HDCP SETUP
☐ HDMI / DVI SETUP
☐ HDR

INFO

Please select function for your desired operation by using four menu buttons. Please use OK button to select.

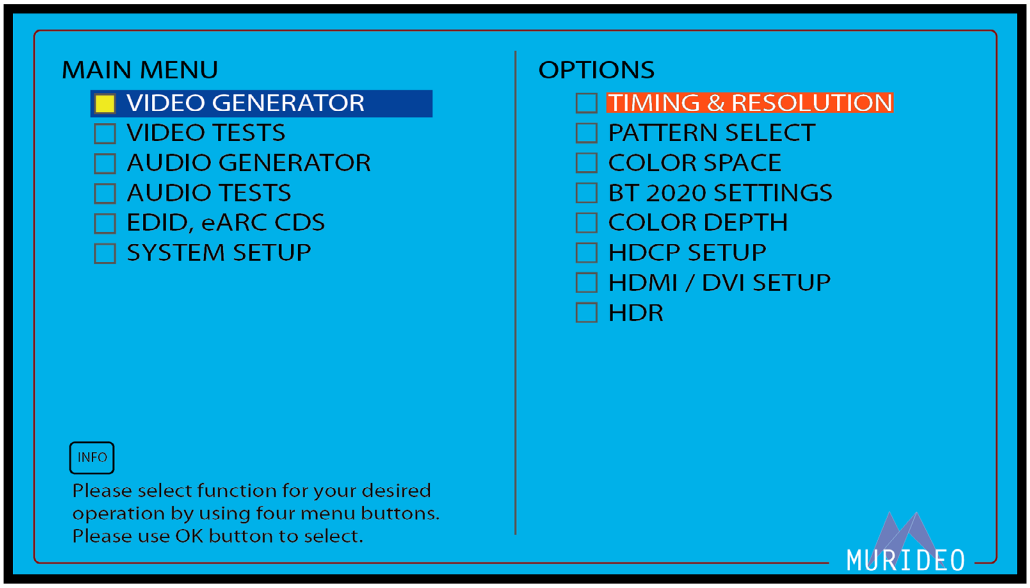
MURIDEO

HOME

Pressing the "HOME" button will jump to the SEVEN-G-8K's Main Menu.

Note: This is the default menu when the SEVEN-G-8K is powered on.

VIDEO
VIDEO TESTS
AUDIO TESTS



MAIN MENU
■ VIDEO GENERATOR
☐ VIDEO TESTS
☐ AUDIO GENERATOR
☐ AUDIO TESTS
☐ EDID, eARC CDS
☐ SYSTEM SETUP

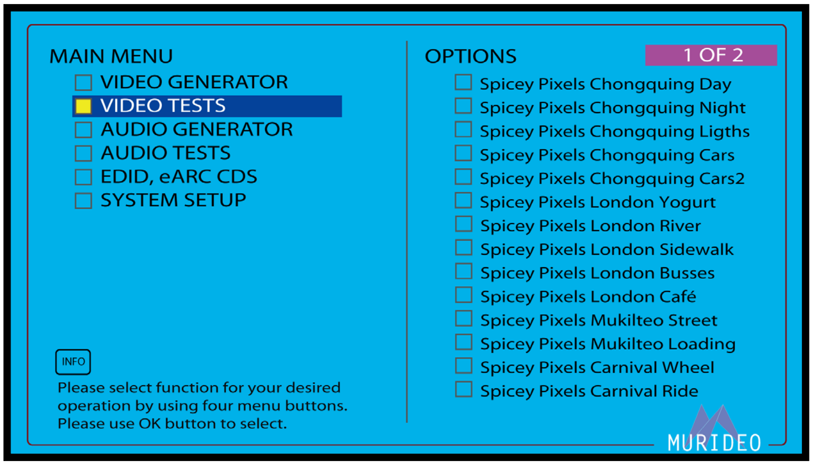
OPTIONS
☐ TIMING & RESOLUTION
☐ PATTERN SELECT
☐ COLOR SPACE
☐ BT 2020 SETTINGS
☐ COLOR DEPTH
☐ HDCP SETUP
☐ HDMI / DVI SETUP
☐ HDR

INFO
Please select function for your desired operation by using four menu buttons. Please use OK button to select.

MURIDEO

VIDEO

Pressing the “VIDEO” button will jump to the Video Generator menu. Here you can select and change the output settings. See Pages 24-30 for more details.



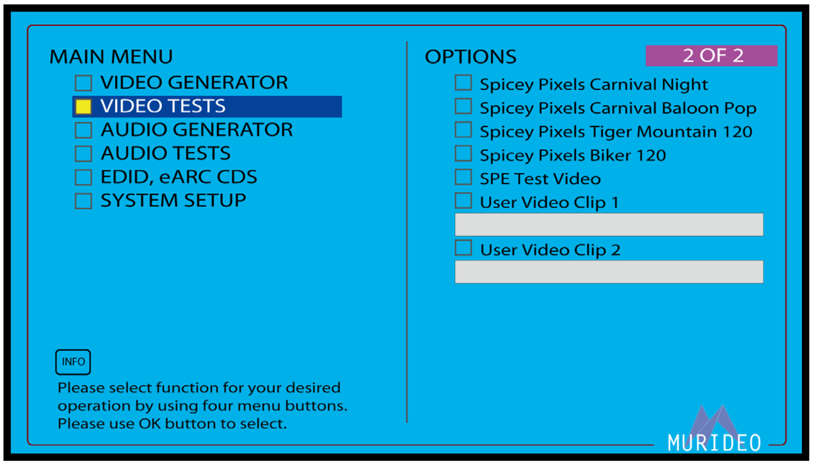
MAIN MENU
☐ VIDEO GENERATOR
■ VIDEO TESTS
☐ AUDIO GENERATOR
☐ AUDIO TESTS
☐ EDID, eARC CDS
☐ SYSTEM SETUP

OPTIONS 1 OF 2
☐ Spicey Pixels Chongquing Day
☐ Spicey Pixels Chongquing Night
☐ Spicey Pixels Chongquing Ligths
☐ Spicey Pixels Chongquing Cars
☐ Spicey Pixels Chongquing Cars2
☐ Spicey Pixels London Yogurt
☐ Spicey Pixels London River
☐ Spicey Pixels London Sidewalk
☐ Spicey Pixels London Busses
☐ Spicey Pixels London Café
☐ Spicey Pixels Mukilteo Street
☐ Spicey Pixels Mukilteo Loading
☐ Spicey Pixels Carnival Wheel
☐ Spicey Pixels Carnival Ride

INFO
Please select function for your desired operation by using four menu buttons. Please use OK button to select.

MURIDEO

VIDEO TESTS
PATTERN
AUDIO TESTS
MY RES



MAIN MENU
☐ VIDEO GENERATOR
■ VIDEO TESTS
☐ AUDIO GENERATOR
☐ AUDIO TESTS
☐ EDID, eARC CDS
☐ SYSTEM SETUP

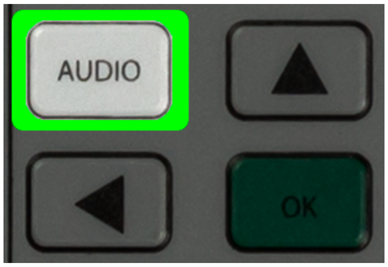
OPTIONS 2 OF 2
☐ Spicey Pixels Carnival Night
☐ Spicey Pixels Carnival Baloon Pop
☐ Spicey Pixels Tiger Mountain 120
☐ Spicey Pixels Biker 120
☐ SPE Test Video
☐ User Video Clip 1
☐ User Video Clip 2

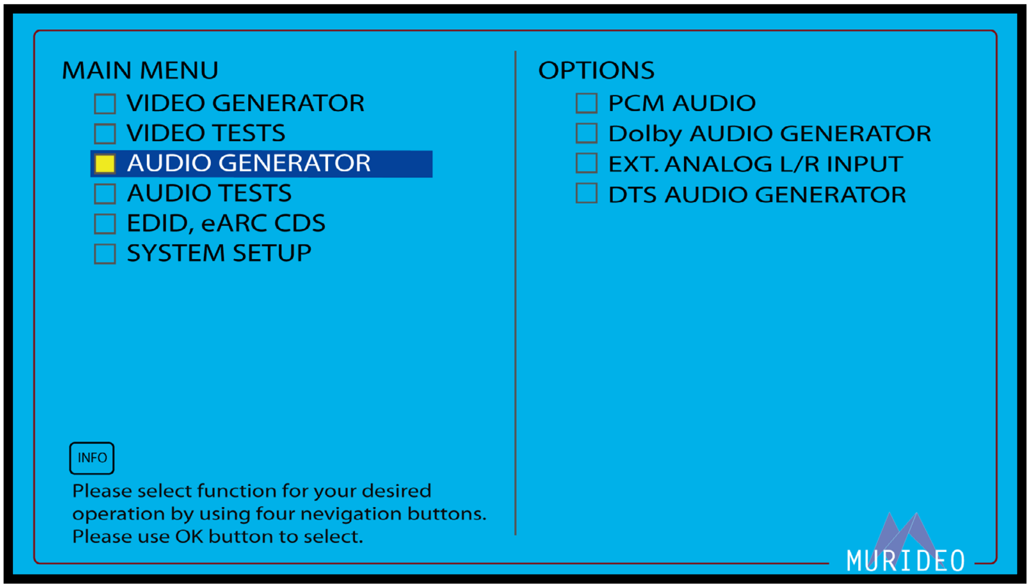
INFO
Please select function for your desired operation by using four menu buttons. Please use OK button to select.

MURIDEO

VIDEO TESTS

Pressing the “VIDEO TESTS” button will jump to the Video Tests menu. See Page 31 for more details.




MAIN MENU
☐ VIDEO GENERATOR
☐ VIDEO TESTS
■ AUDIO GENERATOR
☐ AUDIO TESTS
☐ EDID, eARC CDS
☐ SYSTEM SETUP
OPTIONS
☐ PCM AUDIO
☐ Dolby AUDIO GENERATOR
☐ EXT. ANALOG L/R INPUT
☐ DTS AUDIO GENERATOR
INFO
MURIDEO

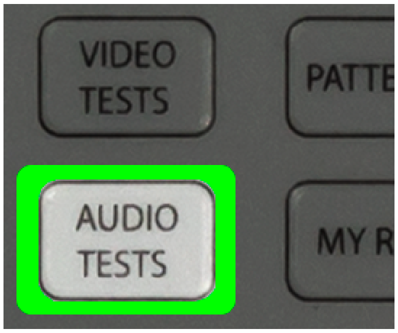
Please select function for your desired
operation by using four nevigation buttons.
Please use OK button to select.

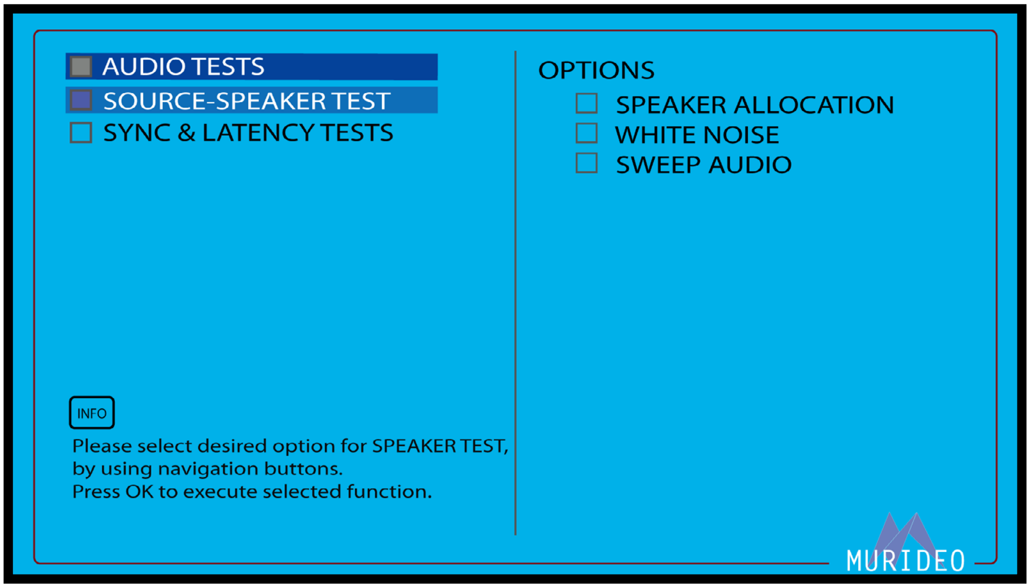
AUDIO

Pressing the "AUDIO" button will jump to the Audio Generator menu. See Page 32-34 for more details.

AUDIO TESTS

Pressing the "AUDIO TESTS" button will jump to the Audio Tests menu. See Page 32-39 for more details.

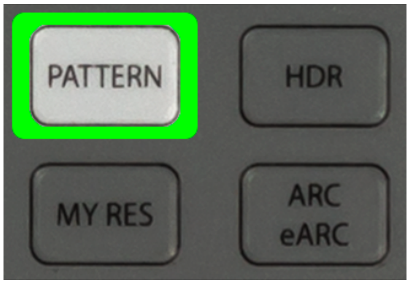

VIDEO TESTS
PATTE
AUDIO TESTS
MY R

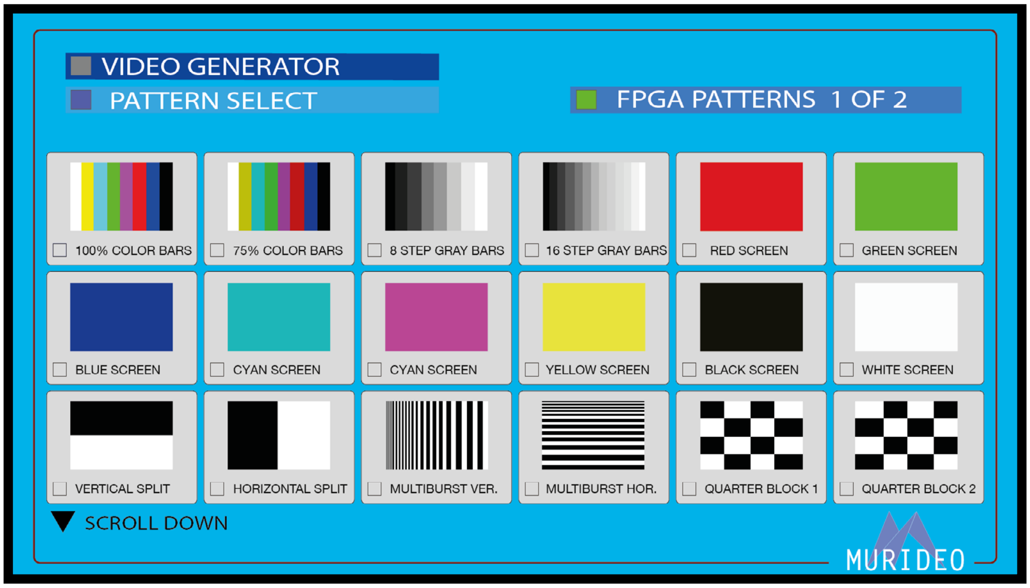

■ AUDIO TESTS
■ SOURCE-SPEAKER TEST
☐ SYNC & LATENCY TESTS
OPTIONS
☐ SPEAKER ALLOCATION
☐ WHITE NOISE
☐ SWEEP AUDIO
INFO
MURIDEO

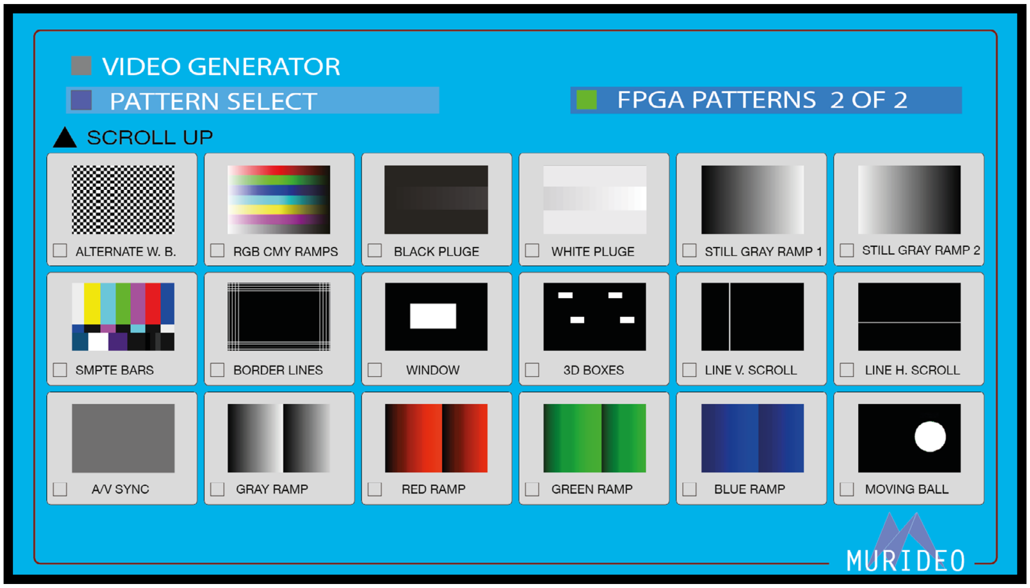
Please select desired option for SPEAKER TEST,
by using navigation buttons.
Press OK to execute selected function.

PATTERN

Pressing the “PATTERN” button will jump to the FPGA Pattern select menu. See Page 24-28 for more details.


PATTERN
HDR
MY RES
ARC
eARC

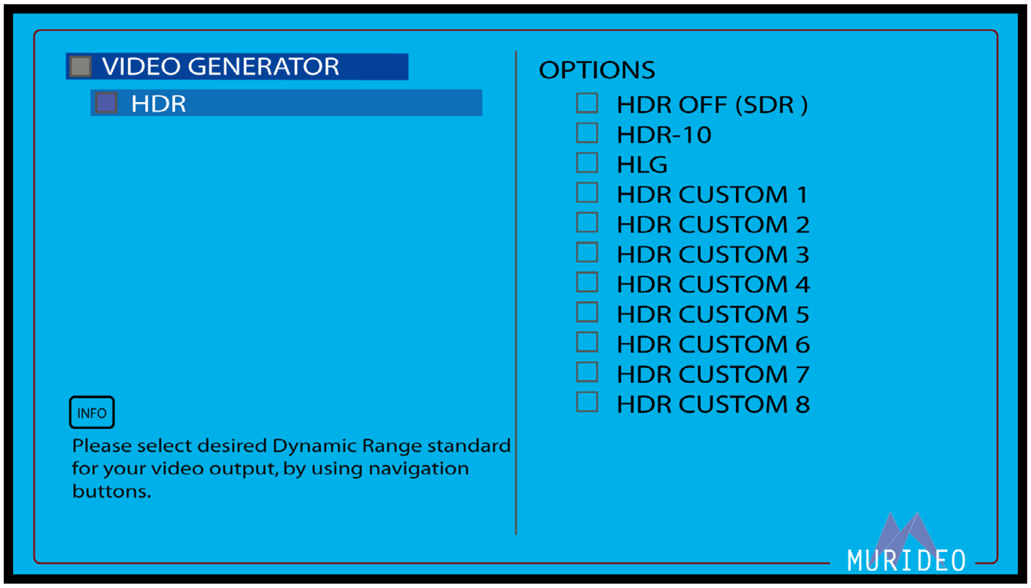

VIDEO GENERATOR
PATTERN SELECT
FPGA PATTERNS 1 OF 2
☐ 100% COLOR BARS
☐ 75% COLOR BARS
☐ 8 STEP GRAY BARS
☐ 16 STEP GRAY BARS
☐ RED SCREEN
☐ GREEN SCREEN
☐ BLUE SCREEN
☐ CYAN SCREEN
☐ CYAN SCREEN
☐ YELLOW SCREEN
☐ BLACK SCREEN
☐ WHITE SCREEN
☐ VERTICAL SPLIT
☐ HORIZONTAL SPLIT
☐ MULTIBURST VER.
☐ MULTIBURST HOR.
☐ QUARTER BLOCK 1
☐ QUARTER BLOCK 2
▼ SCROLL DOWN
MURIDEO


VIDEO GENERATOR
PATTERN SELECT
FPGA PATTERNS 2 OF 2
▲ SCROLL UP
☐ ALTERNATE W. B.
☐ RGB CMY RAMPS
☐ BLACK PLUGE
☐ WHITE PLUGE
☐ STILL GRAY RAMP 1
☐ STILL GRAY RAMP 2
☐ SMPTE BARS
☐ BORDER LINES
☐ WINDOW
☐ 3D BOXES
☐ LINE V. SCROLL
☐ LINE H. SCROLL
☐ A/V SYNC
☐ GRAY RAMP
☐ RED RAMP
☐ GREEN RAMP
☐ BLUE RAMP
☐ MOVING BALL
MURIDEO

For a detailed list of the available test patterns and a description of each, visit w

HDR
EDID
ARC
eARC
CDS

HDR

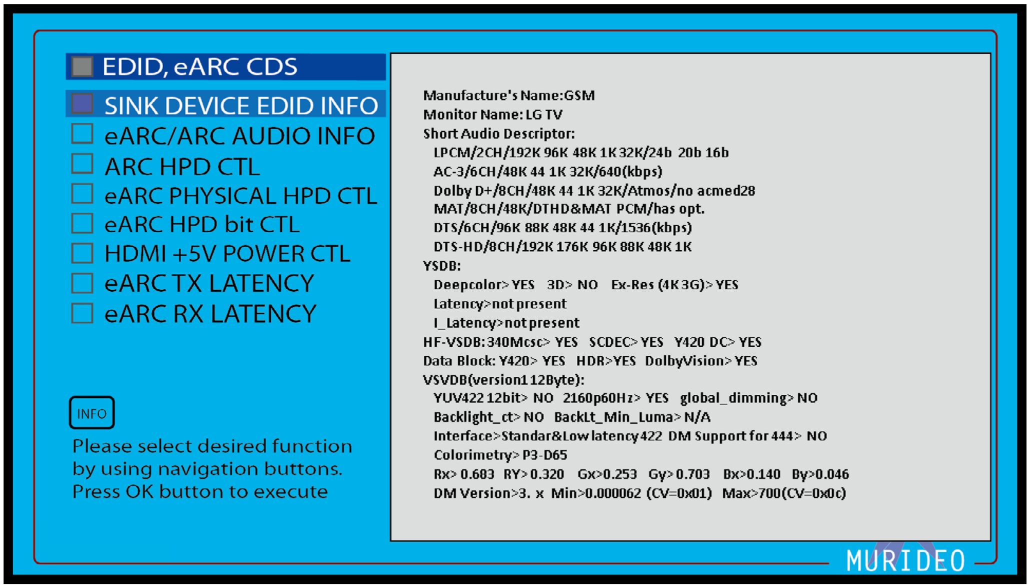

VIDEO GENERATOR
HDR
OPTIONS
☐ HDR OFF (SDR)
☐ HDR-10
☐ HLG
☐ HDR CUSTOM 1
☐ HDR CUSTOM 2
☐ HDR CUSTOM 3
☐ HDR CUSTOM 4
☐ HDR CUSTOM 5
☐ HDR CUSTOM 6
☐ HDR CUSTOM 7
☐ HDR CUSTOM 8
INFO
MURIDEO

Please select desired Dynamic Range standard for your video output, by using navigation buttons.

Pressing the “HDR” button will jump to the HDR menu.
See Page 31 for more details.

EDID
HDCP
CDS
RUN/ST

EDID

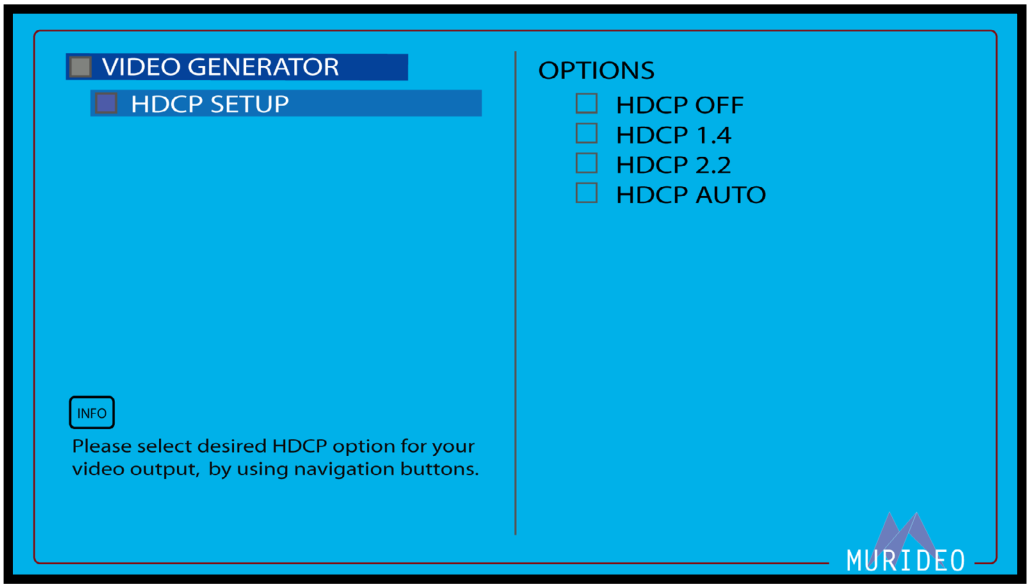

EDID, eARC CDS
SINK DEVICE EDID INFO
☐ eARC/ARC AUDIO INFO
☐ ARC HPD CTL
☐ eARC PHYSICAL HPD CTL
☐ eARC HPD bit CTL
☐ HDMI +5V POWER CTL
☐ eARC TX LATENCY
☐ eARC RX LATENCY
INFO
MURIDEO

Please select desired function by using navigation buttons. Press OK button to execute

```
Manufacture's Name:GSM
Monitor Name: LG TV
Short Audio Descriptor:
  LPCM/2CH/192K 96K 48K 1K 32K/24b  20b 16b
  AC-3/6CH/48K 44 1K 32K/640(kbps)
  Dolby D+/8CH/48K 44 1K 32K/Atmos/no acmed28
  MAT/8CH/48K/DTHD&MAT PCM/has opt.
  DTS/6CH/96K 88K 48K 44 1K/1536(kbps)
  DTS-HD/8CH/192K 176K 96K 88K 48K 1K
YSDB:
  Deepcolor> YES   3D> NO   Ex-Res (4K 3G)> YES
  Latency>not present
  I_Latency>not present
HF-VSDB: 340Mcsc> YES   SCDEC> YES   Y420 DC> YES
Data Block: Y420> YES   HDR>YES   DolbyVision> YES
VSVDB(version1 12Byte):
  YUV422 12bit> NO   2160p60Hz> YES   global_dimming> NO
  Backlight_ct> NO   BackLt_Min_Luma> N/A
  Interface>Standar&Low latency 422  DM Support for 444> NO
  Colorimetry> P3-D65
  Rx> 0.683   RY> 0.320   Gx>0.253   Gy> 0.703   Bx>0.140   By>0.046
  DM Version>3. x  Min>0.000062 (CV=0x01)   Max>700(CV=0x0c)
```

Pressing the “EDID” shortcut button jump to the EDID, eARC, CDS menu. See Page 48 for more details.

HDCP
SETU
RUN/STOP
MUT

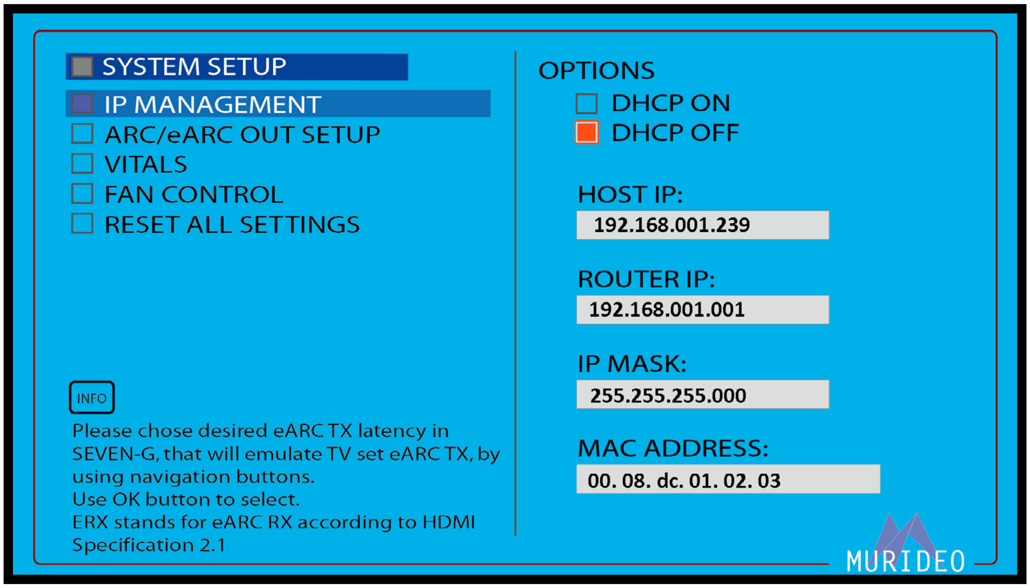

VIDEO GENERATOR
HDCP SETUP
OPTIONS
☐ HDCP OFF
☐ HDCP 1.4
☐ HDCP 2.2
☐ HDCP AUTO
INFO
MURIDEO

Please select desired HDCP option for your video output, by using navigation buttons.

HDCP

Pressing the HDCP shortcut button will jump to the HDCP Setup menu. See Page 30 for more details.

HDCP
SETUP
RUN/STOP
MUTE


SYSTEM SETUP
IP MANAGEMENT
☐ ARC/eARC OUT SETUP
☐ VITALS
☐ FAN CONTROL
☐ RESET ALL SETTINGS
OPTIONS
INFO
MURIDEO

☐ DHCP ON
🟥 DHCP OFF

HOST IP: 192.168.001.239

ROUTER IP: 192.168.001.001

IP MASK: 255.255.255.000

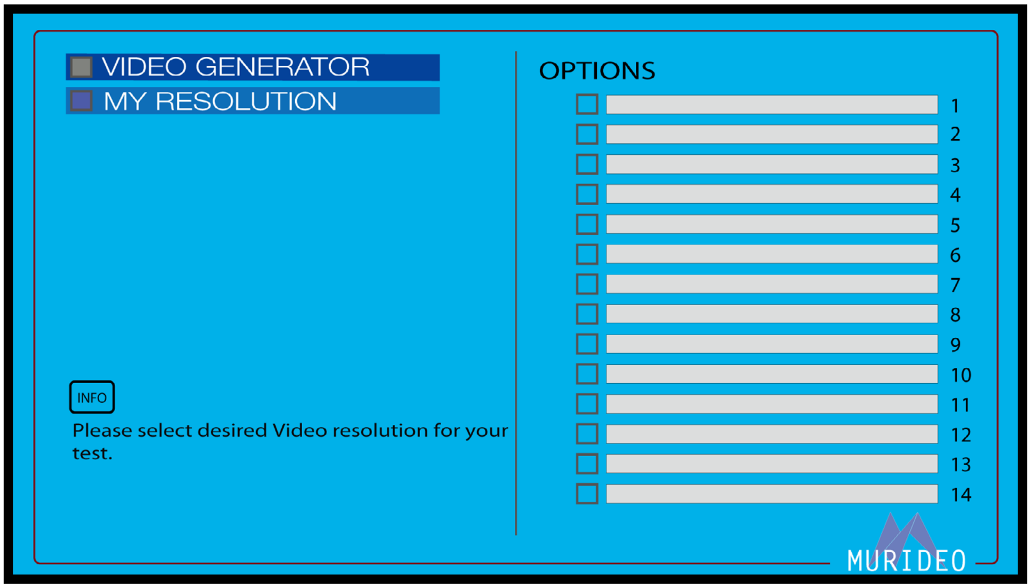
MAC ADDRESS: 00. 08. dc. 01. 02. 03

Please chose desired eARC TX latency in SEVEN-G, that will emulate TV set eARC TX, by using navigation buttons.
Use OK button to select.
ERX stands for eARC RX according to HDMI Specification 2.1

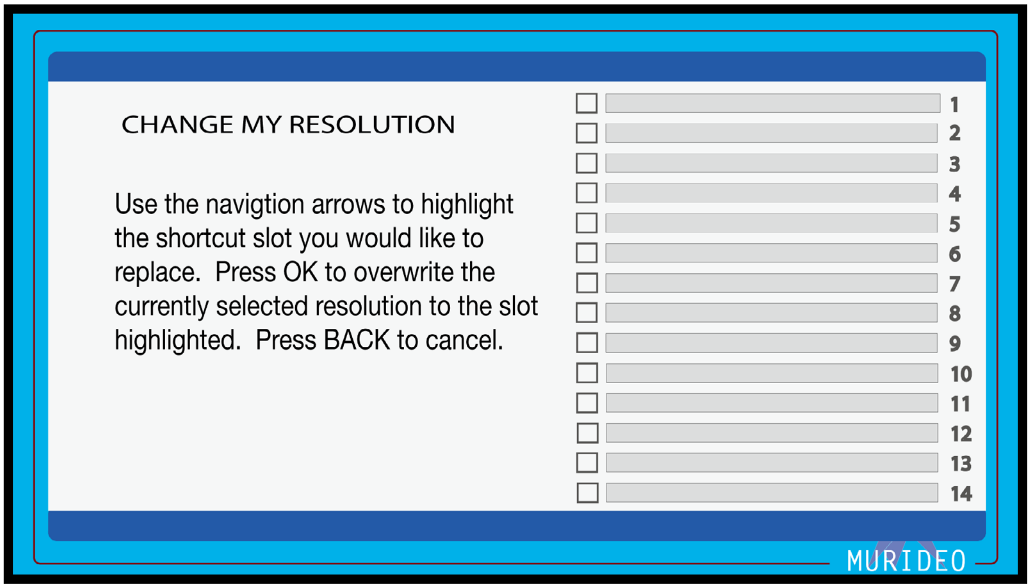
SETUP

Pressing the Setup shortcut button will jump to the System Setup menu. See Page 51 for more details.

PATTERN
HDR
MY RES
ARC
eARC


VIDEO GENERATOR
MY RESOLUTION
OPTIONS
1
2
3
4
5
6
7
8
9
10
11
12
13
14
INFO
MURIDEO

Please select desired Video resolution for your test.


1
2
3
4
5
6
7
8
9
10
11
12
13
14
MURIDEO

CHANGE MY RESOLUTION

Use the navigtion arrows to highlight the shortcut slot you would like to replace. Press OK to overwrite the currently selected resolution to the slot highlighted. Press BACK to cancel.

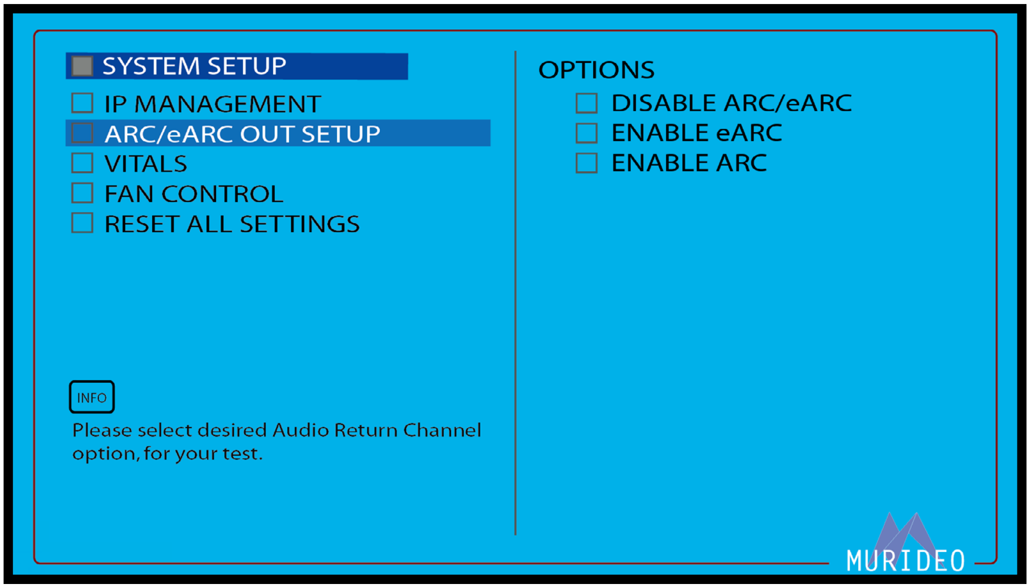
MY RES

Pressing the My Res shortcut button will jump to the My Resolutions menu. In order to save a specific resolution/timing, first choose a resolution/timing from the TIMING & RESOLUTION menu. For example:

- Select (for example7680x4320@30Hz)
- Press and hold the OK button for 3 seconds
- This jumps to the CHANGE MY RESOLUTION menu
- Use the UP/DOWN arrows to select a slot (1-14)
- Press the OK button to set/confirm

NOTE: For detailed instructions see the "Using Shortcuts" user guide located at www.murideo.com

HDR
EDID
ARC eARC
CDS

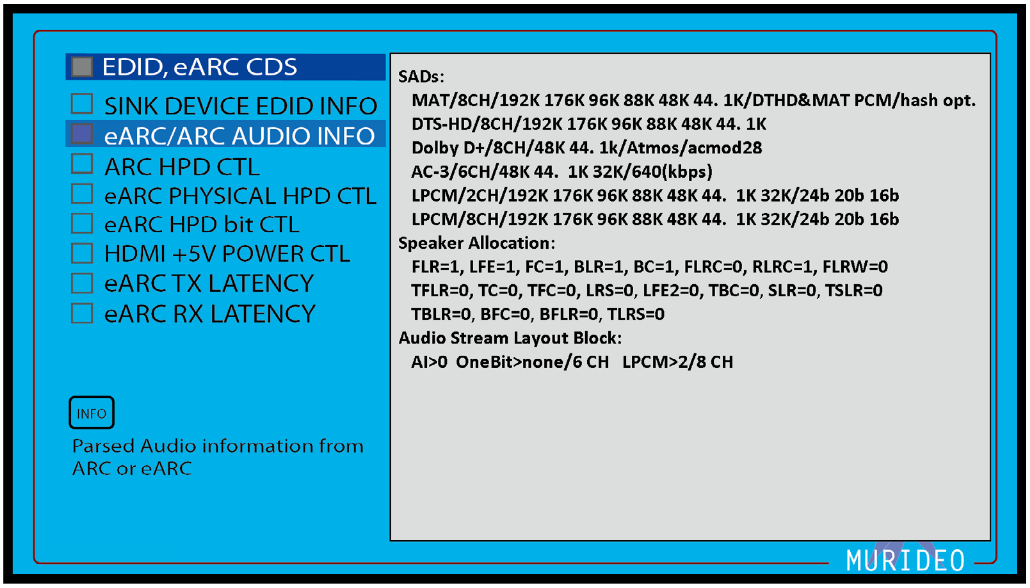

SYSTEM SETUP
☐ IP MANAGEMENT
☐ ARC/eARC OUT SETUP
☐ VITALS
☐ FAN CONTROL
☐ RESET ALL SETTINGS
OPTIONS
☐ DISABLE ARC/eARC
☐ ENABLE eARC
☐ ENABLE ARC
INFO
MURIDEO

Please select desired Audio Return Channel option, for your test.

ARC / eARC

Pressing the ARC/eARC shortcut button will jump to the ARC/eARC Output setup menu. See Page 51 for more details.

EDID
HDCP
CDS
RUN/STOP


EDID, eARC CDS
☐ SINK DEVICE EDID INFO
☐ eARC/ARC AUDIO INFO
☐ ARC HPD CTL
☐ eARC PHYSICAL HPD CTL
☐ eARC HPD bit CTL
☐ HDMI +5V POWER CTL
☐ eARC TX LATENCY
☐ eARC RX LATENCY
INFO
MURIDEO

```
SADs:
  MAT/8CH/192K 176K 96K 88K 48K 44. 1K/DTHD&MAT PCM/hash opt.
  DTS-HD/8CH/192K 176K 96K 88K 48K 44. 1K
  Dolby D+/8CH/48K 44. 1k/Atmos/acmod28
  AC-3/6CH/48K 44.  1K 32K/640(kbps)
  LPCM/2CH/192K 176K 96K 88K 48K 44.  1K 32K/24b 20b 16b
  LPCM/8CH/192K 176K 96K 88K 48K 44.  1K 32K/24b 20b 16b
Speaker Allocation:
  FLR=1, LFE=1, FC=1, BLR=1, BC=1, FLRC=0, RLRC=1, FLRW=0
  TFLR=0, TC=0, TFC=0, LRS=0, LFE2=0, TBC=0, SLR=0, TSLR=0
  TBLR=0, BFC=0, BFLR=0, TLRS=0
Audio Stream Layout Block:
  AI>0  OneBit>none/6 CH   LPCM>2/8 CH
```

Parsed Audio information from ARC or eARC

CDS

Pressing the CDS shortcut button will jump to the ARC/eARC Audio Information menu. See Page 49 for more details.

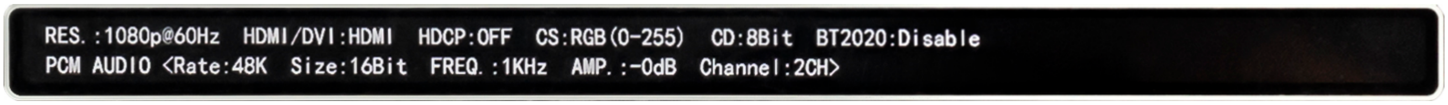
Preset Buttons

There are 2 programmable preset buttons. Use these to quickly select your favorite output parameters. These include:

- Resolution
- Timing
- HDCP Version
- Color Space
- CD (Color Bit Depth)
- Color Gamut
- Audio Format
- Audio Sampling Rate
- Audio Bit Depth
- Channel Configuration

PS-1
PS-2
PRESETS

NOTE: All parameters you have choosen will be displayed in the Audio Video Output Info Bar (see image below).



```
RES.:1080p@60Hz  HDMI/DVI:HDMI  HDCP:OFF  CS:RGB(0-255)  CD:8Bit  BT2020:Disable
PCM AUDIO <Rate:48K  Size:16Bit  FREQ.:1KHz  AMP.:-0dB  Channel:2CH>
```

NOTE: For detailed instructions see the "Using Shortcuts" user guide located at www.murideo.com

To save a Preset (PS-1/PS-2):

- Select your desired Audio and Video Output parameters
- Press and hold PS-1/PS-2 button for approximately 3 seconds
- The Keypad lights of the SEVEN-G-8K will all flash once confirming that the preset has been saved

NOTE: Your custom programed presets will be lost upon a "FACTORY RESET" or after a Firmware Update.

Shortcut Buttons

There are 2 programmable shortcut buttons (SC-1/SC-2). Use these to quickly navigate to your favorite menu.

SC-1
SC-2
SHORTCUTS

To save a Shortcut (SC-1/SC-2):

- Navigate to the Menu you would like to save as a shortcut
- Press and hold SC-1/SC-2 button for approximately 3 seconds
- The Keypad lights of the SEVEN-G-8K will all flash once confirming that the shortcut has been saved

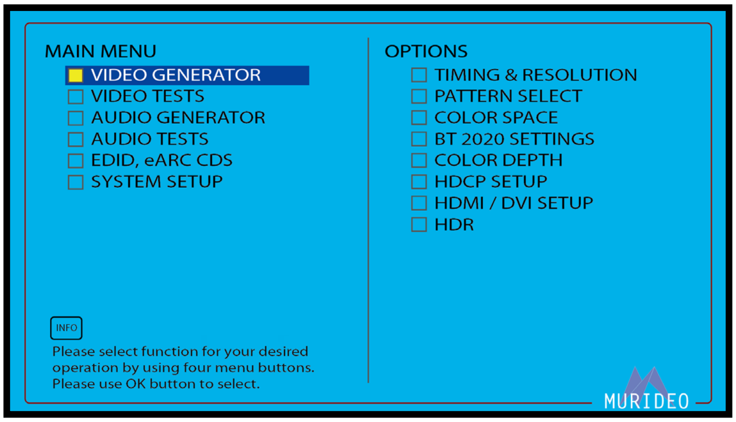
Example: You use the ARC-LATENCY MEASUREMENT menu on a regular basis. In order to navigate to this test you would have to normally press approximately 12 buttons. Since you have this menu saved as a shortcut your 12 button presses are now just ONE!

NOTE: Your custom programed shortcuts will be lost upon a "FACTORY RESET" or after a Firmware Update.

Video Generator

This is the Video Generator menu. This is where you can choose the parameters of the generated video signal. It contains the following options:

- TIMING & RESOLUTION
- PATTERN SELECT
- COLOR SPACE
- BT 2020 SETTINGS
- COLOR DEPTH
- HDCP SETUP
- HDMI / DVI SETUP
- HDR

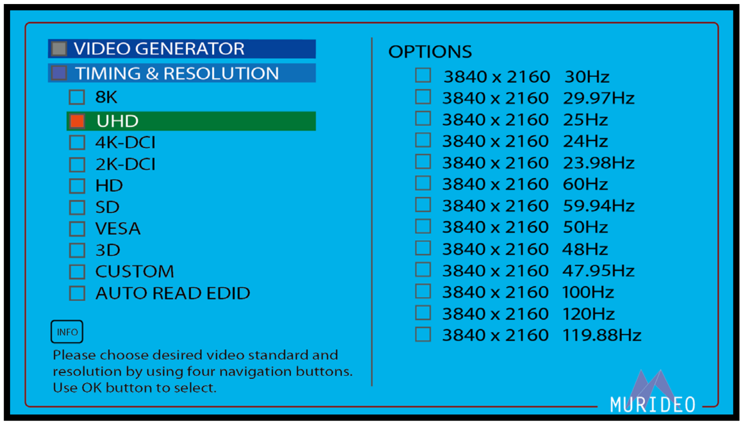

MAIN MENU
🟨 VIDEO GENERATOR
☐ VIDEO TESTS
☐ AUDIO GENERATOR
☐ AUDIO TESTS
☐ EDID, eARC CDS
☐ SYSTEM SETUP
OPTIONS
☐ TIMING & RESOLUTION
☐ PATTERN SELECT
☐ COLOR SPACE
☐ BT 2020 SETTINGS
☐ COLOR DEPTH
☐ HDCP SETUP
☐ HDMI / DVI SETUP
☐ HDR
INFO
MURIDEO

Please select function for your desired operation by using four menu buttons. Please use OK button to select.

TIMING & RESOLUTION:

Use this page to select the resolution and frame rate of the generated video signal. It contains the following options

- 8K
- UHD
- 4K-DCI
- 2K-DCI
- HD
- SD
- VESA
- 3D
- CUSTOM
- AUTO READ EDID

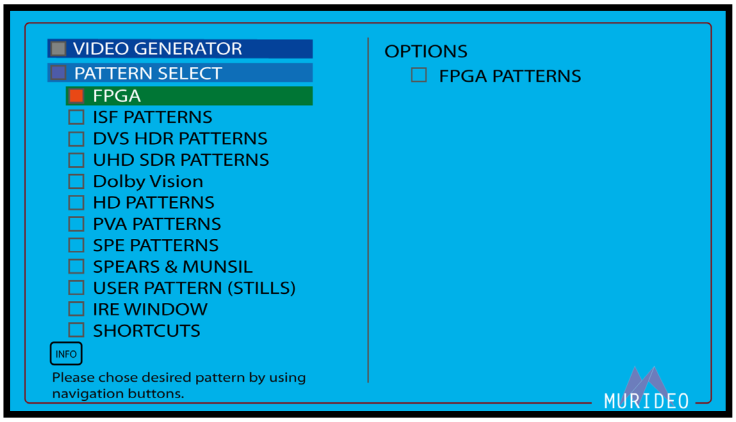

VIDEO GENERATOR
TIMING & RESOLUTION
☐ 8K
🟥 UHD
☐ 4K-DCI
☐ 2K-DCI
☐ HD
☐ SD
☐ VESA
☐ 3D
☐ CUSTOM
☐ AUTO READ EDID
OPTIONS
☐ 3840 x 2160 30Hz
☐ 3840 x 2160 29.97Hz
☐ 3840 x 2160 25Hz
☐ 3840 x 2160 24Hz
☐ 3840 x 2160 23.98Hz
☐ 3840 x 2160 60Hz
☐ 3840 x 2160 59.94Hz
☐ 3840 x 2160 50Hz
☐ 3840 x 2160 48Hz
☐ 3840 x 2160 47.95Hz
☐ 3840 x 2160 100Hz
☐ 3840 x 2160 120Hz
☐ 3840 x 2160 119.88Hz
INFO
MURIDEO

Please choose desired video standard and resolution by using four navigation buttons. Use OK button to select.

For a complete list of available timings, visit www.murideo.com

PATTERN SELECT:

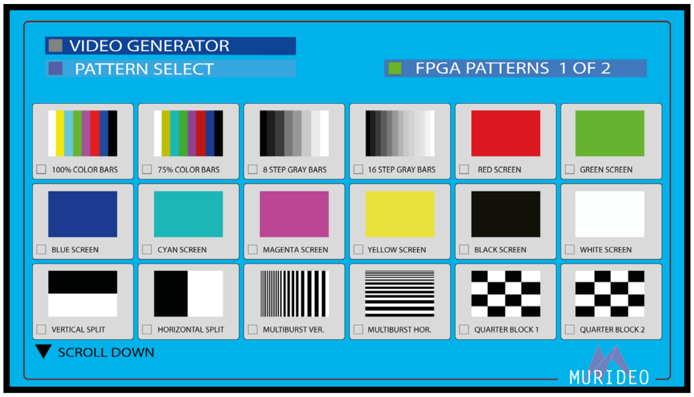
Select from over 500 high-quality stand-alone patterns. However, the pattern choices are virtually unlimited when using the FPGA processor in addition to patterns generated with IRE and APL (Average Picture Level).
For a complete list of patterns and their descriptions visit www.murideo.com/test-pattern-library

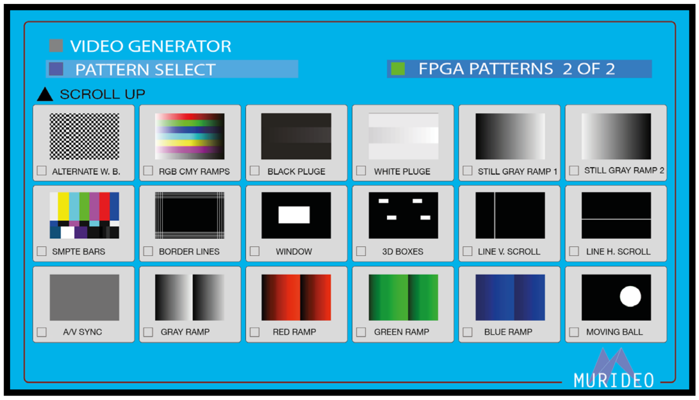

VIDEO GENERATOR
PATTERN SELECT
🟥 FPGA
☐ ISF PATTERNS
☐ DVS HDR PATTERNS
☐ UHD SDR PATTERNS
☐ Dolby Vision
☐ HD PATTERNS
☐ PVA PATTERNS
☐ SPE PATTERNS
☐ SPEARS & MUNSIL
☐ USER PATTERN (STILLS)
☐ IRE WINDOW
☐ SHORTCUTS
OPTIONS
☐ FPGA PATTERNS
INFO
MURIDEO

Please chose desired pattern by using navigation buttons.

FPGA:

FPGA (Field Programmable Gate Array) patterns are generated "on-the-fly". This means you can select/ change any video parameter that is neccesarry for your specfic needs.
NOTE: If you change any parameters of any patterns that are not in the FPGA menu (example ISF, DVS, UHD/SDR, Dolby Vision, HD Patterns, PVA Patterns, SPE Patterns, Spears and Munsil) these will always be output in their native format.

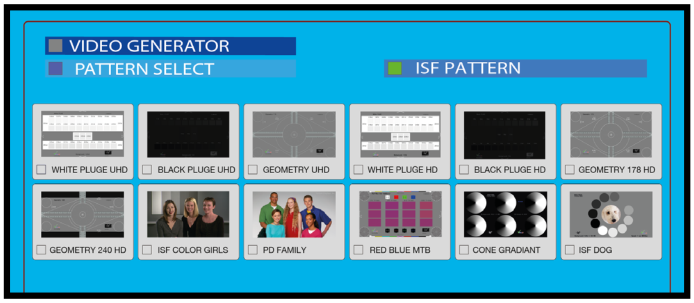

VIDEO GENERATOR
PATTERN SELECT
FPGA PATTERNS 1 OF 2
100% COLOR BARS
75% COLOR BARS
8 STEP GRAY BARS
16 STEP GRAY BARS
RED SCREEN
GREEN SCREEN
BLUE SCREEN
CYAN SCREEN
MAGENTA SCREEN
YELLOW SCREEN
BLACK SCREEN
WHITE SCREEN
VERTICAL SPLIT
HORIZONTAL SPLIT
MULTIBURST VER.
MULTIBURST HOR.
QUARTER BLOCK 1
QUARTER BLOCK 2
SCROLL DOWN
MURIDEO


VIDEO GENERATOR
PATTERN SELECT
FPGA PATTERNS 2 OF 2
SCROLL UP
ALTERNATE W. B.
RGB CMY RAMPS
BLACK PLUGE
WHITE PLUGE
STILL GRAY RAMP 1
STILL GRAY RAMP 2
SMPTE BARS
BORDER LINES
WINDOW
3D BOXES
LINE V. SCROLL
LINE H. SCROLL
A/V SYNC
GRAY RAMP
RED RAMP
GREEN RAMP
BLUE RAMP
MOVING BALL
MURIDEO

ISF PATTERNS:

HD - Native 1920x1080@60Hz RGB Full (0-255)
UHD - Native 3840x2160@60Hz RGB Full (0-255)

ISF Patterns are designed by the Imaging Science Foundation. https://imagingscience.com/

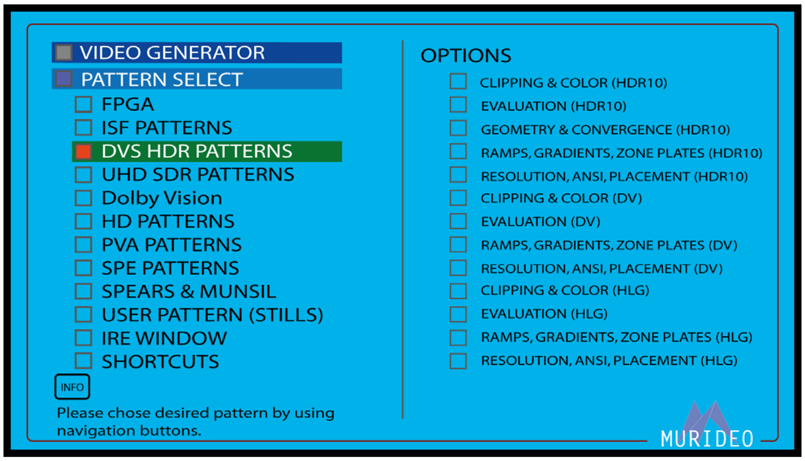

VIDEO GENERATOR
PATTERN SELECT
ISF PATTERN
WHITE PLUGE UHD
BLACK PLUGE UHD
GEOMETRY UHD
WHITE PLUGE HD
BLACK PLUGE HD
GEOMETRY 178 HD
GEOMETRY 240 HD
ISF COLOR GIRLS
PD FAMILY
RED BLUE MTB
CONE GRADIANT
ISF DOG

DVS HDR PATTERNS:

DVS Patterns include "real world" images along with technical test patterns which are available in HDR10, Dolby Vision, and HLG.
https://diversifiedvideosolutions.com/
Native Timing for the 3 options.
HDR10 - 3840x2160@24Hz YC 4:4:4
DV - 3840x2160@24Hz YC 4:2:2
HLG - 3840x2160@24Hz YC 4:4:4

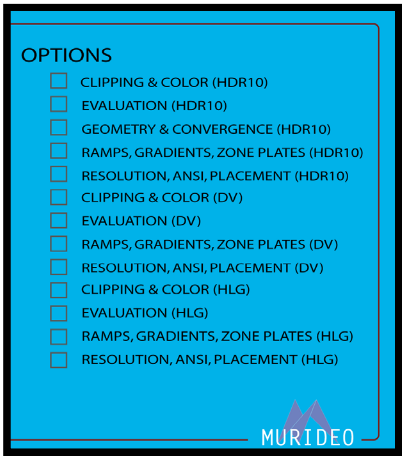
This menu contains the following options:

- CLIPPING & COLOR (HDR10)
- EVALUATION (HDR10)
- GEOMETRY & CONVERGENCE (HDR10)
- RAMPS, GRADIENTS, ZONE PLATES (HDR10)
- RESOLUTION, ANSI, PLACEMENT (HDR10)


VIDEO GENERATOR
PATTERN SELECT
☐ FPGA
☐ ISF PATTERNS
DVS HDR PATTERNS
☐ UHD SDR PATTERNS
☐ Dolby Vision
☐ HD PATTERNS
☐ PVA PATTERNS
☐ SPE PATTERNS
☐ SPEARS & MUNSIL
☐ USER PATTERN (STILLS)
☐ IRE WINDOW
☐ SHORTCUTS
INFO
OPTIONS
☐ CLIPPING & COLOR (HDR10)
☐ EVALUATION (HDR10)
☐ GEOMETRY & CONVERGENCE (HDR10)
☐ RAMPS, GRADIENTS, ZONE PLATES (HDR10)
☐ RESOLUTION, ANSI, PLACEMENT (HDR10)
☐ CLIPPING & COLOR (DV)
☐ EVALUATION (DV)
☐ RAMPS, GRADIENTS, ZONE PLATES (DV)
☐ RESOLUTION, ANSI, PLACEMENT (DV)
☐ CLIPPING & COLOR (HLG)
☐ EVALUATION (HLG)
☐ RAMPS, GRADIENTS, ZONE PLATES (HLG)
☐ RESOLUTION, ANSI, PLACEMENT (HLG)
MURIDEO

Please chose desired pattern by using navigation buttons.

- CLIPPING & COLOR (DV)
- EVALUATION (DV)
- RAMPS, GRADIENTS, ZONE PLATES (DV)
- RESOLUTIONS, ANSI, PLACEMENT (DV)
- CLIPPING & COLOR (HLG)
- EVALUATION (HLG)
- RAMPS, GRADIENTS, ZONE PLATES (HLG)
- RESOLUTION, ANSI, PLACEMENT (HLG)



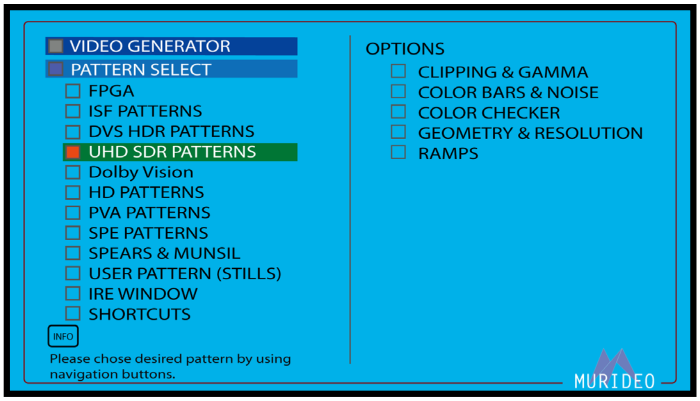
OPTIONS

☐ CLIPPING & COLOR (HDR10)
☐ EVALUATION (HDR10)
☐ GEOMETRY & CONVERGENCE (HDR10)
☐ RAMPS, GRADIENTS, ZONE PLATES (HDR10)
☐ RESOLUTION, ANSI, PLACEMENT (HDR10)
☐ CLIPPING & COLOR (DV)
☐ EVALUATION (DV)
☐ RAMPS, GRADIENTS, ZONE PLATES (DV)
☐ RESOLUTION, ANSI, PLACEMENT (DV)
☐ CLIPPING & COLOR (HLG)
☐ EVALUATION (HLG)
☐ RAMPS, GRADIENTS, ZONE PLATES (HLG)
☐ RESOLUTION, ANSI, PLACEMENT (HLG)

UHD SDR PATTERNS:

Native 3840x2160@60Hz RGB Full (0-255).

- Clipping & Gamma
- Color Bars & Noise
- Color Checker
- Geometry & Resolution
- Ramps



VIDEO GENERATOR
PATTERN SELECT
☐ FPGA
☐ ISF PATTERNS
☐ DVS HDR PATTERNS
■ UHD SDR PATTERNS
☐ Dolby Vision
☐ HD PATTERNS
☐ PVA PATTERNS
☐ SPE PATTERNS
☐ SPEARS & MUNSIL
☐ USER PATTERN (STILLS)
☐ IRE WINDOW
☐ SHORTCUTS

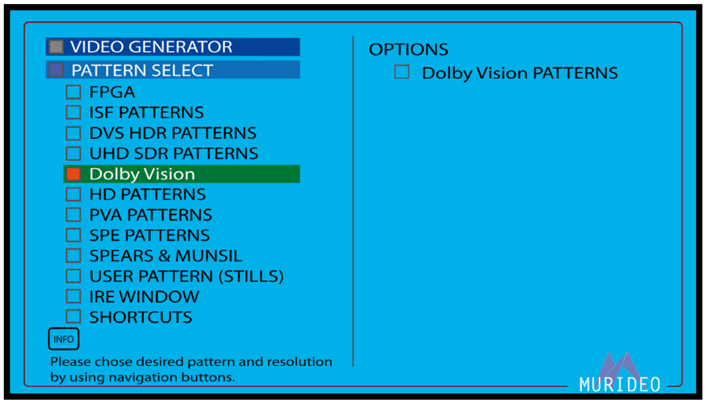
INFO

Please chose desired pattern by using navigation buttons.

OPTIONS
☐ CLIPPING & GAMMA
☐ COLOR BARS & NOISE
☐ COLOR CHECKER
☐ GEOMETRY & RESOLUTION
☐ RAMPS

Dolby Vision:

They are labeled FHD (1080p) and UHD (4k).
FHD - Native 1920x1080@60Hz RGB Full (0-255)
UHD - Native 3840x2160@60Hz RGB Full (0-255)

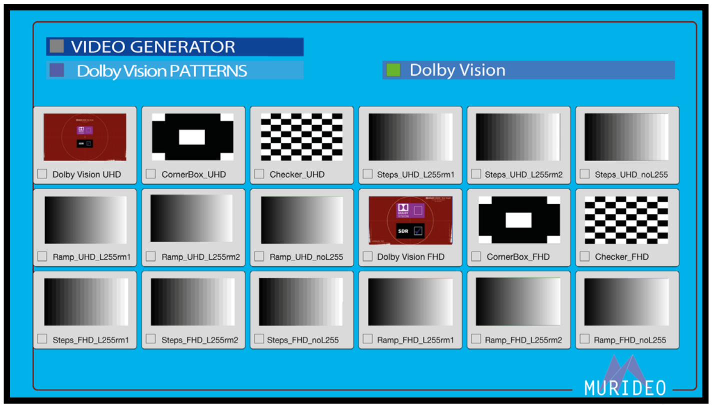


VIDEO GENERATOR
PATTERN SELECT
☐ FPGA
☐ ISF PATTERNS
☐ DVS HDR PATTERNS
☐ UHD SDR PATTERNS
■ Dolby Vision
☐ HD PATTERNS
☐ PVA PATTERNS
☐ SPE PATTERNS
☐ SPEARS & MUNSIL
☐ USER PATTERN (STILLS)
☐ IRE WINDOW
☐ SHORTCUTS

INFO

Please chose desired pattern and resolution by using navigation buttons.

OPTIONS
☐ Dolby Vision PATTERNS

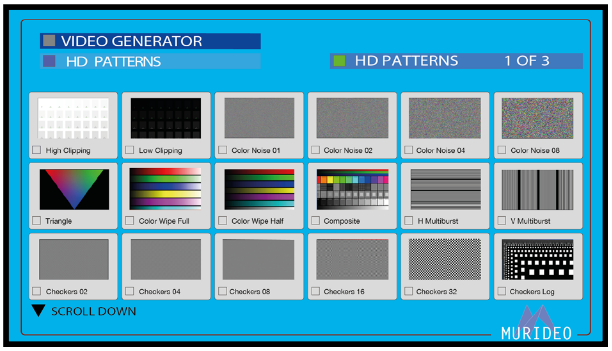


VIDEO GENERATOR
Dolby Vision PATTERNS
🟩 Dolby Vision

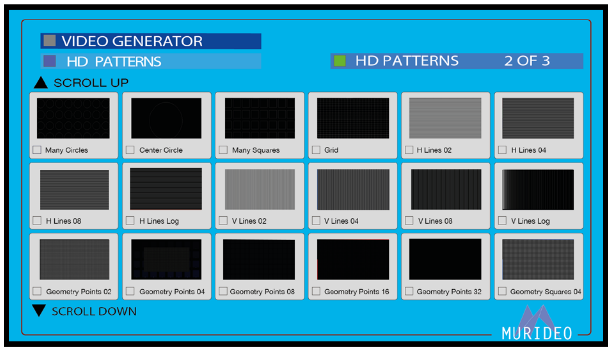
☐ Dolby Vision UHD
☐ CornerBox_UHD
☐ Checker_UHD
☐ Steps_UHD_L255rm1
☐ Steps_UHD_L255rm2
☐ Steps_UHD_noL255
☐ Ramp_UHD_L255rm1
☐ Ramp_UHD_L255rm2
☐ Ramp_UHD_noL255
☐ Dolby Vision FHD
☐ CornerBox_FHD
☐ Checker_FHD
☐ Steps_FHD_L255rm1
☐ Steps_FHD_L255rm2
☐ Steps_FHD_noL255
☐ Ramp_FHD_L255rm1
☐ Ramp_FHD_L255rm2
☐ Ramp_FHD_noL255

HD PATTERNS:

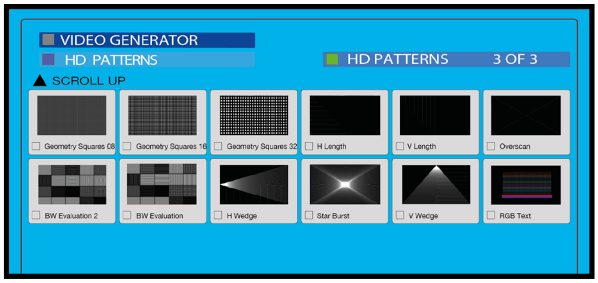
These test patterns are native 1080p@60Hz RGB (0-255)



VIDEO GENERATOR
HD PATTERNS
HD PATTERNS 1 OF 3
☐ High Clipping
☐ Low Clipping
☐ Color Noise 01
☐ Color Noise 02
☐ Color Noise 04
☐ Color Noise 08
☐ Triangle
☐ Color Wipe Full
☐ Color Wipe Half
☐ Composite
☐ H Multiburst
☐ V Multiburst
☐ Checkers 02
☐ Checkers 04
☐ Checkers 08
☐ Checkers 16
☐ Checkers 32
☐ Checkers Log
▼ SCROLL DOWN
MURIDEO

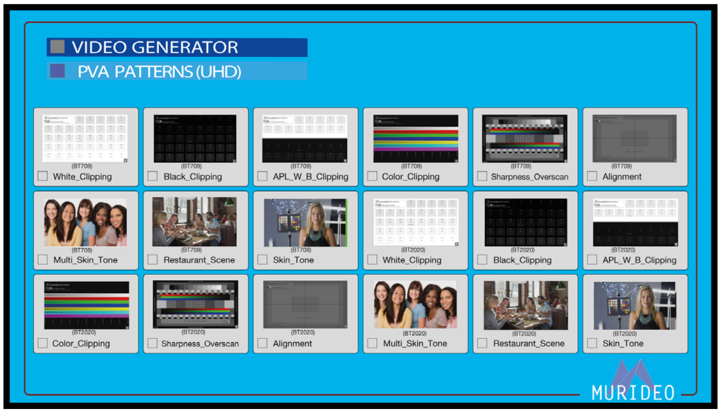


VIDEO GENERATOR
HD PATTERNS
HD PATTERNS 2 OF 3
▲ SCROLL UP
☐ Many Circles
☐ Center Circle
☐ Many Squares
☐ Grid
☐ H Lines 02
☐ H Lines 04
☐ H Lines 08
☐ H Lines Log
☐ V Lines 02
☐ V Lines 04
☐ V Lines 08
☐ V Lines Log
☐ Geometry Points 02
☐ Geometry Points 04
☐ Geometry Points 08
☐ Geometry Points 16
☐ Geometry Points 32
☐ Geometry Squares 04
▼ SCROLL DOWN
MURIDEO



VIDEO GENERATOR
HD PATTERNS
HD PATTERNS 3 OF 3
▲ SCROLL UP
☐ Geometry Squares 08
☐ Geometry Squares 16
☐ Geometry Squares 32
☐ H Length
☐ V Length
☐ Overscan
☐ BW Evaluation 2
☐ BW Evaluation
☐ H Wedge
☐ Star Burst
☐ V Wedge
☐ RGB Text

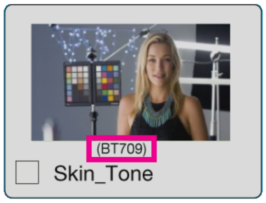
PVA PATTERNS (UHD):



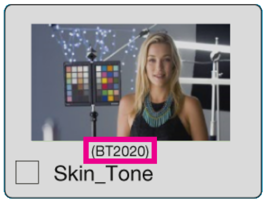
VIDEO GENERATOR
PVA PATTERNS (UHD)
(BT709) ☐ White_Clipping
(BT709) ☐ Black_Clipping
(BT709) ☐ APL_W_B_Clipping
(BT709) ☐ Color_Clipping
(BT709) ☐ Sharpness_Overscan
(BT709) ☐ Alignment
(BT709) ☐ Multi_Skin_Tone
(BT709) ☐ Restaurant_Scene
(BT709) ☐ Skin_Tone
(BT2020) ☐ White_Clipping
(BT2020) ☐ Black_Clipping
(BT2020) ☐ APL_W_B_Clipping
(BT2020) ☐ Color_Clipping
(BT2020) ☐ Sharpness_Overscan
(BT2020) ☐ Alignment
(BT2020) ☐ Multi_Skin_Tone
(BT2020) ☐ Restaurant_Scene
(BT2020) ☐ Skin_Tone
MURIDEO

These patterns were developed by the Professional Video Alliance.
https://professionalvideoalliance.com/
These patterns are native 3840x2160@60Hz YC 4:2:2.
Each pattern has two versions:

- BT709
- BT2020

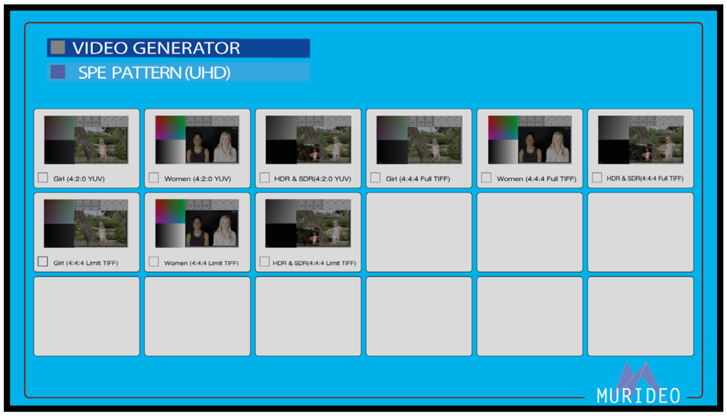


(BT709)
☐ Skin_Tone



(BT2020)
☐ Skin_Tone

SPE PATTERNS (UHD):

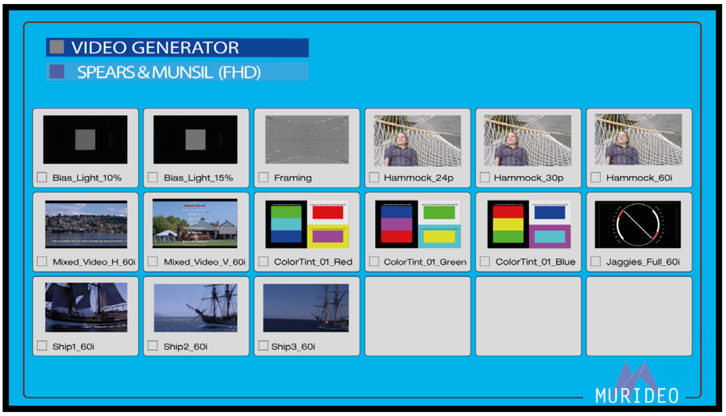


VIDEO GENERATOR
SPE PATTERN (UHD)
☐ Girl (4:2:0 YUV)
☐ Women (4:2:0 YUV)
☐ HDR & SDR(4:2:0 YUV)
☐ Girl (4:4:4 Full TIFF)
☐ Women (4:4:4 Full TIFF)
☐ HDR & SDR(4:4:4 Full TIFF)
☐ Girl (4:4:4 Limit TIFF)
☐ Women (4:4:4 Limit TIFF)
☐ HDR & SDR(4:4:4 Limit TIFF)
MURIDEO

These patterns were developed by SPE (Sony Pictures Entertainment). There are two images, each one in multiple formats.
These patterns are native 3840x2160@60Hz, but they do vary in colorspace, chroma sub sampling, and SDR/HDR.

NOTE: Be sure to choose the correct version for your specific application. Verify the version by looking closely at the name of the test pattern or by looking at the AUDIO VIDEO INFO bar.

SPEARS & MUNSIL (FHD):


VIDEO GENERATOR
SPEARS & MUNSIL (FHD)
☐ Bias_Light_10%
☐ Bias_Light_15%
☐ Framing
☐ Hammock_24p
☐ Hammock_30p
☐ Hammock_60i
☐ Mixed_Video_H_60i
☐ Mixed_Video_V_60i
☐ ColorTint_01_Red
☐ ColorTint_01_Green
☐ ColorTint_01_Blue
☐ Jaggies_Full_60i
☐ Ship1_60i
☐ Ship2_60i
☐ Ship3_60i
MURIDEO

These test patterns are native 1920x1080 YC 4:2:2, but they do vary in frame rate. To add, some are 1080i while others are 1080P

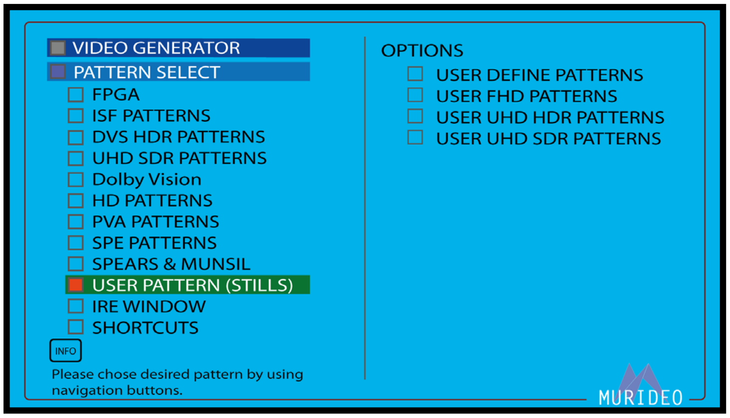
Spears & Munsil Pattern Selection includes Bias, Framing, "Sara on a Hammock", Motion Video, Color, Tint, Jaggies, and 1080i (interlaced) Motion.

NOTE: Be sure to choose the correct version for your specific application. Verify the version by looking closely at the name of the test pattern or by looking at the AUDIO VIDEO INFO bar.

USER PATTERN (STILLS):

This is where you would access any custom test patterns that you have uploaded. This menu contains 4 options:

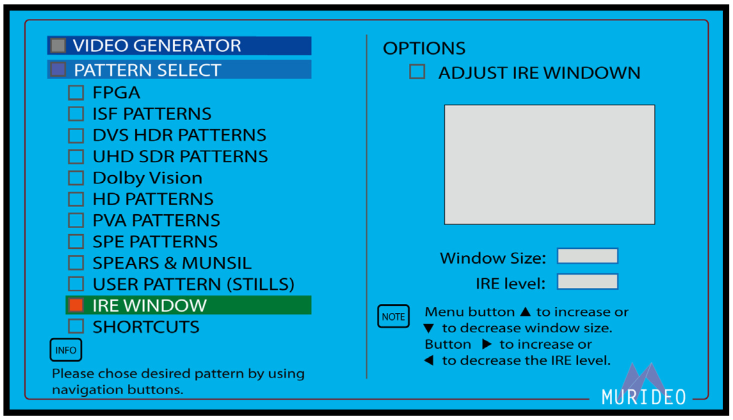
- USER DEFINED PATTERNS (x6 slots available)
- USER FHD PATTERNS (x54 slots available)
- USER UHD HDR PATTERNS (x54 slots available)
- USER UHD SDR PATTERNS (x54 slots available)


VIDEO GENERATOR
PATTERN SELECT
☐ FPGA
☐ ISF PATTERNS
☐ DVS HDR PATTERNS
☐ UHD SDR PATTERNS
☐ Dolby Vision
☐ HD PATTERNS
☐ PVA PATTERNS
☐ SPE PATTERNS
☐ SPEARS & MUNSIL
■ USER PATTERN (STILLS)
☐ IRE WINDOW
☐ SHORTCUTS
INFO
OPTIONS
☐ USER DEFINE PATTERNS
☐ USER FHD PATTERNS
☐ USER UHD HDR PATTERNS
☐ USER UHD SDR PATTERNS
MURIDEO

Please chose desired pattern by using navigation buttons.

NOTE: To upload custom test patterns use the USER VIDEO UPLOADER PC software which can be downloaded from www.murideo.com

IRE WINDOW:

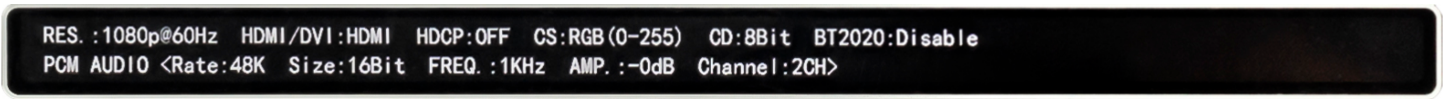

VIDEO GENERATOR
PATTERN SELECT
☐ FPGA
☐ ISF PATTERNS
☐ DVS HDR PATTERNS
☐ UHD SDR PATTERNS
☐ Dolby Vision
☐ HD PATTERNS
☐ PVA PATTERNS
☐ SPE PATTERNS
☐ SPEARS & MUNSIL
☐ USER PATTERN (STILLS)
■ IRE WINDOW
☐ SHORTCUTS
INFO
OPTIONS
☐ ADJUST IRE WINDOWN
Window Size:
IRE level:
NOTE
MURIDEO

Menu button ▲ to increase or ▼ to decrease window size.
Button ▶ to increase or ◀ to decrease the IRE level.

Please chose desired pattern by using navigation buttons.

Allows you to create a custom IRE window. You may adjust the window size (using the UP/DOWN arrow buttons) and the IRE level (using the LEFT/RIGHT arrow buttons).

NOTE: This IRE Window (pattern) is gererated by the FPGA. This means any output parameters that you choose will be retained. You can verify by looking at Audio Video Output Info Bar.

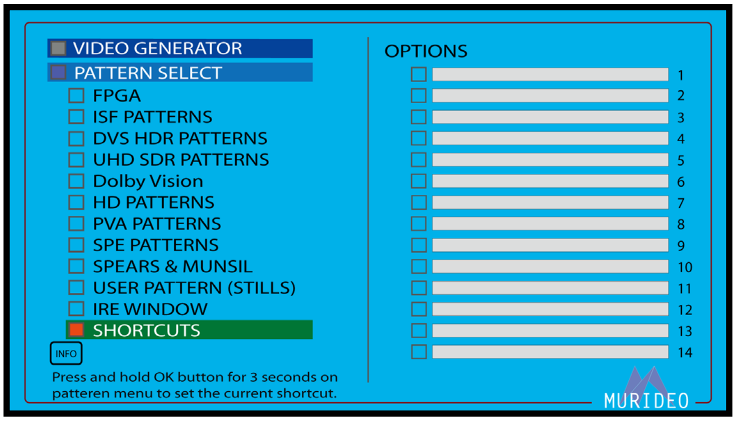


```
RES.:1080p@60Hz  HDMI/DVI:HDMI  HDCP:OFF  CS:RGB(0-255)  CD:8Bit  BT2020:Disable
PCM AUDIO <Rate:48K  Size:16Bit  FREQ.:1KHz  AMP.:-0dB  Channel:2CH>
```

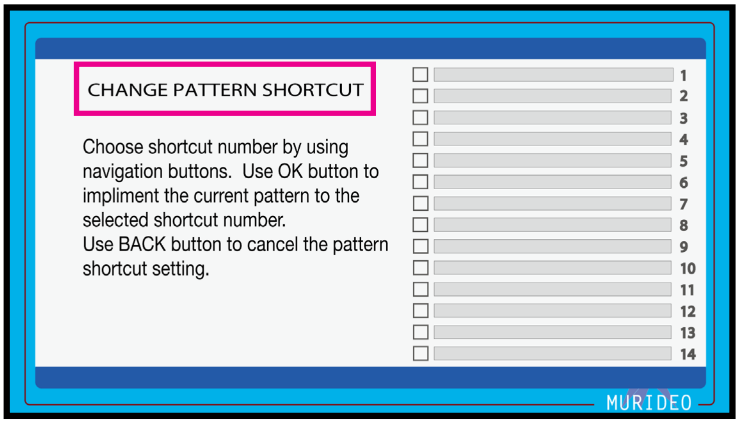
SHORTCUTS:

You can save up to 14 of your favorite test patterns as shortcuts for easy access. To save a test pattern as a shortcut choose the pattern then press and hold the OK button for 3 seconds. This will bring up the CHANGE PATTERN SHORTCUT Menu.

For detailed instructionsv see the "Using Shortcuts" user guide located at www.murideo.com


VIDEO GENERATOR
PATTERN SELECT
FPGA
ISF PATTERNS
DVS HDR PATTERNS
UHD SDR PATTERNS
Dolby Vision
HD PATTERNS
PVA PATTERNS
SPE PATTERNS
SPEARS & MUNSIL
USER PATTERN (STILLS)
IRE WINDOW
SHORTCUTS
OPTIONS
1
2
3
4
5
6
7
8
9
10
11
12
13
14
INFO
MURIDEO

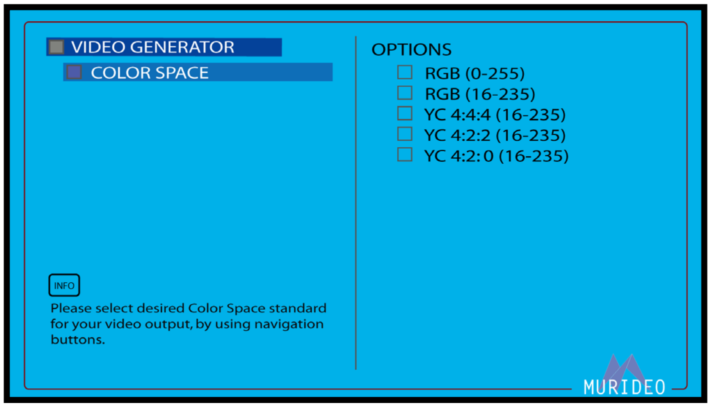
Press and hold OK button for 3 seconds on patteren menu to set the current shortcut.


CHANGE PATTERN SHORTCUT
1
2
3
4
5
6
7
8
9
10
11
12
13
14
MURIDEO

Choose shortcut number by using navigation buttons. Use OK button to impliment the current pattern to the selected shortcut number.
Use BACK button to cancel the pattern shortcut setting.

COLOR SPACE:

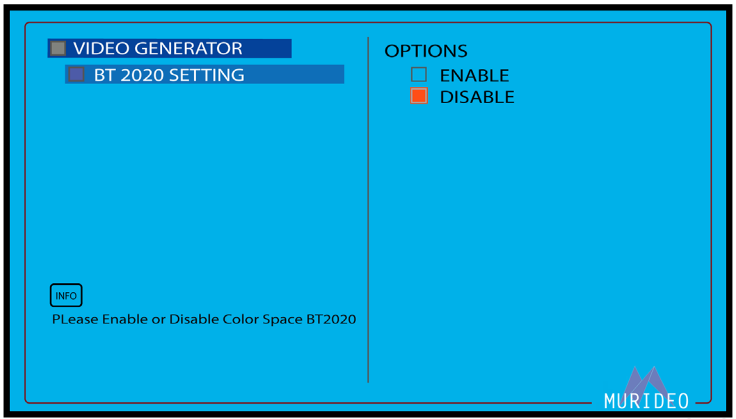
Select the desired color space of the Output Signal.
These options are generated from the FPGA.
NOTE: This will only affect the FPGA Patterns and the custom IRE window tool.


VIDEO GENERATOR
COLOR SPACE
OPTIONS
RGB (0-255)
RGB (16-235)
YC 4:4:4 (16-235)
YC 4:2:2 (16-235)
YC 4:2:0 (16-235)
INFO
MURIDEO

Please select desired Color Space standard for your video output, by using navigation buttons.

BT2020 SETTING:

Enable or Disable BT2020 for the FPGA Generator.
NOTE: If BT2020 is Disabled, the default color gamut will be BT 709


VIDEO GENERATOR
BT 2020 SETTING
OPTIONS
INFO
MURIDEO

☐ ENABLE
☒ DISABLE

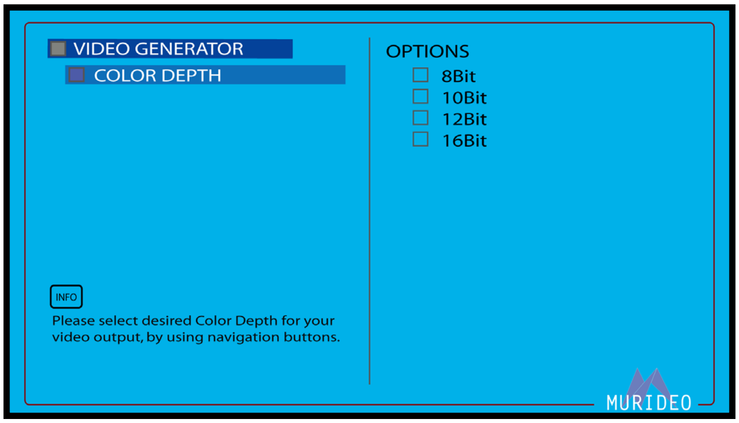
PLease Enable or Disable Color Space BT2020

COLOR DEPTH:

Change the Color Depth for any of the FPGA Patterns.

- 8 Bit
- 10 Bit
- 12 Bit
- 16 Bit

NOTE: This will only affect the FPGA Patterns and the custom IRE window tool.

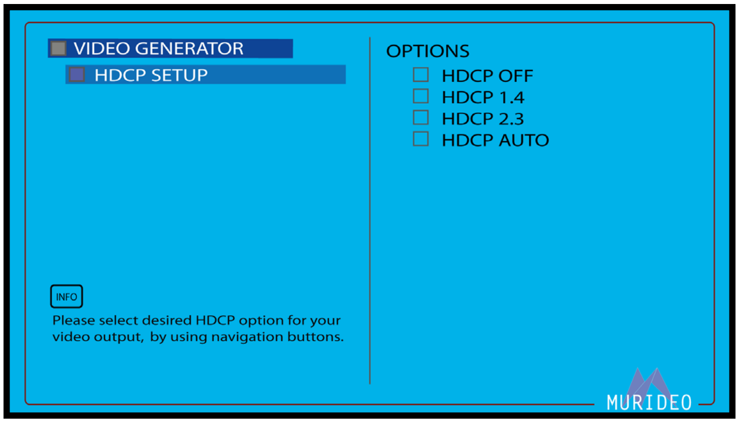

VIDEO GENERATOR
COLOR DEPTH
OPTIONS
☐ 8Bit
☐ 10Bit
☐ 12Bit
☐ 16Bit
INFO
MURIDEO

Please select desired Color Depth for your video output, by using navigation buttons.

HDCP SETUP:

Set the encryption type for the HDMI Output of the SEVEN-G-8K.

- HDCP OFF
- HDCP 1.4
- HDCP 2.3 (this includes 2.2)
- HDCP AUTO (according to the EDID of the connected device)

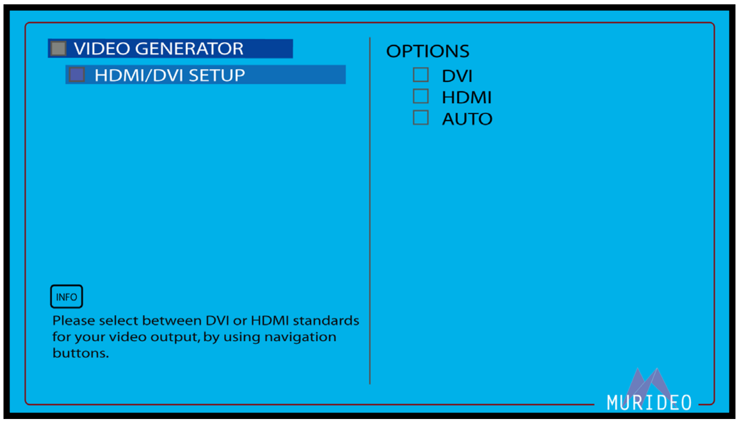

VIDEO GENERATOR
HDCP SETUP
OPTIONS
☐ HDCP OFF
☐ HDCP 1.4
☐ HDCP 2.3
☐ HDCP AUTO
INFO
MURIDEO

Please select desired HDCP option for your video output, by using navigation buttons.

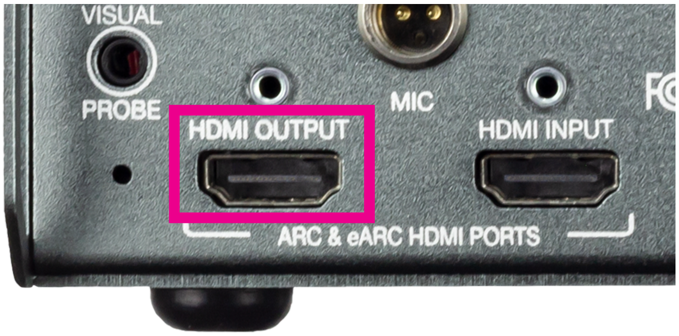
HDMI/DVI SETUP:

Use this page to set the TX (Output).

- DVI - Sets the output to DVI (RGB 4:4:4)
- HDMI - Sets the output to HDMI (YUV)
- AUTO - Based on the EDID of the connected device


VIDEO GENERATOR
HDMI/DVI SETUP
OPTIONS
☐ DVI
☐ HDMI
☐ AUTO
INFO
MURIDEO

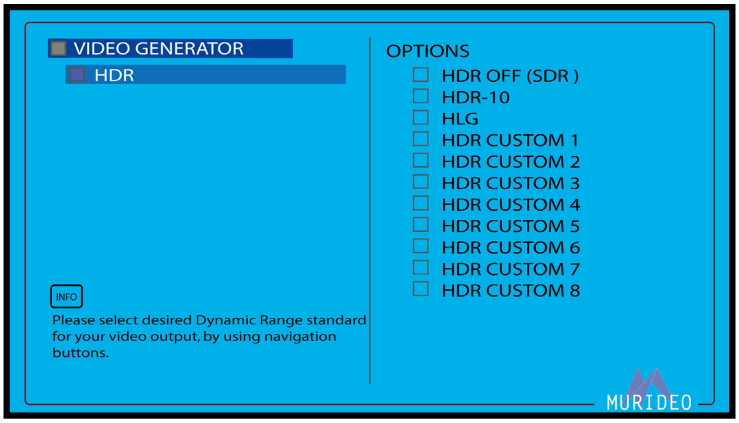
Please select between DVI or HDMI standards for your video output, by using navigation buttons.


VISUAL
PROBE
HDMI OUTPUT
MIC
HDMI INPUT
ARC & eARC HDMI PORTS

HDR:

Change the HDR Metadata for any of the FPGA Patterns.

Note: You can view the HDR Metadata down to the HEX code using the PC Control Software available for download at www.murideo.com



VIDEO GENERATOR
HDR

OPTIONS
☐ HDR OFF (SDR)
☐ HDR-10
☐ HLG
☐ HDR CUSTOM 1
☐ HDR CUSTOM 2
☐ HDR CUSTOM 3
☐ HDR CUSTOM 4
☐ HDR CUSTOM 5
☐ HDR CUSTOM 6
☐ HDR CUSTOM 7
☐ HDR CUSTOM 8

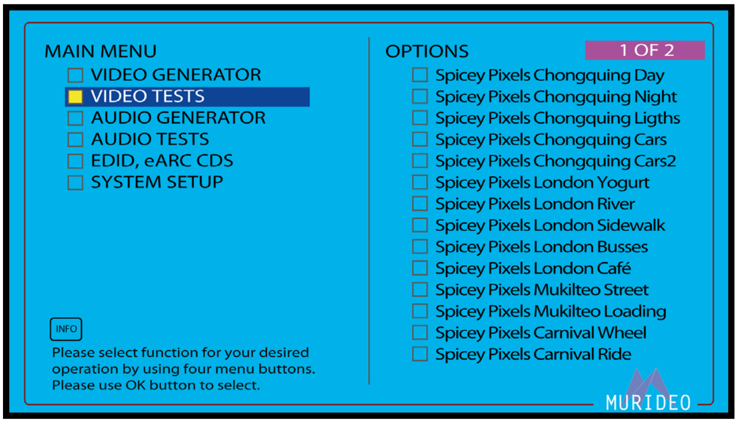
INFO
Please select desired Dynamic Range standard for your video output, by using navigation buttons.

MURIDEO

VIDEO TEST:

Playback pre-loaded video files files from Spicey Pixels and SPE (Sony Pictures Entertainment), or any of your own that you have uploaded using the User Video Uploader free PC software.

Note: Visit www.murideo.com to download the free User Video Uploder PC Software. There are 19 pre-loaded video test clips, or you can load TWO of custom video test clips (.MOV or multiple .YUV frames)

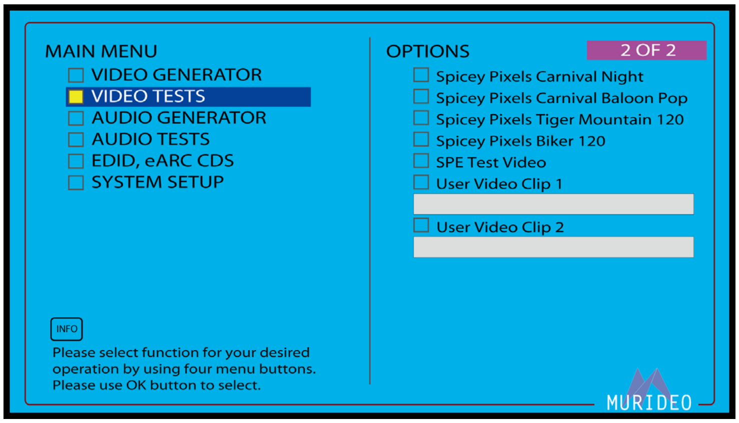


MAIN MENU
☐ VIDEO GENERATOR
☐ VIDEO TESTS
☐ AUDIO GENERATOR
☐ AUDIO TESTS
☐ EDID, eARC CDS
☐ SYSTEM SETUP

OPTIONS 1 OF 2
☐ Spicey Pixels Chongquing Day
☐ Spicey Pixels Chongquing Night
☐ Spicey Pixels Chongquing Ligths
☐ Spicey Pixels Chongquing Cars
☐ Spicey Pixels Chongquing Cars2
☐ Spicey Pixels London Yogurt
☐ Spicey Pixels London River
☐ Spicey Pixels London Sidewalk
☐ Spicey Pixels London Busses
☐ Spicey Pixels London Café
☐ Spicey Pixels Mukilteo Street
☐ Spicey Pixels Mukilteo Loading
☐ Spicey Pixels Carnival Wheel
☐ Spicey Pixels Carnival Ride

INFO
Please select function for your desired operation by using four menu buttons. Please use OK button to select.

MURIDEO



MAIN MENU
☐ VIDEO GENERATOR
☐ VIDEO TESTS
☐ AUDIO GENERATOR
☐ AUDIO TESTS
☐ EDID, eARC CDS
☐ SYSTEM SETUP

OPTIONS 2 OF 2
☐ Spicey Pixels Carnival Night
☐ Spicey Pixels Carnival Baloon Pop
☐ Spicey Pixels Tiger Mountain 120
☐ Spicey Pixels Biker 120
☐ SPE Test Video
☐ User Video Clip 1
☐ User Video Clip 2

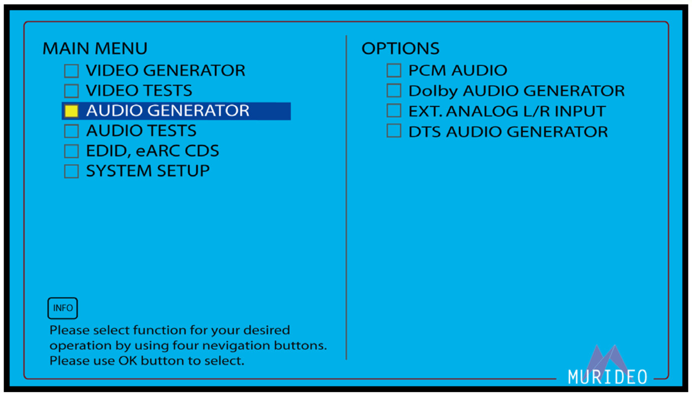
INFO
Please select function for your desired operation by using four menu buttons. Please use OK button to select.

MURIDEO

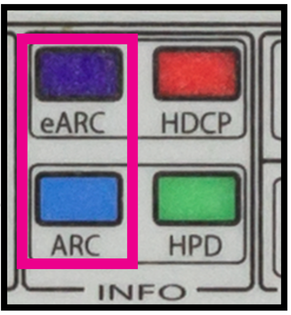
AUDIO GENERATOR:

Use this menu to select the format of the generated audio signal.

- PCM
- Dolby Audio
- External L/R
- DTS


MAIN MENU
☐ VIDEO GENERATOR
☐ VIDEO TESTS
■ AUDIO GENERATOR
☐ AUDIO TESTS
☐ EDID, eARC CDS
☐ SYSTEM SETUP
OPTIONS
☐ PCM AUDIO
☐ Dolby AUDIO GENERATOR
☐ EXT. ANALOG L/R INPUT
☐ DTS AUDIO GENERATOR
INFO
MURIDEO

Please select function for your desired operation by using four nevigation buttons. Please use OK button to select.

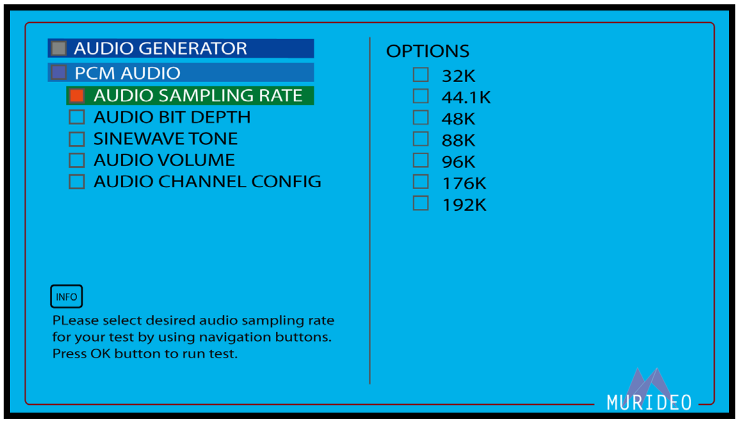

eARC
HDCP
ARC
HPD
INFO

NOTE: These settings apply for both the HDMI TX (Output) and RX (Input, ARC and eARC) - You must enable ARC/eARC from the system setup menu. You may also need to enable ARC/eARC inside the connected device under test. Once detected, the ARC/eARC light will illuminate.

PCM AUDIO:

PCM Audio contains the following options:

- Audio Sampling Rate
- Audio Bit Depth
- Sinewave Tone
- Audio Volume
- Audio Channel Configuration

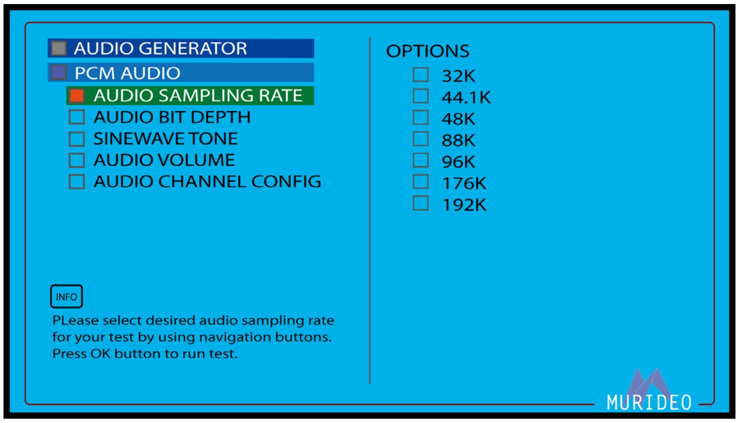

■ AUDIO GENERATOR
■ PCM AUDIO
■ AUDIO SAMPLING RATE
☐ AUDIO BIT DEPTH
☐ SINEWAVE TONE
☐ AUDIO VOLUME
☐ AUDIO CHANNEL CONFIG
OPTIONS
☐ 32K
☐ 44.1K
☐ 48K
☐ 88K
☐ 96K
☐ 176K
☐ 192K
INFO
MURIDEO

PLease select desired audio sampling rate for your test by using navigation buttons. Press OK button to run test.

PCM AUDIO SAMPLING RATE:

PCM Audio Sampling Rate contains the following options (in Kilohertz/KHz):

- 32K
- 44.1K
- 48K
- 88K
- 96K
- 176K
- 192K

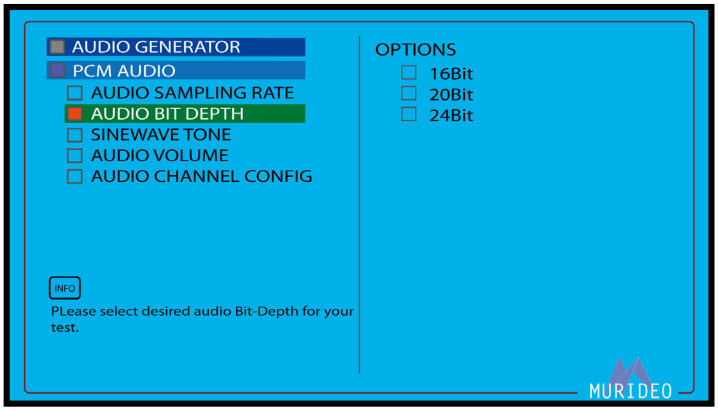

■ AUDIO GENERATOR
■ PCM AUDIO
■ AUDIO SAMPLING RATE
☐ AUDIO BIT DEPTH
☐ SINEWAVE TONE
☐ AUDIO VOLUME
☐ AUDIO CHANNEL CONFIG
OPTIONS
☐ 32K
☐ 44.1K
☐ 48K
☐ 88K
☐ 96K
☐ 176K
☐ 192K
INFO
MURIDEO

PLease select desired audio sampling rate for your test by using navigation buttons. Press OK button to run test.

PCM AUDIO BIT DEPTH:

PCM Audio contains the following options for Bit Depth.

- 16Bit
- 20Bit
- 24Bit



■ AUDIO GENERATOR
■ PCM AUDIO
☐ AUDIO SAMPLING RATE
■ AUDIO BIT DEPTH
☐ SINEWAVE TONE
☐ AUDIO VOLUME
☐ AUDIO CHANNEL CONFIG

INFO
PLease select desired audio Bit-Depth for your test.

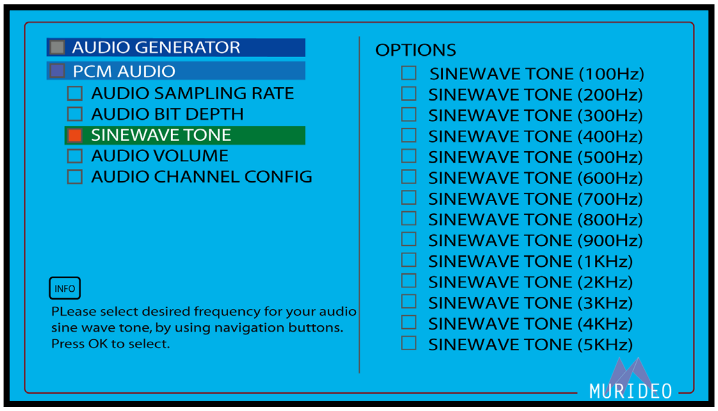
OPTIONS
☐ 16Bit
☐ 20Bit
☐ 24Bit

MURIDEO

PCM AUDIO SINEWAVE TONE:

Here you can customize the frequency of the PCM Audio Sinewave tone. There are 14 options available.

- 100Hz
- 200Hz
- 300Hz
- 400Hz
- 500Hz
- 600Hz
- 700Hz
- 800Hz
- 900Hz
- 1KHz
- 2KHz
- 3KHZ
- 4KHz
- 5KHz



■ AUDIO GENERATOR
■ PCM AUDIO
☐ AUDIO SAMPLING RATE
☐ AUDIO BIT DEPTH
■ SINEWAVE TONE
☐ AUDIO VOLUME
☐ AUDIO CHANNEL CONFIG

INFO
PLease select desired frequency for your audio sine wave tone, by using navigation buttons.
Press OK to select.

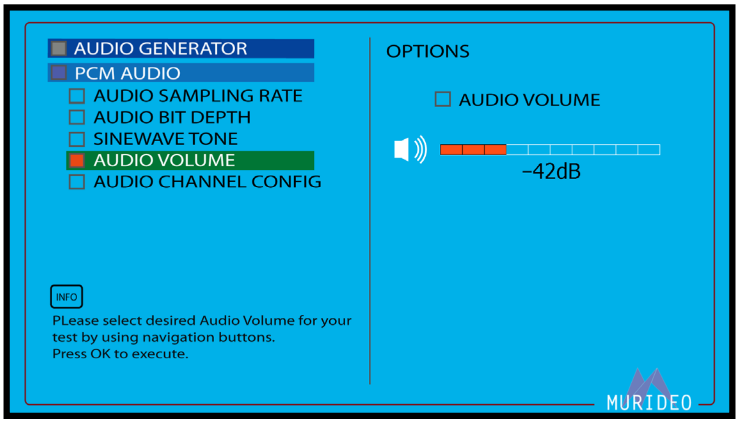
OPTIONS
☐ SINEWAVE TONE (100Hz)
☐ SINEWAVE TONE (200Hz)
☐ SINEWAVE TONE (300Hz)
☐ SINEWAVE TONE (400Hz)
☐ SINEWAVE TONE (500Hz)
☐ SINEWAVE TONE (600Hz)
☐ SINEWAVE TONE (700Hz)
☐ SINEWAVE TONE (800Hz)
☐ SINEWAVE TONE (900Hz)
☐ SINEWAVE TONE (1KHz)
☐ SINEWAVE TONE (2KHz)
☐ SINEWAVE TONE (3KHz)
☐ SINEWAVE TONE (4KHz)
☐ SINEWAVE TONE (5KHz)

MURIDEO

PCM AUDIO AUDIO VOLUME:

Adjust the volume of the generator Audio output.

NOTE: This volume adjustment affects all audio generated by the SEVEN-G-8K.



■ AUDIO GENERATOR
■ PCM AUDIO
☐ AUDIO SAMPLING RATE
☐ AUDIO BIT DEPTH
☐ SINEWAVE TONE
■ AUDIO VOLUME
☐ AUDIO CHANNEL CONFIG

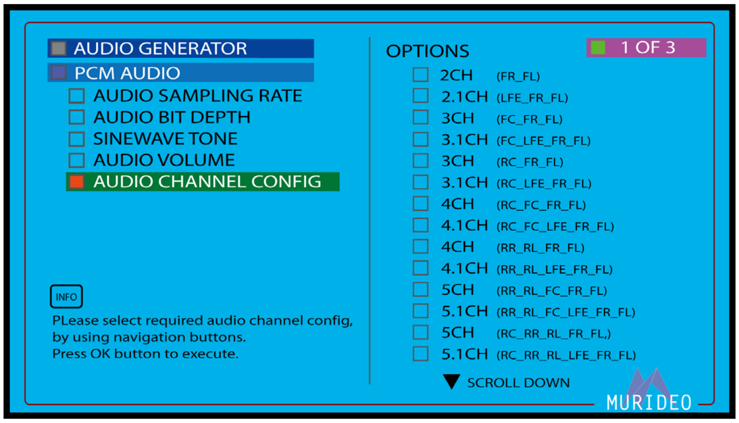
INFO
PLease select desired Audio Volume for your test by using navigation buttons.
Press OK to execute.

OPTIONS
☐ AUDIO VOLUME
−42dB

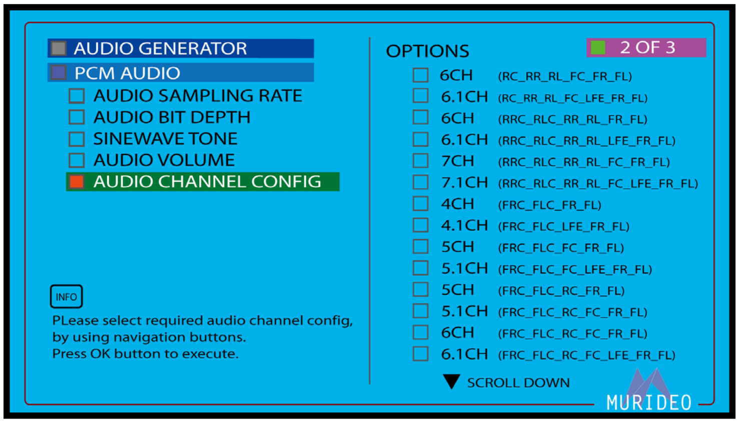
MURIDEO

AUDIO CHANNEL /SPEAKER CONFIGURATION:

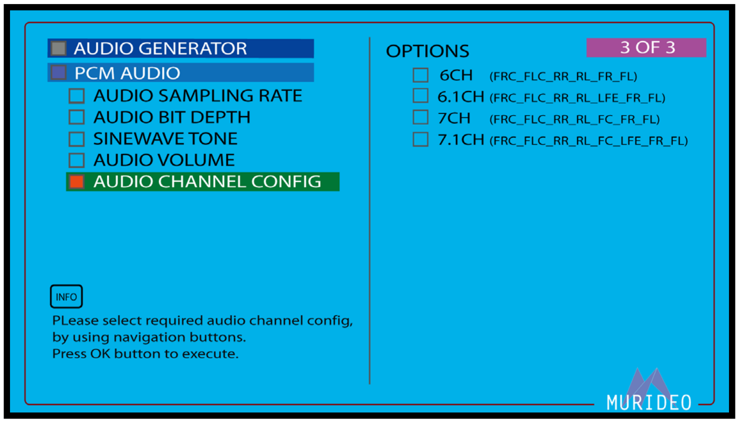
Use this page to select between various multichannel audio samples starting with 2 CH Stereo with OPTIONS up to 7.1CH.


AUDIO GENERATOR
PCM AUDIO
☐ AUDIO SAMPLING RATE
☐ AUDIO BIT DEPTH
☐ SINEWAVE TONE
☐ AUDIO VOLUME
■ AUDIO CHANNEL CONFIG
INFO
OPTIONS
1 OF 3
☐ 2CH (FR_FL)
☐ 2.1CH (LFE_FR_FL)
☐ 3CH (FC_FR_FL)
☐ 3.1CH (FC_LFE_FR_FL)
☐ 3CH (RC_FR_FL)
☐ 3.1CH (RC_LFE_FR_FL)
☐ 4CH (RC_FC_FR_FL)
☐ 4.1CH (RC_FC_LFE_FR_FL)
☐ 4CH (RR_RL_FR_FL)
☐ 4.1CH (RR_RL_LFE_FR_FL)
☐ 5CH (RR_RL_FC_FR_FL)
☐ 5.1CH (RR_RL_FC_LFE_FR_FL)
☐ 5CH (RC_RR_RL_FR_FL,)
☐ 5.1CH (RC_RR_RL_LFE_FR_FL)
▼ SCROLL DOWN
MURIDEO

PLease select required audio channel config,
by using navigation buttons.
Press OK button to execute.


AUDIO GENERATOR
PCM AUDIO
☐ AUDIO SAMPLING RATE
☐ AUDIO BIT DEPTH
☐ SINEWAVE TONE
☐ AUDIO VOLUME
■ AUDIO CHANNEL CONFIG
INFO
OPTIONS
2 OF 3
☐ 6CH (RC_RR_RL_FC_FR_FL)
☐ 6.1CH (RC_RR_RL_FC_LFE_FR_FL)
☐ 6CH (RRC_RLC_RR_RL_FR_FL)
☐ 6.1CH (RRC_RLC_RR_RL_LFE_FR_FL)
☐ 7CH (RRC_RLC_RR_RL_FC_FR_FL)
☐ 7.1CH (RRC_RLC_RR_RL_FC_LFE_FR_FL)
☐ 4CH (FRC_FLC_FR_FL)
☐ 4.1CH (FRC_FLC_LFE_FR_FL)
☐ 5CH (FRC_FLC_FC_FR_FL)
☐ 5.1CH (FRC_FLC_FC_LFE_FR_FL)
☐ 5CH (FRC_FLC_RC_FR_FL)
☐ 5.1CH (FRC_FLC_RC_FC_FR_FL)
☐ 6CH (FRC_FLC_RC_FC_FR_FL)
☐ 6.1CH (FRC_FLC_RC_FC_LFE_FR_FL)
▼ SCROLL DOWN
MURIDEO

PLease select required audio channel config,
by using navigation buttons.
Press OK button to execute.

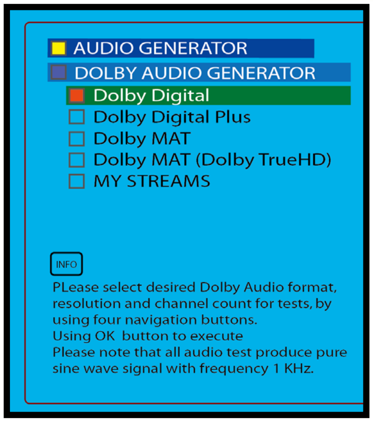

AUDIO GENERATOR
PCM AUDIO
☐ AUDIO SAMPLING RATE
☐ AUDIO BIT DEPTH
☐ SINEWAVE TONE
☐ AUDIO VOLUME
■ AUDIO CHANNEL CONFIG
INFO
OPTIONS
3 OF 3
☐ 6CH (FRC_FLC_RR_RL_FR_FL)
☐ 6.1CH (FRC_FLC_RR_RL_LFE_FR_FL)
☐ 7CH (FRC_FLC_RR_RL_FC_FR_FL)
☐ 7.1CH (FRC_FLC_RR_RL_FC_LFE_FR_FL)
MURIDEO

PLease select required audio channel config,
by using navigation buttons.
Press OK button to execute.

DOLBY AUDIO GENERATOR:

There are 5 options under the Dolby Audio Generator. These options include:

- Dolby Digital
- Dolby Digital Plus
- Dolby MAT
- Dolby MAT (Dolby TrueHD)
- My Streams

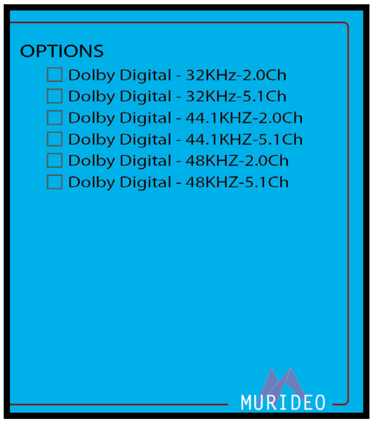

AUDIO GENERATOR
DOLBY AUDIO GENERATOR
Dolby Digital
☐ Dolby Digital Plus
☐ Dolby MAT
☐ Dolby MAT (Dolby TrueHD)
☐ MY STREAMS
INFO

PLease select desired Dolby Audio format, resolution and channel count for tests, by using four navigation buttons.
Using OK button to execute
Please note that all audio test produce pure sine wave signal with frequency 1 KHz.

DOLBY DIGITAL:

There are 6 options under the Dolby Digital. These options include:

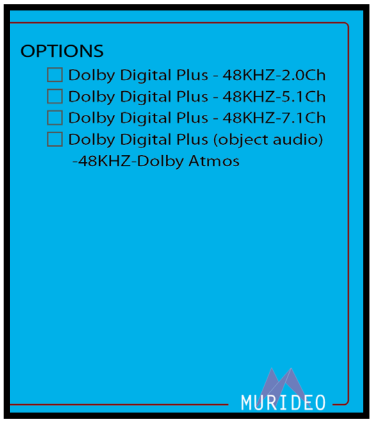
- Dolby Digital - 32KHz 2.0Ch
- Dolby Digital - 32KHz 5.1Ch
- Dolby Digital - 44.1KHz 2.0Ch
- Dolby Digital - 44.1KHz 5.1Ch
- Dolby Digital - 48KHz 2.0Ch
- Dolby Digital - 48KHz 5.1Ch


OPTIONS
☐ Dolby Digital - 32KHz-2.0Ch
☐ Dolby Digital - 32KHz-5.1Ch
☐ Dolby Digital - 44.1KHZ-2.0Ch
☐ Dolby Digital - 44.1KHZ-5.1Ch
☐ Dolby Digital - 48KHZ-2.0Ch
☐ Dolby Digital - 48KHZ-5.1Ch
MURIDEO

DOLBY DIGITAL PLUS:

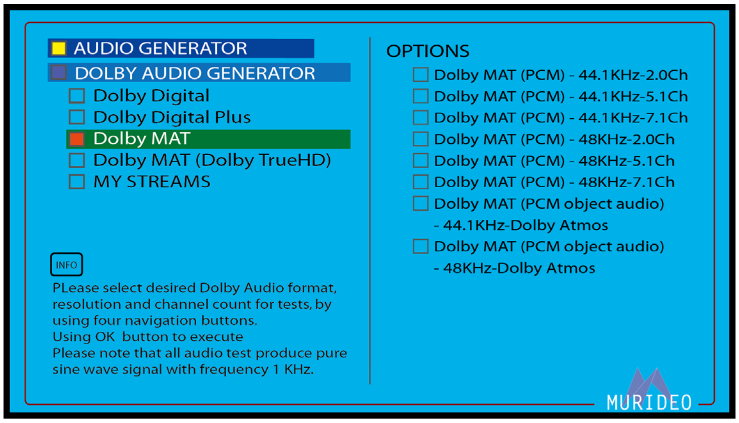
There are 4 options under the Dolby Digital Plus. These options include:

- Dolby Digital Plus- 48KHz - 2.0Ch
- Dolby Digital Plus- 48KHz - 5.1Ch
- Dolby Digital Plus- 48KHz - 7.1Ch
- Dolby Digital Plus (object audio) 48KHz - Dolby Atmos


OPTIONS
☐ Dolby Digital Plus - 48KHZ-2.0Ch
☐ Dolby Digital Plus - 48KHZ-5.1Ch
☐ Dolby Digital Plus - 48KHZ-7.1Ch
☐ Dolby Digital Plus (object audio) -48KHZ-Dolby Atmos
MURIDEO

DOLBY MAT:

There are 8 options under Dolby Digital Plus. These options include:


AUDIO GENERATOR
DOLBY AUDIO GENERATOR
☐ Dolby Digital
☐ Dolby Digital Plus
■ Dolby MAT
☐ Dolby MAT (Dolby TrueHD)
☐ MY STREAMS
OPTIONS
☐ Dolby MAT (PCM) - 44.1KHz-2.0Ch
☐ Dolby MAT (PCM) - 44.1KHz-5.1Ch
☐ Dolby MAT (PCM) - 44.1KHz-7.1Ch
☐ Dolby MAT (PCM) - 48KHz-2.0Ch
☐ Dolby MAT (PCM) - 48KHz-5.1Ch
☐ Dolby MAT (PCM) - 48KHz-7.1Ch
☐ Dolby MAT (PCM object audio) - 44.1KHz-Dolby Atmos
☐ Dolby MAT (PCM object audio) - 48KHz-Dolby Atmos
INFO
MURIDEO

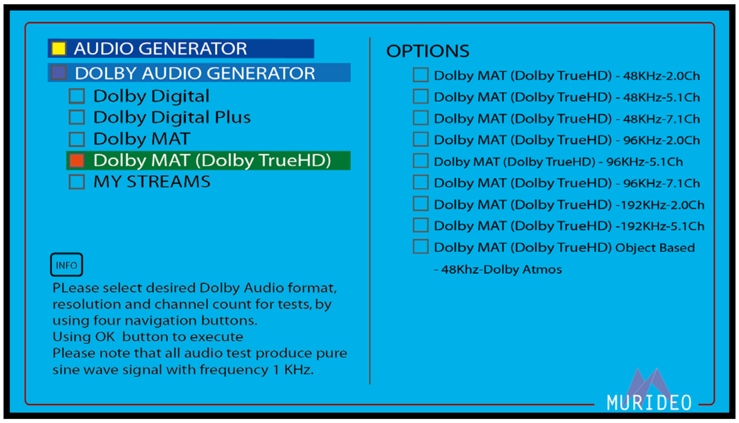
PLease select desired Dolby Audio format, resolution and channel count for tests, by using four navigation buttons.
Using OK button to execute
Please note that all audio test produce pure sine wave signal with frequency 1 KHz.

- Dolby MAT (PCM) - 44.1KHz - 2.0Ch
- Dolby MAT (PCM) - 44.1KHz - 5.1Ch
- Dolby MAT (PCM) - 44.1KHz - 7.1Ch
- Dolby MAT (PCM) - 48KHz - 2.0 Ch
- Dolby MAT (PCM) - 48KHz - 5.1Ch
- Dolby MAT (PCM) - 48KHz - 7.1Ch
- Dolby MAT (PCM object audio) - 44.1KHz - Dolby Atmos
- Dolby MAT (PCM object audio) - 48KHz - Dolby Atmos

DOLBY MAT (Dolby TrueHD):

There are 9 options under Dolby MAT (Dolby TrueHD). These options include:

- Dolby MAT (Dolby TrueHD) - 48KHz - 2.0Ch
- Dolby MAT (Dolby TrueHD) - 48KHz - 5.1Ch
- Dolby MAT (Dolby TrueHD) - 48KHz - 7.1Ch
- Dolby MAT (Dolby TrueHD) - 96KHz - 2.0Ch
- Dolby MAT (Dolby TrueHD) - 96KHz - 5.1Ch
- Dolby MAT (Dolby TrueHD) - 96KHz - 7.1Ch
- Dolby MAT (Dolby TrueHD) - 192KHz - 2.0Ch
- Dolby MAT (Dolby TrueHD) - 192KHz - 5.1Ch
- Dolby MAT (Dolby TrueHD) Object Based - 48KHz Dolby Atmos

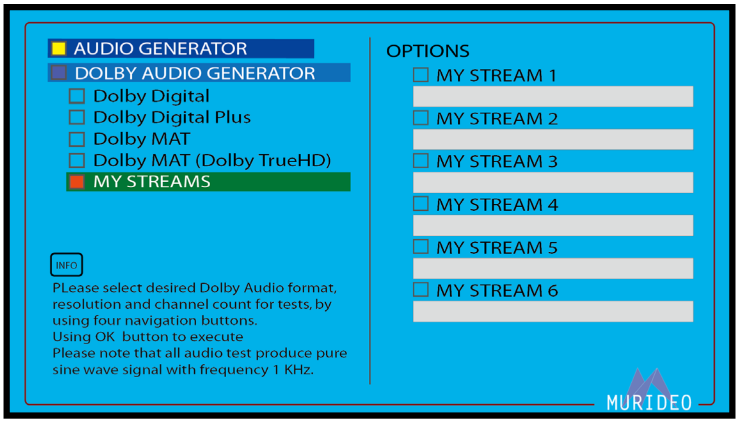

AUDIO GENERATOR
DOLBY AUDIO GENERATOR
☐ Dolby Digital
☐ Dolby Digital Plus
☐ Dolby MAT
■ Dolby MAT (Dolby TrueHD)
☐ MY STREAMS
OPTIONS
☐ Dolby MAT (Dolby TrueHD) - 48KHz-2.0Ch
☐ Dolby MAT (Dolby TrueHD) - 48KHz-5.1Ch
☐ Dolby MAT (Dolby TrueHD) - 48KHz-7.1Ch
☐ Dolby MAT (Dolby TrueHD) - 96KHz-2.0Ch
☐ Dolby MAT (Dolby TrueHD) - 96KHz-5.1Ch
☐ Dolby MAT (Dolby TrueHD) - 96KHz-7.1Ch
☐ Dolby MAT (Dolby TrueHD) -192KHz-2.0Ch
☐ Dolby MAT (Dolby TrueHD) -192KHz-5.1Ch
☐ Dolby MAT (Dolby TrueHD) Object Based - 48Khz-Dolby Atmos
INFO
MURIDEO

PLease select desired Dolby Audio format, resolution and channel count for tests, by using four navigation buttons.
Using OK button to execute
Please note that all audio test produce pure sine wave signal with frequency 1 KHz.

MY STREAMS:

Use this page to select one of the 6 custom uploaded Dolby audio streams.

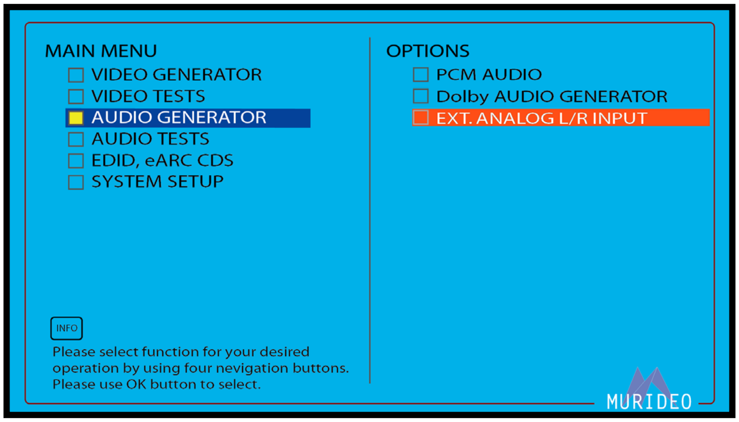
NOTE: The Audio Uploader Software with instructions are available at www.murideo.com


AUDIO GENERATOR
DOLBY AUDIO GENERATOR
☐ Dolby Digital
☐ Dolby Digital Plus
☐ Dolby MAT
☐ Dolby MAT (Dolby TrueHD)
☐ MY STREAMS
INFO
OPTIONS
☐ MY STREAM 1
☐ MY STREAM 2
☐ MY STREAM 3
☐ MY STREAM 4
☐ MY STREAM 5
☐ MY STREAM 6
MURIDEO

PLease select desired Dolby Audio format,
resolution and channel count for tests, by
using four navigation buttons.
Using OK button to execute
Please note that all audio test produce pure
sine wave signal with frequency 1 KHz.

EXT. ANALOG L/R INPUT:

If using an external audio source via the 3.5mm Ext. Audio Input, use this menu to switch from internal audio generator to the ext. audio source.
Note: 2 Ch PCM audio only.

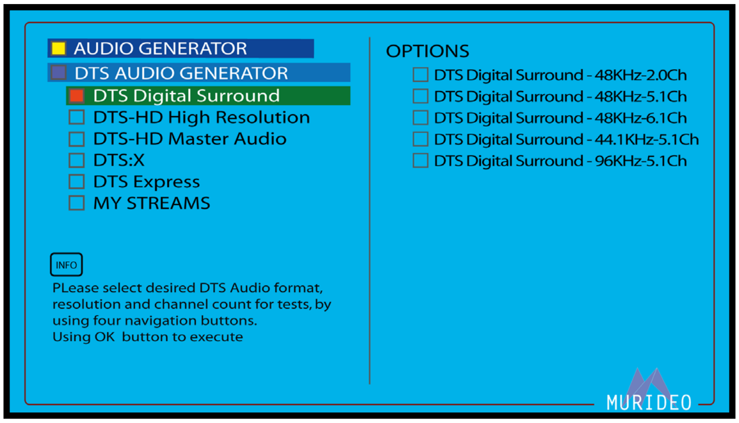

MAIN MENU
☐ VIDEO GENERATOR
☐ VIDEO TESTS
☐ AUDIO GENERATOR
☐ AUDIO TESTS
☐ EDID, eARC CDS
☐ SYSTEM SETUP
INFO
OPTIONS
☐ PCM AUDIO
☐ Dolby AUDIO GENERATOR
☐ EXT. ANALOG L/R INPUT
MURIDEO

Please select function for your desired
operation by using four nevigation buttons.
Please use OK button to select.

DTS AUDIO GENERATOR:

There are 6 options under DTS Audio Generator. These options include:

- DTS Digital Surround
- DTS-HD High Resolution
- DTS-HD Master Audio
- DTS:X
- DTS Express
- MY STREAMS

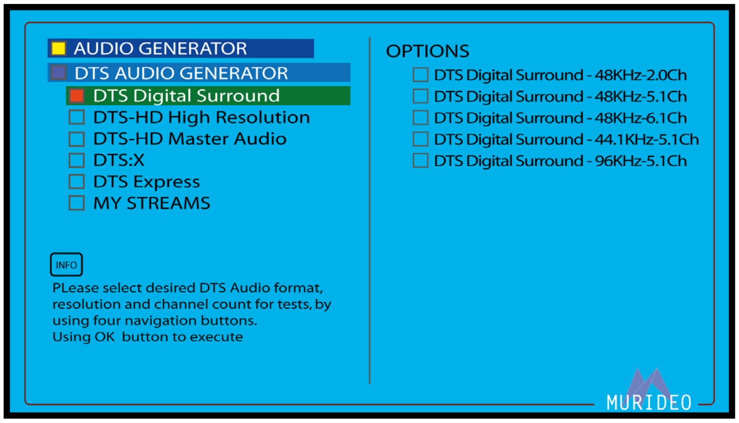

AUDIO GENERATOR
DTS AUDIO GENERATOR
☐ DTS Digital Surround
☐ DTS-HD High Resolution
☐ DTS-HD Master Audio
☐ DTS:X
☐ DTS Express
☐ MY STREAMS
INFO
OPTIONS
☐ DTS Digital Surround - 48KHz-2.0Ch
☐ DTS Digital Surround - 48KHz-5.1Ch
☐ DTS Digital Surround - 48KHz-6.1Ch
☐ DTS Digital Surround - 44.1KHz-5.1Ch
☐ DTS Digital Surround - 96KHz-5.1Ch
MURIDEO

PLease select desired DTS Audio format,
resolution and channel count for tests, by
using four navigation buttons.
Using OK button to execute

DTS DIGITAL SURROUND:

There are 5 options under DTS Digital Surround. These options include:

- DTS Digital Surround - 48KHz - 2.0Ch
- DTS Digital Surround - 48KHz - 5.1Ch
- DTS Digital Surround - 48KHz - 6.1Ch
- DTS Digital Surround - 44.1KHz - 5.1Ch
- DTS Digtal Surround - 96KHz - 5.1Ch

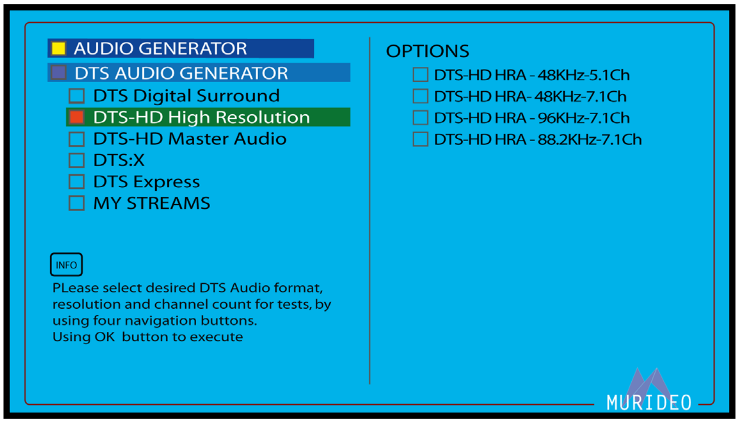

AUDIO GENERATOR
DTS AUDIO GENERATOR
DTS Digital Surround
☐ DTS-HD High Resolution
☐ DTS-HD Master Audio
☐ DTS:X
☐ DTS Express
☐ MY STREAMS
OPTIONS
☐ DTS Digital Surround - 48KHz-2.0Ch
☐ DTS Digital Surround - 48KHz-5.1Ch
☐ DTS Digital Surround - 48KHz-6.1Ch
☐ DTS Digital Surround - 44.1KHz-5.1Ch
☐ DTS Digital Surround - 96KHz-5.1Ch
INFO
MURIDEO

PLease select desired DTS Audio format, resolution and channel count for tests, by using four navigation buttons. Using OK button to execute

DTS-HD High Resolution:

There are 4 options under DTS Digital Surround. These options include:

- DTS-HD HRA - 48KHz - 5.1Ch
- DTS HD HRA - 48KHz - 7.1Ch
- DTS HD HRA - 96KHz - 7.1Ch
- DTS HD HRA - 88.2KHz - 7.1Ch

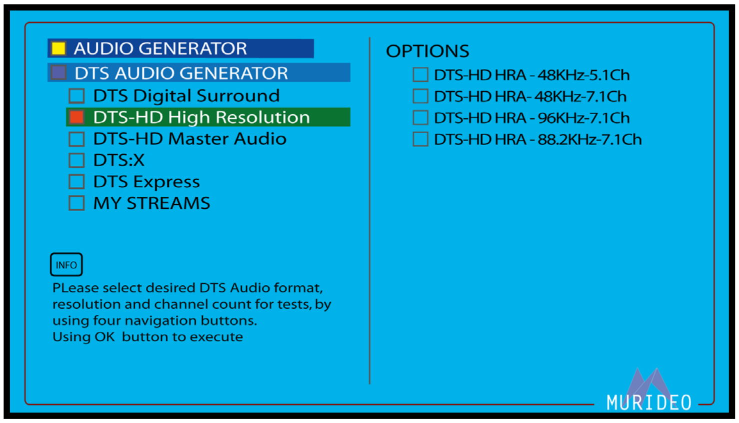

AUDIO GENERATOR
DTS AUDIO GENERATOR
☐ DTS Digital Surround
DTS-HD High Resolution
☐ DTS-HD Master Audio
☐ DTS:X
☐ DTS Express
☐ MY STREAMS
OPTIONS
☐ DTS-HD HRA - 48KHz-5.1Ch
☐ DTS-HD HRA- 48KHz-7.1Ch
☐ DTS-HD HRA - 96KHz-7.1Ch
☐ DTS-HD HRA - 88.2KHz-7.1Ch
INFO
MURIDEO

PLease select desired DTS Audio format, resolution and channel count for tests, by using four navigation buttons. Using OK button to execute

DTS-HD Master Audio:

There are 4 options under DTS-HD High Resoluktions . These options include:

- DTS-HD MA - 48KHz - 5.1Ch
- DTS HD MA - 48KHz - 7.1Ch
- DTS HD MA - 196KHz - 2.0Ch
- DTS HD HRA - 196KHz - 7.1Ch

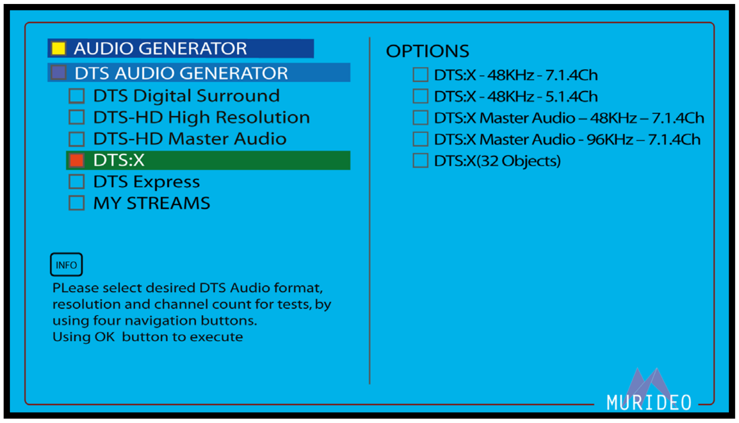

AUDIO GENERATOR
DTS AUDIO GENERATOR
☐ DTS Digital Surround
DTS-HD High Resolution
☐ DTS-HD Master Audio
☐ DTS:X
☐ DTS Express
☐ MY STREAMS
OPTIONS
☐ DTS-HD HRA - 48KHz-5.1Ch
☐ DTS-HD HRA- 48KHz-7.1Ch
☐ DTS-HD HRA - 96KHz-7.1Ch
☐ DTS-HD HRA - 88.2KHz-7.1Ch
INFO
MURIDEO

PLease select desired DTS Audio format, resolution and channel count for tests, by using four navigation buttons. Using OK button to execute

DTS-X:

There are 5 options under DTS-X. These options include:

- DTS:X - 48KHz - 7.1.4Ch
- DTS:X - 48KHz - 5.1.4Ch
- DTS:X Master Audio - 48KHz - 7.1.4Ch
- DTS:X Master Audio - 96KHz - 7.1.4Ch
- DTS:X(32 Objects)

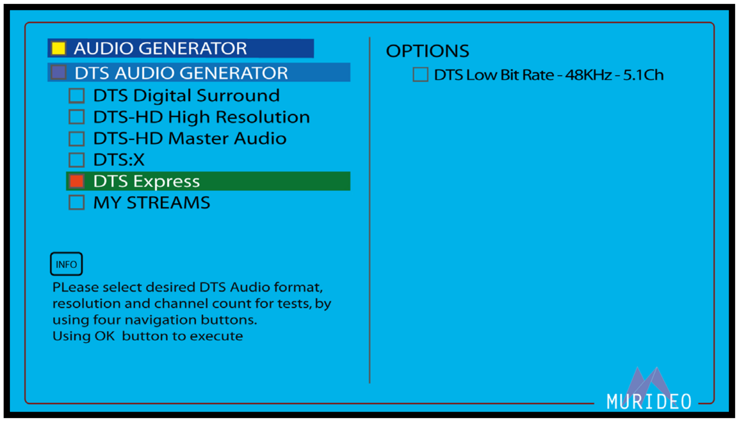

AUDIO GENERATOR
DTS AUDIO GENERATOR
☐ DTS Digital Surround
☐ DTS-HD High Resolution
☐ DTS-HD Master Audio
DTS:X
☐ DTS Express
☐ MY STREAMS
INFO
OPTIONS
☐ DTS:X - 48KHz - 7.1.4Ch
☐ DTS:X - 48KHz - 5.1.4Ch
☐ DTS:X Master Audio – 48KHz – 7.1.4Ch
☐ DTS:X Master Audio - 96KHz – 7.1.4Ch
☐ DTS:X(32 Objects)
MURIDEO

PLease select desired DTS Audio format, resolution and channel count for tests, by using four navigation buttons. Using OK button to execute

DTS Express:

There is 1 option under DTS Express:

- DTS Low Bit Rate - 48KHz - 5.1Ch

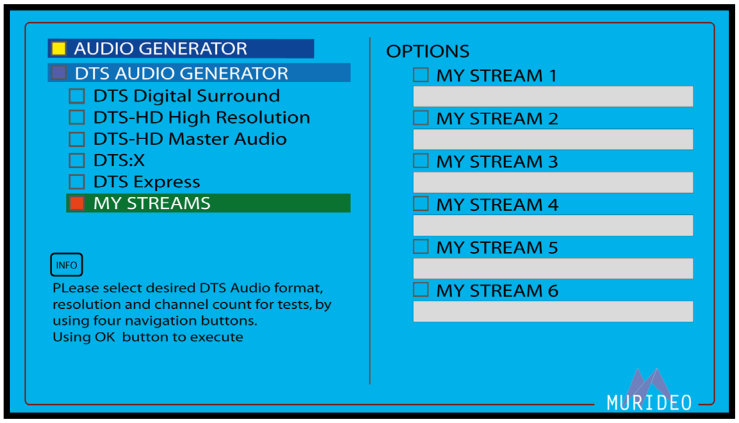

AUDIO GENERATOR
DTS AUDIO GENERATOR
☐ DTS Digital Surround
☐ DTS-HD High Resolution
☐ DTS-HD Master Audio
☐ DTS:X
DTS Express
☐ MY STREAMS
INFO
OPTIONS
☐ DTS Low Bit Rate - 48KHz - 5.1Ch
MURIDEO

PLease select desired DTS Audio format, resolution and channel count for tests, by using four navigation buttons. Using OK button to execute

MY STREAMS:

Use this page to select one of the 6 custom uploaded DTS audio streams.

NOTE: The Audio Uploader Software with instructions are available at www.murideo.com

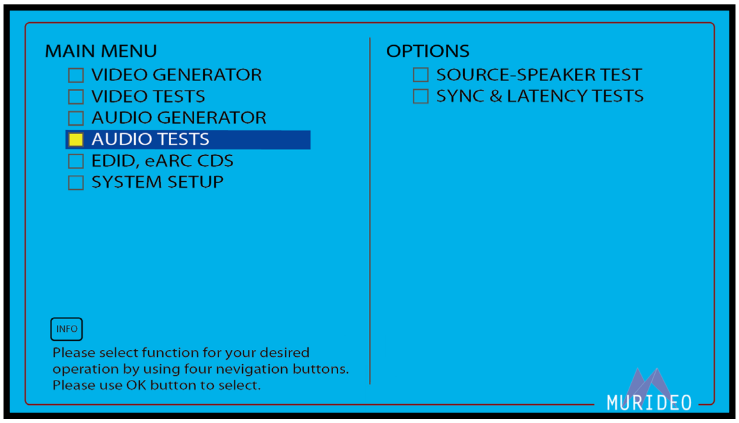

AUDIO GENERATOR
DTS AUDIO GENERATOR
☐ DTS Digital Surround
☐ DTS-HD High Resolution
☐ DTS-HD Master Audio
☐ DTS:X
☐ DTS Express
MY STREAMS
INFO
OPTIONS
☐ MY STREAM 1
☐ MY STREAM 2
☐ MY STREAM 3
☐ MY STREAM 4
☐ MY STREAM 5
☐ MY STREAM 6
MURIDEO

PLease select desired DTS Audio format, resolution and channel count for tests, by using four navigation buttons. Using OK button to execute

AUDIO TESTS:

There are 2 options under the Audio Tests menu. These options include:

- SOURCE SPEAKER TEST (multiple options available. See below)
- SYNC & LATENCY TEST (this test is designed to be used with the included Visual Light Sensor and Mini XLR Microphone)

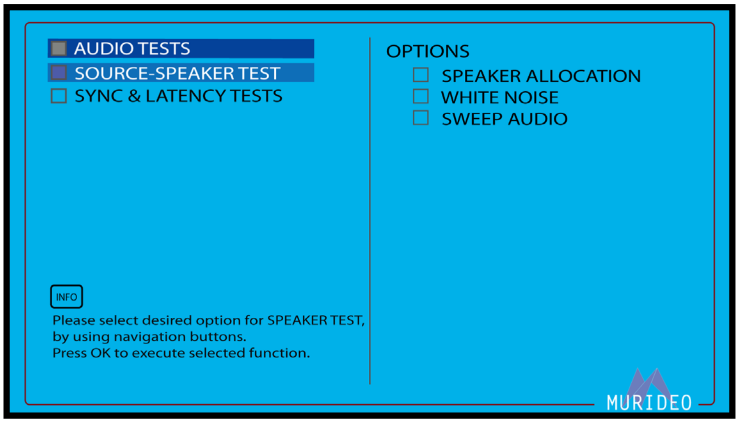

MAIN MENU
☐ VIDEO GENERATOR
☐ VIDEO TESTS
☐ AUDIO GENERATOR
■ AUDIO TESTS
☐ EDID, eARC CDS
☐ SYSTEM SETUP
OPTIONS
☐ SOURCE-SPEAKER TEST
☐ SYNC & LATENCY TESTS
INFO
MURIDEO

Please select function for your desired operation by using four nevigation buttons. Please use OK button to select.

SOURCE-SPEAKER TEST:

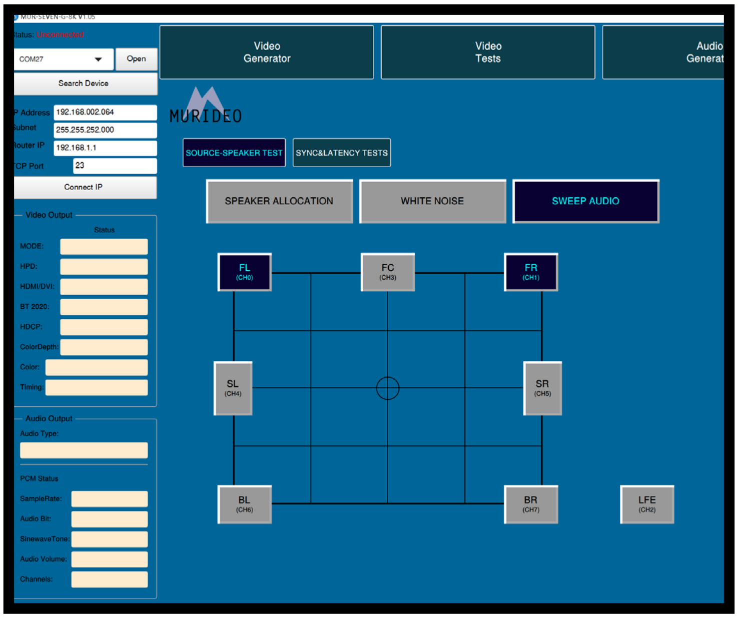
There are 3 options under Source-Speaker Test. These include:

- SPEAKER ALLOCATION - Audio confidence test used to ensure speaker outputs (from AVR or Audio Amplifier) are connected to the correct Channels/Speakers.
- WHITE NOISE - Audio confidence test used to ensure system/speakers are performing as expected
- SWEEP AUDIO - Audio confidence test. Starting with a low frequency (20Hz) and building to a high frequency (20KHz) these test tones can be used to measure room acoustics with a microphone. Or this can be used to ensure speaker are operating as expected.
- NOTE: If using the SEVEN-G-8K's front panel controls, you will hear the test tone through every speaker in the system. If using the PC Control Software you can choose single specific channels or any combination of Channels. See examples on next page.


■ AUDIO TESTS
■ SOURCE-SPEAKER TEST
☐ SYNC & LATENCY TESTS
OPTIONS
☐ SPEAKER ALLOCATION
☐ WHITE NOISE
☐ SWEEP AUDIO
INFO
MURIDEO

Please select desired option for SPEAKER TEST, by using navigation buttons. Press OK to execute selected function.

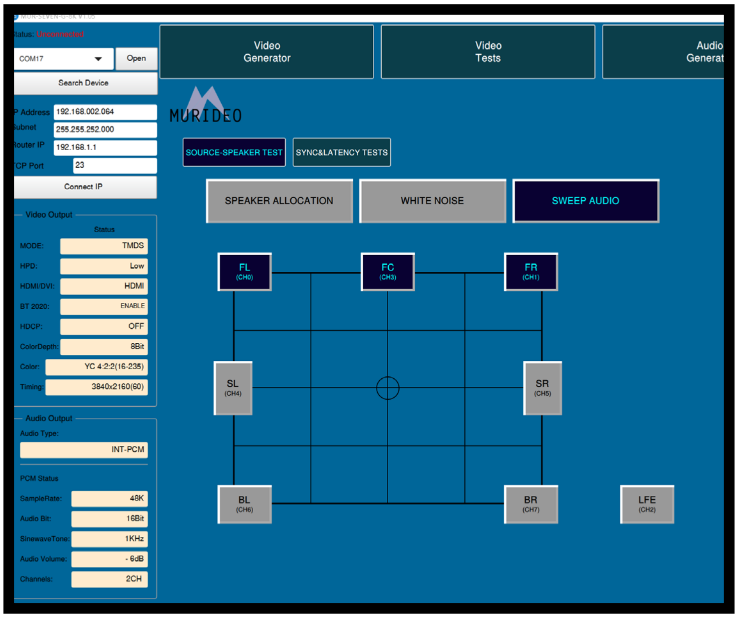
- FL (Front Left Channel Selected)
- FR (Front Right Channel Selected)



MUR-SEVEN-G-8K V1.05
Open
Search Device
Connect IP
Video Output
Status
Audio Output
PCM Status
Video Generator
Video Tests
Audio Generat
MURIDEO
SOURCE-SPEAKER TEST
SYNC&LATENCY TESTS
SPEAKER ALLOCATION
WHITE NOISE
SWEEP AUDIO
FL (CH0)
FC (CH3)
FR (CH1)
SL (CH4)
SR (CH5)
BL (CH6)
BR (CH7)
LFE (CH2)

tatus: Unconnected
COM27
P Address 192.168.002.064
ubnet 255.255.252.000
outer IP 192.168.1.1
CP Port 23
MODE:
HPD:
HDMI/DVI:
BT 2020:
HDCP:
ColorDepth:
Color:
Timing:
Audio Type:
SampleRate:
Audio Bit:
SinewaveTone:
Audio Volume:
Channels:

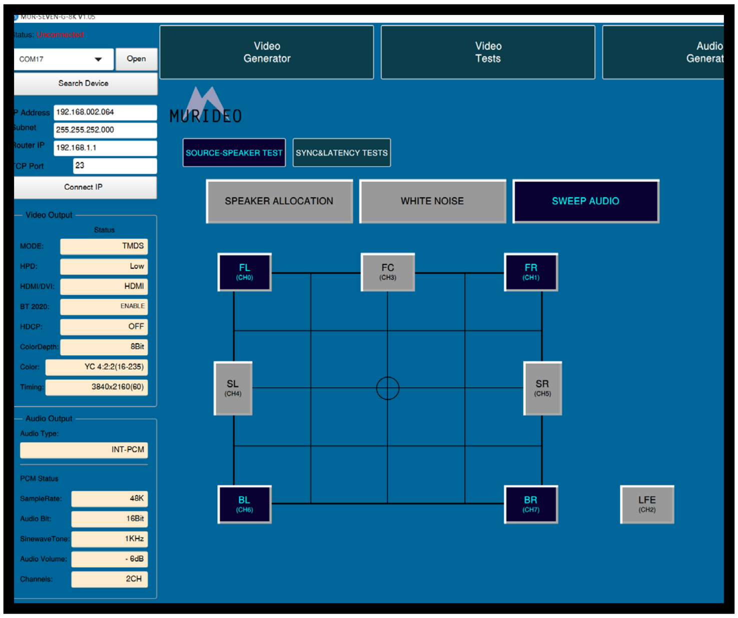
- FL (Front Left Channel Selected)
- FR (Front Right Channel Selected)
- FC (Front Center Channel Selected)



MUR-SEVEN-G-8K V1.05
Open
Search Device
Connect IP
Video Output
Status
Audio Output
PCM Status
Video Generator
Video Tests
Audio Generat
MURIDEO
SOURCE-SPEAKER TEST
SYNC&LATENCY TESTS
SPEAKER ALLOCATION
WHITE NOISE
SWEEP AUDIO
FL (CH0)
FC (CH3)
FR (CH1)
SL (CH4)
SR (CH5)
BL (CH6)
BR (CH7)
LFE (CH2)

tatus: Unconnected
COM17
P Address 192.168.002.064
ubnet 255.255.252.000
outer IP 192.168.1.1
CP Port 23
MODE: TMDS
HPD: Low
HDMI/DVI: HDMI
BT 2020: ENABLE
HDCP: OFF
ColorDepth: 8Bit
Color: YC 4:2:2(16-235)
Timing: 3840x2160(60)
Audio Type: INT-PCM
SampleRate: 48K
Audio Bit: 16Bit
SinewaveTone: 1KHz
Audio Volume: - 6dB
Channels: 2CH

- FL (Front Left Channel Selected)
- FR (Front Right Channel Selected)
- BL (Back Left Channel Selected)
- BR (Back Right Channel Selected)



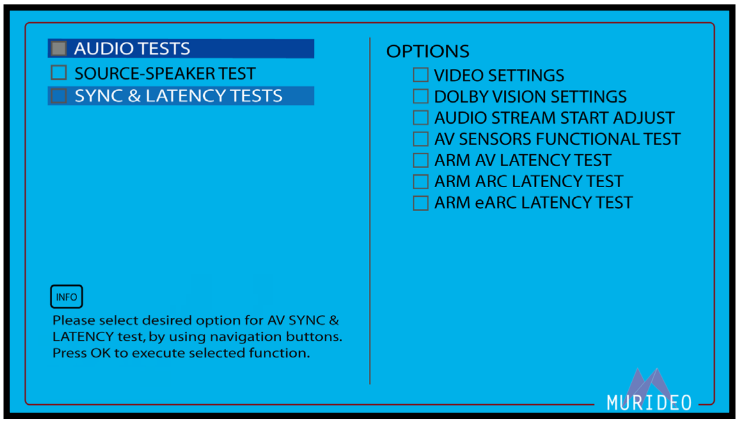
MUR-SEVEN-G-8K V1.05
Open
Search Device
Connect IP
Video Output
Status
Audio Output
PCM Status
Video Generator
Video Tests
Audio Generat
MURIDEO
SOURCE-SPEAKER TEST
SYNC&LATENCY TESTS
SPEAKER ALLOCATION
WHITE NOISE
SWEEP AUDIO
FL (CH0)
FC (CH3)
FR (CH1)
SL (CH4)
SR (CH5)
BL (CH6)
BR (CH7)
LFE (CH2)

tatus: Unconnected
COM17
P Address 192.168.002.064
ubnet 255.255.252.000
outer IP 192.168.1.1
CP Port 23
MODE: TMDS
HPD: Low
HDMI/DVI: HDMI
BT 2020: ENABLE
HDCP: OFF
ColorDepth: 8Bit
Color: YC 4:2:2(16-235)
Timing: 3840x2160(60)
Audio Type: INT-PCM
SampleRate: 48K
Audio Bit: 16Bit
SinewaveTone: 1KHz
Audio Volume: - 6dB
Channels: 2CH

SYNC & LATENCY TESTS:

There are 7 options under the SYNC & LATENCY TEST. These options include:

- Video Settings
- Dolby Vision Settings
- Audio Stream Start adjust
- AV Sensors Funcional Test
- ARM AV Latency Test
- ARM eARC Latency Test


AUDIO TESTS
☐ SOURCE-SPEAKER TEST
☐ SYNC & LATENCY TESTS
OPTIONS
☐ VIDEO SETTINGS
☐ DOLBY VISION SETTINGS
☐ AUDIO STREAM START ADJUST
☐ AV SENSORS FUNCTIONAL TEST
☐ ARM AV LATENCY TEST
☐ ARM ARC LATENCY TEST
☐ ARM eARC LATENCY TEST
INFO
MURIDEO

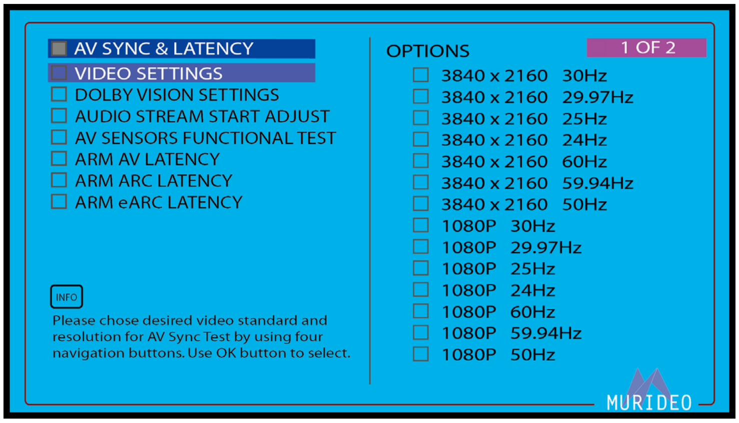
Please select desired option for AV SYNC & LATENCY test, by using navigation buttons. Press OK to execute selected function.

Note: More details on each of the above options are described below.

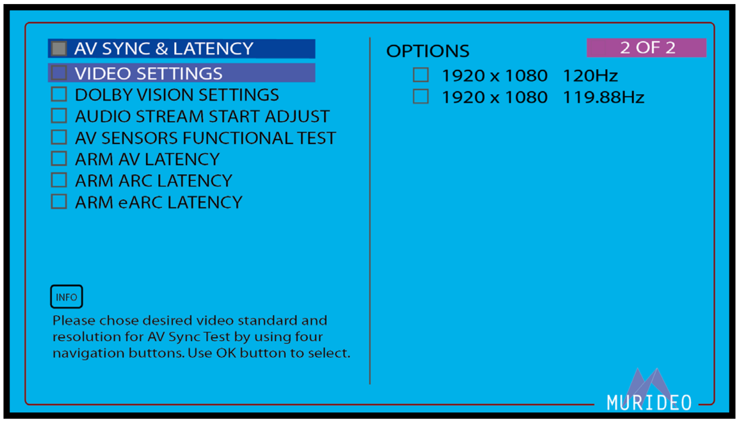
VIDEO SETTINGS:

Choose the Output Video Resolution for the AV SYNC & LATENCY tests.
The resolutions options available are:

- 3840 x 2160 30Hz
- 3840 x 2160 29.97Hz
- 3840 x 2160 25Hz
- 3840 x 2160 24Hz
- 3840 x 2160 60Hz
- 3840 x 2160 59.94Hz
- 3840 x 2160 50Hz
- 1080P 30Hz
- 1080P 29.97Hz
- 1080P 25Hz
- 1080P 24Hz
- 1080P 60Hz
- 1080P 59.94Hz
- 1080P 50Hz
- 1920 x 1080 120Hz
- 1920 x 1080 119.88Hz


AV SYNC & LATENCY
☐ VIDEO SETTINGS
☐ DOLBY VISION SETTINGS
☐ AUDIO STREAM START ADJUST
☐ AV SENSORS FUNCTIONAL TEST
☐ ARM AV LATENCY
☐ ARM ARC LATENCY
☐ ARM eARC LATENCY
OPTIONS
1 OF 2
☐ 3840 x 2160 30Hz
☐ 3840 x 2160 29.97Hz
☐ 3840 x 2160 25Hz
☐ 3840 x 2160 24Hz
☐ 3840 x 2160 60Hz
☐ 3840 x 2160 59.94Hz
☐ 3840 x 2160 50Hz
☐ 1080P 30Hz
☐ 1080P 29.97Hz
☐ 1080P 25Hz
☐ 1080P 24Hz
☐ 1080P 60Hz
☐ 1080P 59.94Hz
☐ 1080P 50Hz
INFO
MURIDEO

Please chose desired video standard and resolution for AV Sync Test by using four navigation buttons. Use OK button to select.

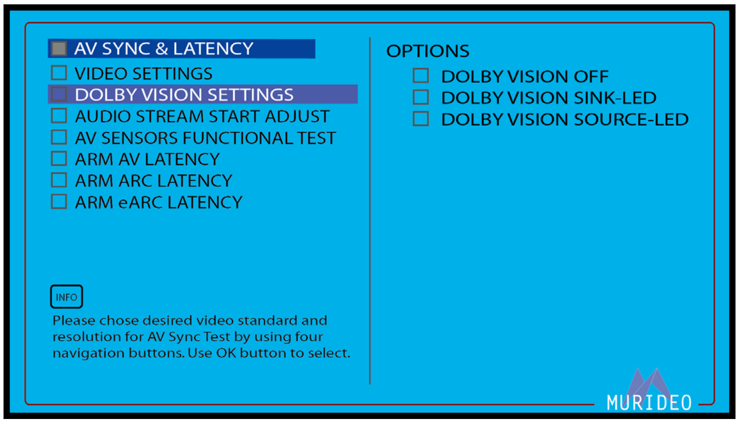

AV SYNC & LATENCY
☐ VIDEO SETTINGS
☐ DOLBY VISION SETTINGS
☐ AUDIO STREAM START ADJUST
☐ AV SENSORS FUNCTIONAL TEST
☐ ARM AV LATENCY
☐ ARM ARC LATENCY
☐ ARM eARC LATENCY
OPTIONS
2 OF 2
☐ 1920 x 1080 120Hz
☐ 1920 x 1080 119.88Hz
INFO
MURIDEO

Please chose desired video standard and resolution for AV Sync Test by using four navigation buttons. Use OK button to select.

DOLBY VISION SETTINGS:

This menu contains 3 options for Dolby Vision:

- DOLBY VISION OFF
- DOLBY VISION SINK - LED
- DOLBY VISION SOURCE - LED

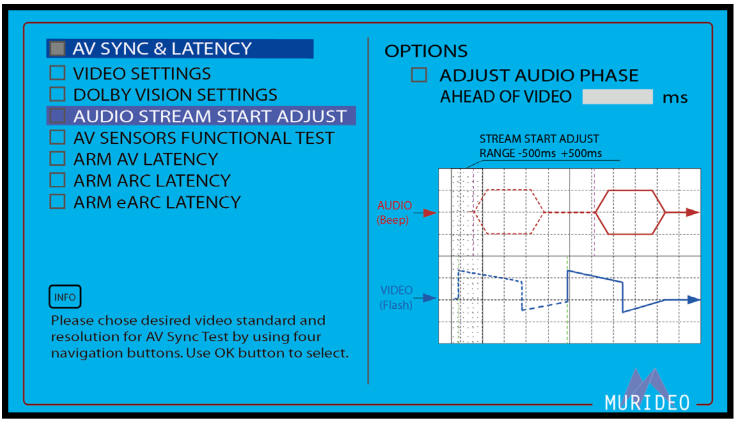

AV SYNC & LATENCY
☐ VIDEO SETTINGS
DOLBY VISION SETTINGS
☐ AUDIO STREAM START ADJUST
☐ AV SENSORS FUNCTIONAL TEST
☐ ARM AV LATENCY
☐ ARM ARC LATENCY
☐ ARM eARC LATENCY
INFO
OPTIONS
☐ DOLBY VISION OFF
☐ DOLBY VISION SINK-LED
☐ DOLBY VISION SOURCE-LED
MURIDEO

Please chose desired video standard and resolution for AV Sync Test by using four navigation buttons. Use OK button to select.

AUDIO STREAM START ADJUST:

This menu allows you to adjust the audio phase ahead of the video in ms (milliseconds).

NOTE: This can be adjusted from -500ms to 500ms in increments of 1ms.

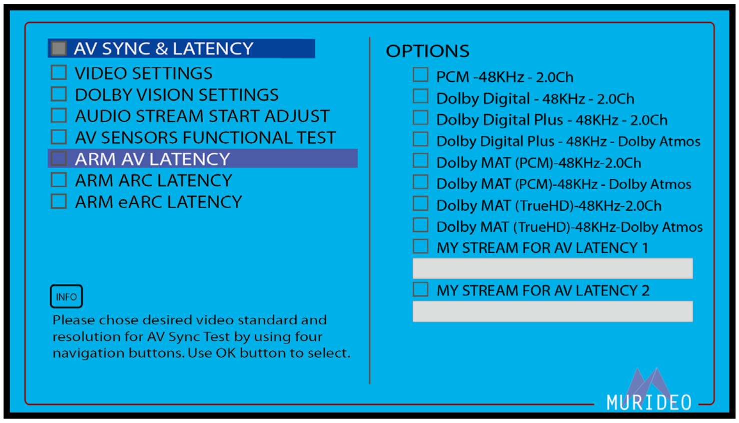

AV SYNC & LATENCY
☐ VIDEO SETTINGS
☐ DOLBY VISION SETTINGS
AUDIO STREAM START ADJUST
☐ AV SENSORS FUNCTIONAL TEST
☐ ARM AV LATENCY
☐ ARM ARC LATENCY
☐ ARM eARC LATENCY
INFO
OPTIONS
☐ ADJUST AUDIO PHASE
AHEAD OF VIDEO
ms
STREAM START ADJUST
RANGE -500ms +500ms
AUDIO
(Beep)
VIDEO
(Flash)
MURIDEO

Please chose desired video standard and resolution for AV Sync Test by using four navigation buttons. Use OK button to select.

ARM AV LATENCY:

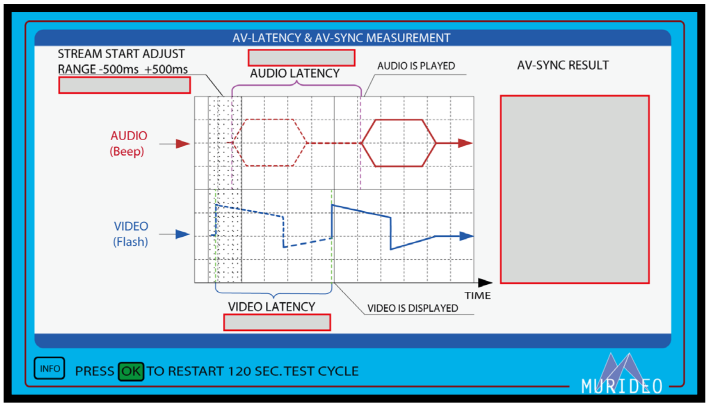
Choose the desired audio format that you will use for the selected AV latency test.

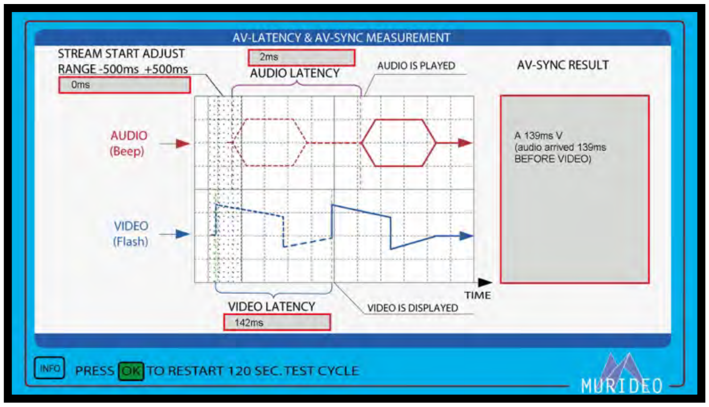
- PCM - 48KHz - 2.0 Ch
- Dolby Digital - 48KHz - 2.0 Ch
- Dolby Digital Plus - 48KHz - 2.0 Ch
- Dolby Digital Plus - 48KHz Dolby Atmos
- Dolby MAT (PCM) - 48KHz - 2.Ch
- Dolby MAT (PCM) - 48KHz - Dolby Atmos
- Dolby MAT (TrueHD) - 48KHz - 2.0 Ch
- Dolby MAT (TrueHD) - 48KHz - Dolby Atmos
- MY STREAM FOR AV LATENCY 1
- MY STREAM FOR AV LATENCY 2


AV SYNC & LATENCY
☐ VIDEO SETTINGS
☐ DOLBY VISION SETTINGS
☐ AUDIO STREAM START ADJUST
☐ AV SENSORS FUNCTIONAL TEST
☐ ARM AV LATENCY
☐ ARM ARC LATENCY
☐ ARM eARC LATENCY
OPTIONS
☐ PCM -48KHz - 2.0Ch
☐ Dolby Digital - 48KHz - 2.0Ch
☐ Dolby Digital Plus - 48KHz - 2.0Ch
☐ Dolby Digital Plus - 48KHz - Dolby Atmos
☐ Dolby MAT (PCM)-48KHz-2.0Ch
☐ Dolby MAT (PCM)-48KHz - Dolby Atmos
☐ Dolby MAT (TrueHD)-48KHz-2.0Ch
☐ Dolby MAT (TrueHD)-48KHz-Dolby Atmos
☐ MY STREAM FOR AV LATENCY 1
☐ MY STREAM FOR AV LATENCY 2
INFO
MURIDEO

Please chose desired video standard and resolution for AV Sync Test by using four navigation buttons. Use OK button to select.

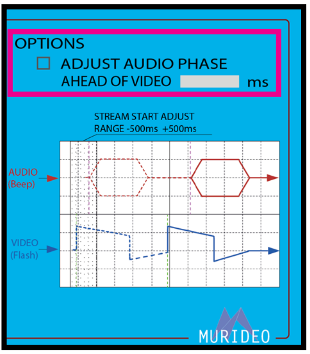
With the Microphone and Visual sensor connected to the SEVEN-G-8K and placed appropriately (visual probe centered on the display and microphone placed as close as possible to the speaker under test), press the green OK button to initiate the Audio Video Latency Test (note this test runs for 120 seconds and will restart each time you press the OK button).


AV-LATENCY & AV-SYNC MEASUREMENT
STREAM START ADJUST
RANGE -500ms +500ms
AUDIO LATENCY
AUDIO IS PLAYED
AV-SYNC RESULT
AUDIO
(Beep)
VIDEO
(Flash)
TIME
VIDEO LATENCY
VIDEO IS DISPLAYED
INFO
PRESS OK TO RESTART 120 SEC. TEST CYCLE
MURIDEO


AV-LATENCY & AV-SYNC MEASUREMENT
STREAM START ADJUST
RANGE -500ms +500ms
0ms
2ms
AUDIO LATENCY
AUDIO IS PLAYED
AV-SYNC RESULT
AUDIO
(Beep)
VIDEO
(Flash)
TIME
VIDEO LATENCY
142ms
VIDEO IS DISPLAYED
INFO
PRESS OK TO RESTART 120 SEC. TEST CYCLE
MURIDEO

A 139ms V
(audio arrived 139ms
BEFORE VIDEO)

Stream Start Adjust - This shows you in ms (milliseconds) the delay time you set using the Audio Stream Start Adjust (Pg.41). Once you run the initial test (with no adjustment) you can now use that data to delay the audio so it in sync with the video. The goal for this test is to have ZERO delay, meaning that the audio and video signals are arriving at the same time.

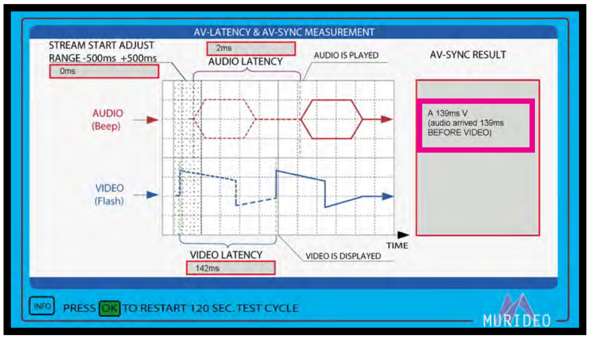

OPTIONS
☐ ADJUST AUDIO PHASE
AHEAD OF VIDEO
ms
STREAM START ADJUST
RANGE -500ms +500ms
AUDIO
(Beep)
VIDEO
(Flash)
MURIDEO

Audio Latency - This shows you (in milliseconds) the delay time of the audio being

sent versus being measured.
Video Latency - This shows you (in milliseconds) the delay time of the video being sent versus being measured.
AV-Sync Results - This shows the test results (in milliseconds) of the delay time between the audio and video signal.

NOTE: Use the data from the AV-Sync Results (example: audio arrived 139ms before video) to calibrate the audio delay in the Audio Stream Start Adjust menu (pg. 41).

AV-Latency & AV Sync Measurement Menu


AV-LATENCY & AV-SYNC MEASUREMENT
AUDIO IS PLAYED
AV-SYNC RESULT
AUDIO
(Beep)
VIDEO
(Flash)
TIME
VIDEO IS DISPLAYED
INFO
MURIDEO

STREAM START ADJUST
RANGE -500ms +500ms
0ms

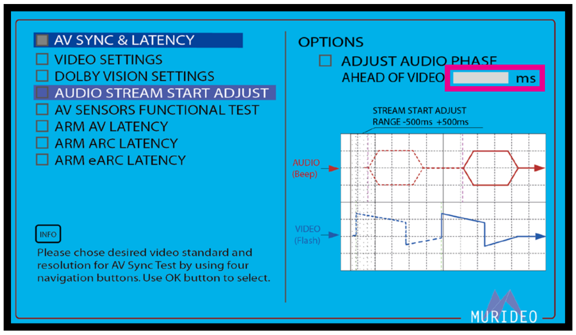
2ms
AUDIO LATENCY

A 139ms V
(audio arrived 139ms
BEFORE VIDEO)

VIDEO LATENCY
142ms

PRESS OK TO RESTART 120 SEC. TEST CYCLE

Audio Stream Start Adjust Menu

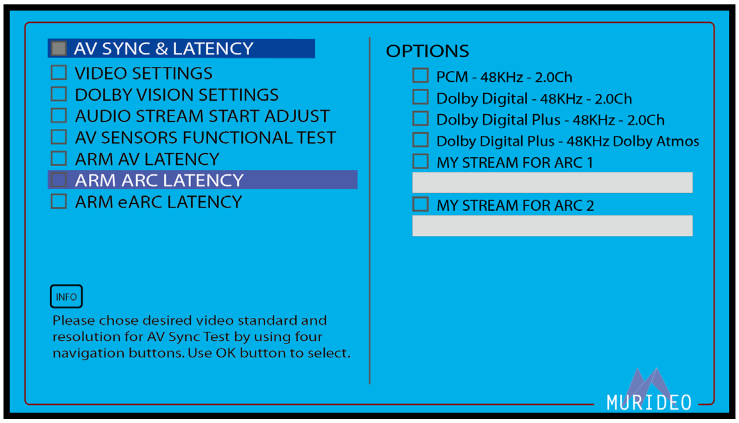

AV SYNC & LATENCY
☐ VIDEO SETTINGS
☐ DOLBY VISION SETTINGS
AUDIO STREAM START ADJUST
☐ AV SENSORS FUNCTIONAL TEST
☐ ARM AV LATENCY
☐ ARM ARC LATENCY
☐ ARM eARC LATENCY
INFO
OPTIONS
☐ ADJUST AUDIO PHASE
AHEAD OF VIDEO ms
STREAM START ADJUST
RANGE -500ms +500ms
AUDIO
(Beep)
VIDEO
(Flash)
MURIDEO

Please chose desired video standard and resolution for AV Sync Test by using four navigation buttons. Use OK button to select.

ARM ARC LATENCY:

Choose the desired audio format that you will use for the selected ARC latency test.

- PCM - 48KHz - 2.0 Ch
- Dolby Digital - 48KHz - 2.0 Ch
- Dolby Digital Plus - 48KHz Dolby Atmos
- MY STREAM FOR ARC 1
- MY STREAM FOR ARC 2

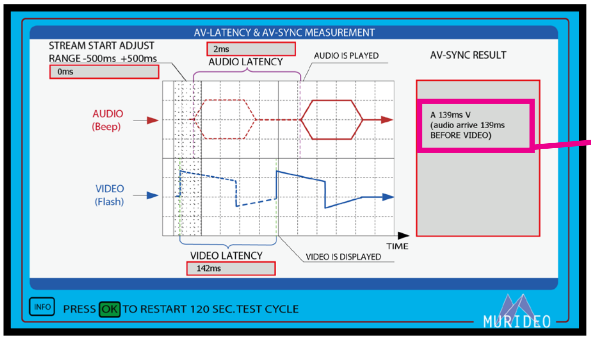

AV SYNC & LATENCY
☐ VIDEO SETTINGS
☐ DOLBY VISION SETTINGS
☐ AUDIO STREAM START ADJUST
☐ AV SENSORS FUNCTIONAL TEST
☐ ARM AV LATENCY
☐ ARM ARC LATENCY
☐ ARM eARC LATENCY
OPTIONS
☐ PCM - 48KHz - 2.0Ch
☐ Dolby Digital - 48KHz - 2.0Ch
☐ Dolby Digital Plus - 48KHz - 2.0Ch
☐ Dolby Digital Plus - 48KHz Dolby Atmos
☐ MY STREAM FOR ARC 1
☐ MY STREAM FOR ARC 2
INFO
MURIDEO

Please chose desired video standard and resolution for AV Sync Test by using four navigation buttons. Use OK button to select.

With the Microphone connected to the SEVEN-G-8K and placed as close as possible to the speaker under test, press the green OK button to initiate the ARC Audio Latency Test (note this test runs for 120 seconds and will restart each time you press the OK button).

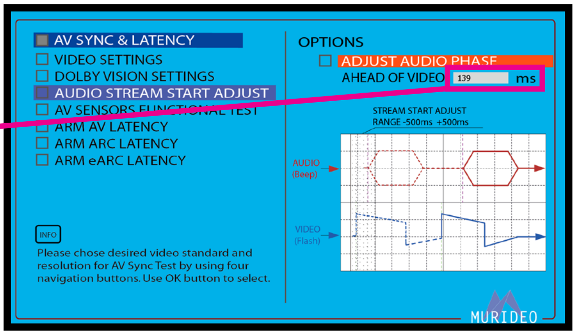
AV-Latency & AV Sync Measurement Menu

Audio Stream Start Adjust Menu


AV-LATENCY & AV-SYNC MEASUREMENT
STREAM START ADJUST
RANGE -500ms +500ms
0ms
2ms
AUDIO LATENCY
AUDIO IS PLAYED
AV-SYNC RESULT
AUDIO
(Beep)
VIDEO
(Flash)
TIME
VIDEO LATENCY
142ms
VIDEO IS DISPLAYED
INFO
MURIDEO

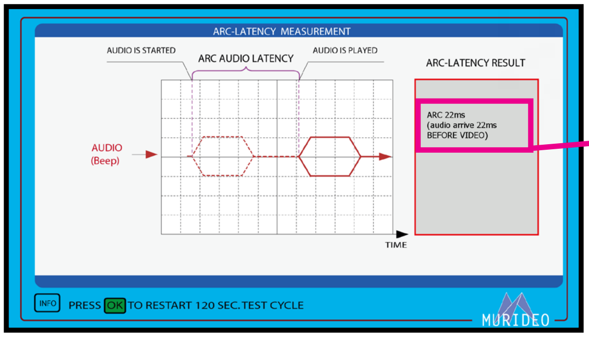
A 139ms V
(audio arrive 139ms
BEFORE VIDEO)

PRESS OK TO RESTART 120 SEC. TEST CYCLE


AV SYNC & LATENCY
☐ VIDEO SETTINGS
☐ DOLBY VISION SETTINGS
☐ AUDIO STREAM START ADJUST
☐ AV SENSORS FUNCTIONAL TEST
☐ ARM AV LATENCY
☐ ARM ARC LATENCY
☐ ARM eARC LATENCY
OPTIONS
☐ ADJUST AUDIO PHASE
STREAM START ADJUST
RANGE -500ms +500ms
AUDIO
(Beep)
VIDEO
(Flash)
INFO
MURIDEO

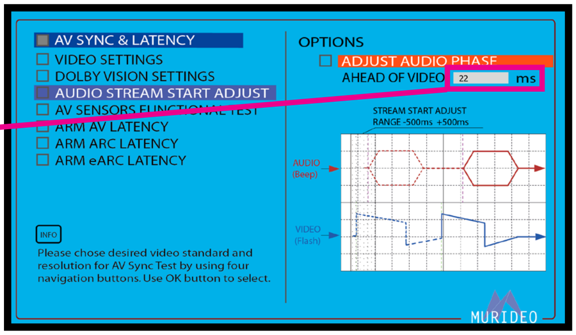
AHEAD OF VIDEO 139 ms

Please chose desired video standard and resolution for AV Sync Test by using four navigation buttons. Use OK button to select.


ARC-LATENCY MEASUREMENT
AUDIO IS STARTED
ARC AUDIO LATENCY
AUDIO IS PLAYED
ARC-LATENCY RESULT
AUDIO
(Beep)
TIME
INFO
MURIDEO

ARC 22ms
(audio arrive 22ms
BEFORE VIDEO)

PRESS OK TO RESTART 120 SEC. TEST CYCLE


AV SYNC & LATENCY
☐ VIDEO SETTINGS
☐ DOLBY VISION SETTINGS
☐ AUDIO STREAM START ADJUST
☐ AV SENSORS FUNCTIONAL TEST
☐ ARM AV LATENCY
☐ ARM ARC LATENCY
☐ ARM eARC LATENCY
OPTIONS
☐ ADJUST AUDIO PHASE
STREAM START ADJUST
RANGE -500ms +500ms
AUDIO
(Beep)
VIDEO
(Flash)
INFO
MURIDEO

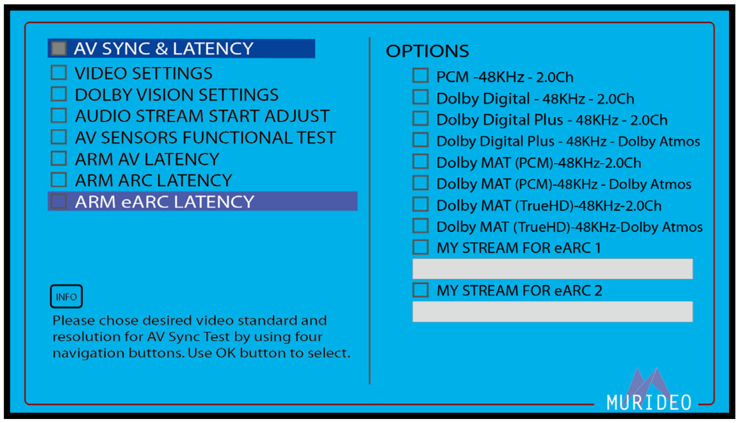
AHEAD OF VIDEO 22 ms

Please chose desired video standard and resolution for AV Sync Test by using four navigation buttons. Use OK button to select.

ARM eARC LATENCY:

Choose the desired audio format that you will use for the selected eARC (enhanced Audio Return Channel) latency test.

- PCM - 48KHz - 2.0 Ch
- Dolby Digital - 48KHz - 2.0 Ch
- Dolby Digital Plus - 48KHz - 2.0 Ch
- Dolby Digital Plus - 48KHz - Dolby Atmos
- Dolby MAT (PCM) - 48KHz - Dolby Atmos
- Dolby MAT (PCM) - 48KHz - 2.0 Ch
- Dolby MAT (TrueHD) - 48KHz 2.0 Ch
- Dolby MAT (TrueHD) - 48KHz - Dolby Atmos
- MY STREAMS FOR eARC 1
- MY STREAMS FOR eARC 2



☐ AV SYNC & LATENCY
☐ VIDEO SETTINGS
☐ DOLBY VISION SETTINGS
☐ AUDIO STREAM START ADJUST
☐ AV SENSORS FUNCTIONAL TEST
☐ ARM AV LATENCY
☐ ARM ARC LATENCY
☐ ARM eARC LATENCY

OPTIONS
☐ PCM -48KHz - 2.0Ch
☐ Dolby Digital - 48KHz - 2.0Ch
☐ Dolby Digital Plus - 48KHz - 2.0Ch
☐ Dolby Digital Plus - 48KHz - Dolby Atmos
☐ Dolby MAT (PCM)-48KHz-2.0Ch
☐ Dolby MAT (PCM)-48KHz - Dolby Atmos
☐ Dolby MAT (TrueHD)-48KHz-2.0Ch
☐ Dolby MAT (TrueHD)-48KHz-Dolby Atmos
☐ MY STREAM FOR eARC 1
☐ MY STREAM FOR eARC 2

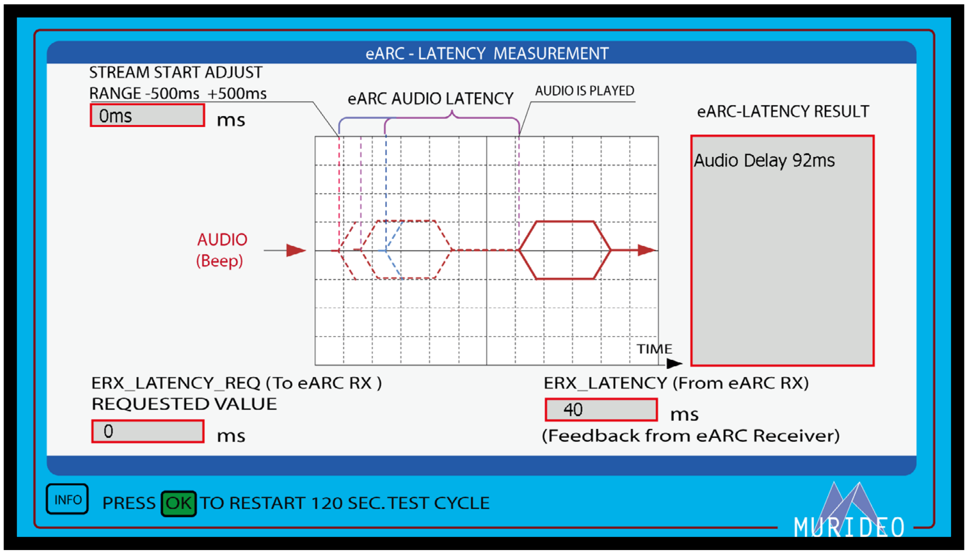
INFO

Please chose desired video standard and resolution for AV Sync Test by using four navigation buttons. Use OK button to select.

MURIDEO

With the Microphone connected to the SEVEN-G-8K and placed as close as possible to the speaker under test, press the green OK button to initiate the eARC Audio Latency Test (note this test runs for 120 seconds and will restart each time you press the OK button).

AV-Latency & AV Sync Measurement Menu



eARC - LATENCY MEASUREMENT

STREAM START ADJUST
RANGE -500ms +500ms
0ms ms

eARC AUDIO LATENCY

AUDIO IS PLAYED

AUDIO (Beep)

TIME

eARC-LATENCY RESULT

Audio Delay 92ms

ERX_LATENCY_REQ (To eARC RX)
REQUESTED VALUE
0 ms

ERX_LATENCY (From eARC RX)
40 ms
(Feedback from eARC Receiver)

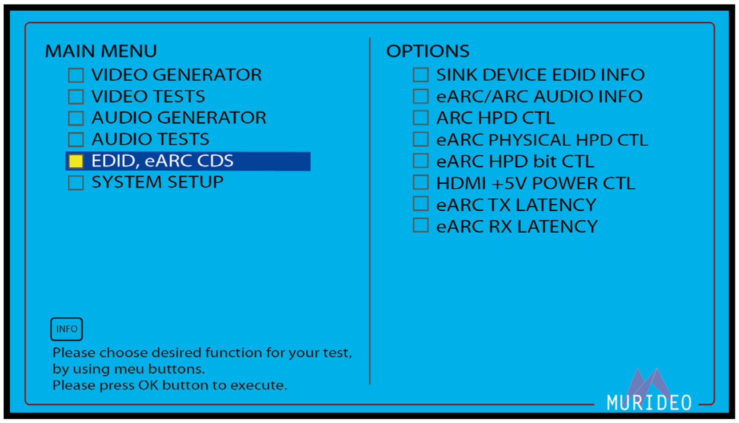
INFO PRESS OK TO RESTART 120 SEC. TEST CYCLE

MURIDEO

EDID, eARC CDS:

This menu contains HDMI protocol analysis/control functions. This menu contains the following options:

- SINK DEVICE EDID INFO
- eARC/ARC AUDIO INFO
- ARC HPD CTL
- eARC PHYSICAL HPD CTL
- eARC HPD bit CTL
- HDMI +5V POWER CTL
- eARC TX LATENCY
- eARC RX LATENCY


MAIN MENU
☐ VIDEO GENERATOR
☐ VIDEO TESTS
☐ AUDIO GENERATOR
☐ AUDIO TESTS
■ EDID, eARC CDS
☐ SYSTEM SETUP
OPTIONS
☐ SINK DEVICE EDID INFO
☐ eARC/ARC AUDIO INFO
☐ ARC HPD CTL
☐ eARC PHYSICAL HPD CTL
☐ eARC HPD bit CTL
☐ HDMI +5V POWER CTL
☐ eARC TX LATENCY
☐ eARC RX LATENCY
INFO
MURIDEO

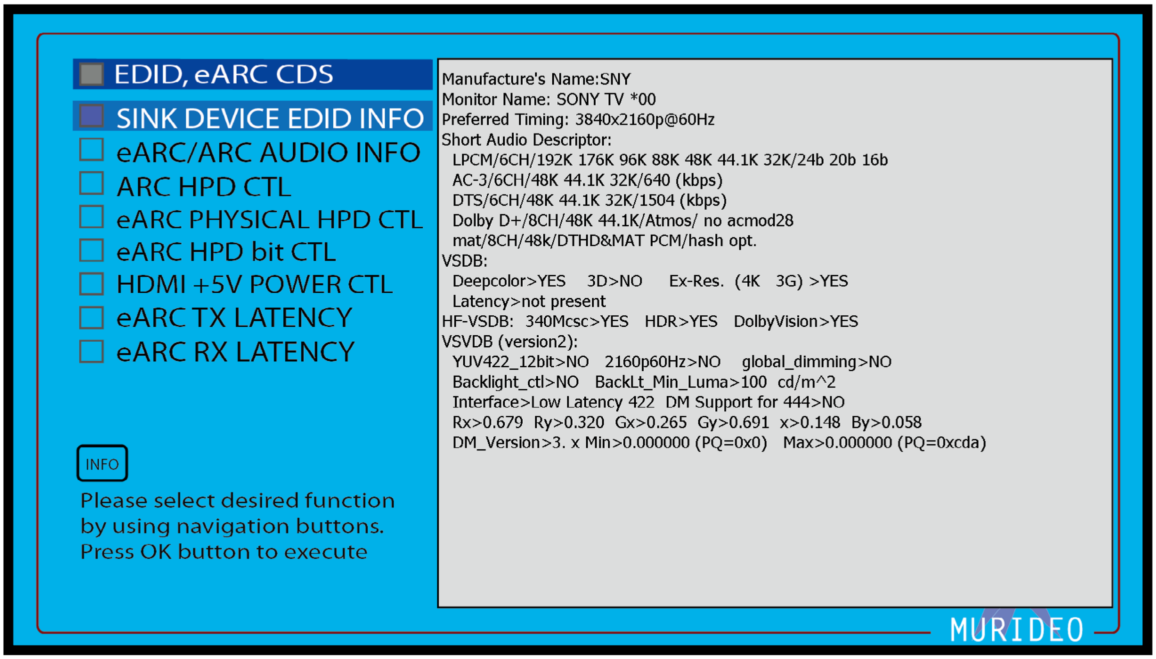
Please choose desired function for your test,
by using meu buttons.
Please press OK button to execute.

NOTE: In order to test ARC/eARC, you must do the following:

- Enable ARC/eARC (located under the SYSTEM SETUP menu pg. 49) inside the SEVEN-G-8K
- Enable ARC/eARC inside the device you are testing (display, AVR, etc.)

SINK DEVICE EDID INFO:

This menu displays the SINK device's EDID information in Human Readable Format. To see the EDID in HEX form please use the PC Control Software (available for download at www.murideo.com).


EDID, eARC CDS
■ SINK DEVICE EDID INFO
☐ eARC/ARC AUDIO INFO
☐ ARC HPD CTL
☐ eARC PHYSICAL HPD CTL
☐ eARC HPD bit CTL
☐ HDMI +5V POWER CTL
☐ eARC TX LATENCY
☐ eARC RX LATENCY
INFO
MURIDEO

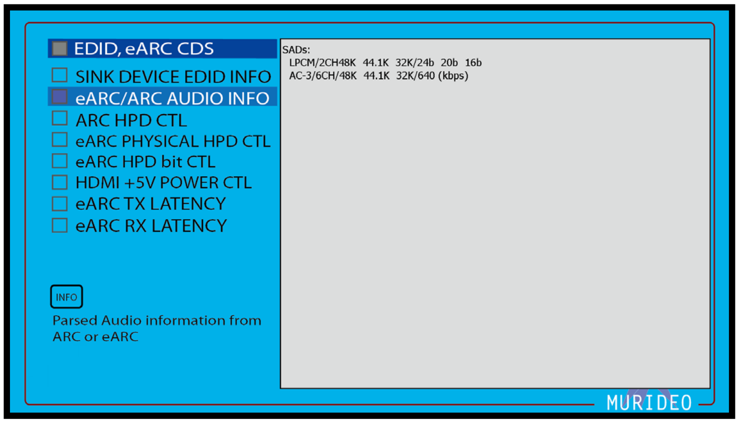
```
Manufacture's Name:SNY
Monitor Name: SONY TV *00
Preferred Timing: 3840x2160p@60Hz
Short Audio Descriptor:
  LPCM/6CH/192K 176K 96K 88K 48K 44.1K 32K/24b 20b 16b
  AC-3/6CH/48K 44.1K 32K/640 (kbps)
  DTS/6CH/48K 44.1K 32K/1504 (kbps)
  Dolby D+/8CH/48K 44.1K/Atmos/ no acmod28
  mat/8CH/48k/DTHD&MAT PCM/hash opt.
VSDB:
  Deepcolor>YES    3D>NO     Ex-Res.  (4K   3G) >YES
  Latency>not present
HF-VSDB:  340Mcsc>YES   HDR>YES   DolbyVision>YES
VSVDB (version2):
  YUV422_12bit>NO   2160p60Hz>NO    global_dimming>NO
  Backlight_ctl>NO   BackLt_Min_Luma>100  cd/m^2
  Interface>Low Latency 422  DM Support for 444>NO
  Rx>0.679  Ry>0.320  Gx>0.265  Gy>0.691  x>0.148  By>0.058
  DM_Version>3. x Min>0.000000 (PQ=0x0)   Max>0.000000 (PQ=0xcda)
```

Please select desired function
by using navigation buttons.
Press OK button to execute

eARC/ARC AUDIO INFO:

Displays the CDS (Capabilities Data Structure). This infomation also relates to eARC/ARC and contains the following:

- SADs - (Short Audio Descriptor)
- Speaker Allocation
- Audio Stream layout Block


EDID, eARC CDS
☐ SINK DEVICE EDID INFO
☐ eARC/ARC AUDIO INFO
☐ ARC HPD CTL
☐ eARC PHYSICAL HPD CTL
☐ eARC HPD bit CTL
☐ HDMI +5V POWER CTL
☐ eARC TX LATENCY
☐ eARC RX LATENCY
INFO
MURIDEO

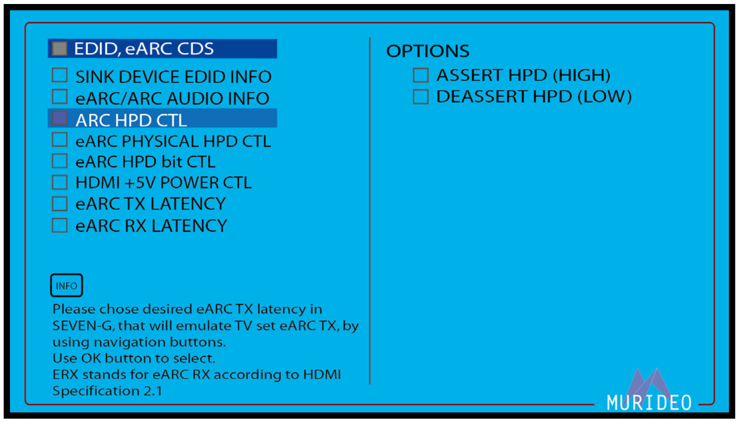
Parsed Audio information from ARC or eARC

```
SADs:
  LPCM/2CH48K  44.1K  32K/24b  20b  16b
  AC-3/6CH/48K  44.1K  32K/640 (kbps)
```

ARC HPD CTL:

ARC HPD CTL (Hot Plug Detect Control). This will allow you to turn ON or OFF the +5V HDMI power output. This menu contains the following:

- ASSERT HPD = ON
- DEASSERT HPD = OFF


EDID, eARC CDS
☐ SINK DEVICE EDID INFO
☐ eARC/ARC AUDIO INFO
☐ ARC HPD CTL
☐ eARC PHYSICAL HPD CTL
☐ eARC HPD bit CTL
☐ HDMI +5V POWER CTL
☐ eARC TX LATENCY
☐ eARC RX LATENCY
INFO
OPTIONS
☐ ASSERT HPD (HIGH)
☐ DEASSERT HPD (LOW)
MURIDEO

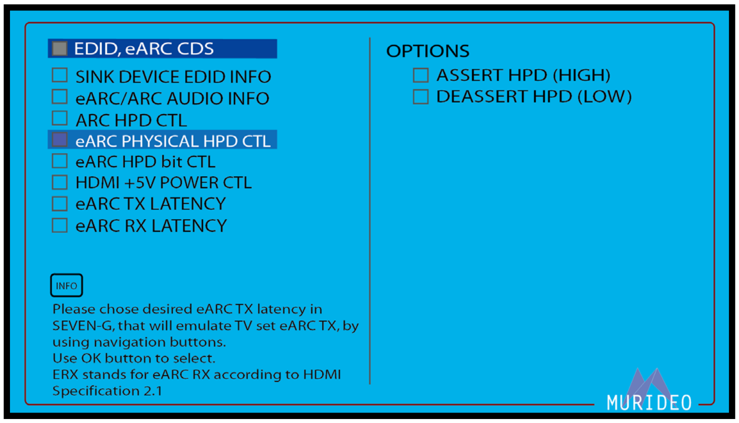
Please chose desired eARC TX latency in SEVEN-G, that will emulate TV set eARC TX, by using navigation buttons.
Use OK button to select.
ERX stands for eARC RX according to HDMI Specification 2.1

NOTE: Use this to trigger an HPE (Hot Plug Event) without physically disconnecting/reconnecting the HDMI cable.

eARC PHYSICAL HPD CTL:

eARC Physical HPD CTL (Hot Plug Control).
This menu contains the following:

- ASSERT HPD = ON
- DEASSERT HPD = OFF


EDID, eARC CDS
☐ SINK DEVICE EDID INFO
☐ eARC/ARC AUDIO INFO
☐ ARC HPD CTL
☐ eARC PHYSICAL HPD CTL
☐ eARC HPD bit CTL
☐ HDMI +5V POWER CTL
☐ eARC TX LATENCY
☐ eARC RX LATENCY
INFO
OPTIONS
☐ ASSERT HPD (HIGH)
☐ DEASSERT HPD (LOW)
MURIDEO

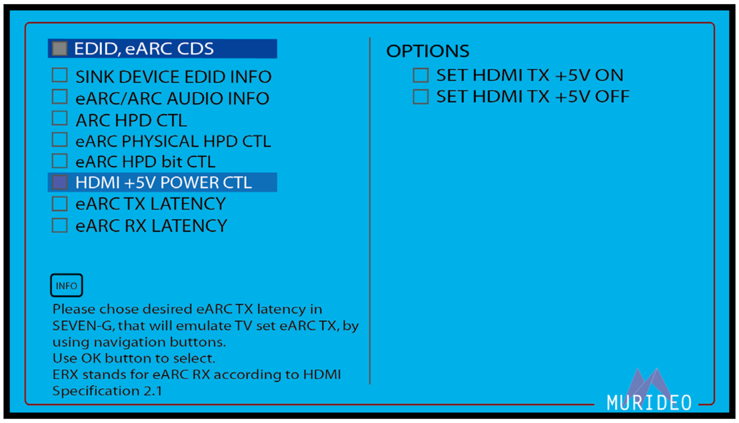
Please chose desired eARC TX latency in SEVEN-G, that will emulate TV set eARC TX, by using navigation buttons.
Use OK button to select.
ERX stands for eARC RX according to HDMI Specification 2.1

NOTE: Use this to trigger an HPE (Hot Plug Event) on the ARC/eARC (HDMI INPUT) without physically disconnecting/reconnecting the HDMI cable.

HDMI +5V POWER CTL:

Activate or disable the +5V HDMI power output.
This contains the following options:

- SET HDMI TX +5V ON
- SET HDMI TX +5V OFF

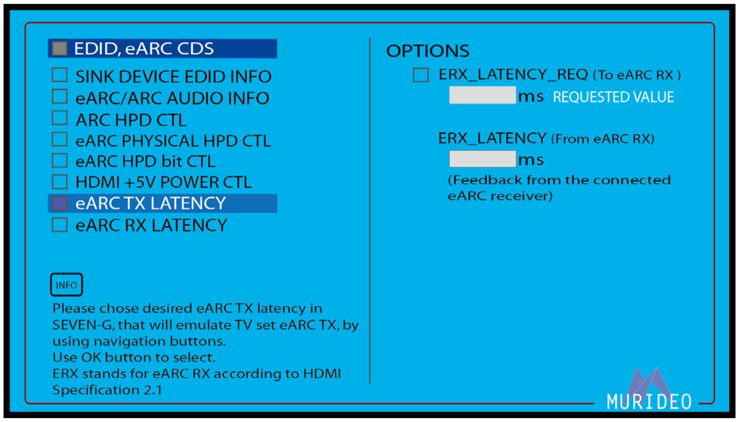

EDID, eARC CDS
☐ SINK DEVICE EDID INFO
☐ eARC/ARC AUDIO INFO
☐ ARC HPD CTL
☐ eARC PHYSICAL HPD CTL
☐ eARC HPD bit CTL
☐ HDMI +5V POWER CTL
☐ eARC TX LATENCY
☐ eARC RX LATENCY
INFO
OPTIONS
☐ SET HDMI TX +5V ON
☐ SET HDMI TX +5V OFF
MURIDEO

Please chose desired eARC TX latency in SEVEN-G, that will emulate TV set eARC TX, by using navigation buttons.
Use OK button to select.
ERX stands for eARC RX according to HDMI Specification 2.1

NOTE: Use this to trigger an HPE (Hot Plug Event) without physically disconnecting/reconnecting the HDMI cable.

eARC TX LATENCY:

Use this test to read the latency value (in milliseconds) for the eARC RX. This is performed using the HDMI RX (INPUT) on the SEVEN-G-8K.

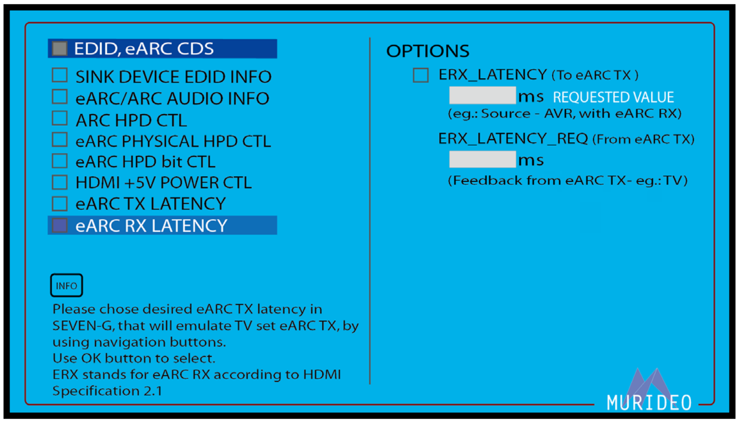

EDID, eARC CDS
☐ SINK DEVICE EDID INFO
☐ eARC/ARC AUDIO INFO
☐ ARC HPD CTL
☐ eARC PHYSICAL HPD CTL
☐ eARC HPD bit CTL
☐ HDMI +5V POWER CTL
☐ eARC TX LATENCY
☐ eARC RX LATENCY
INFO
OPTIONS
☐ ERX_LATENCY_REQ (To eARC RX)
ms REQUESTED VALUE
ERX_LATENCY (From eARC RX)
ms
MURIDEO

(Feedback from the connected eARC receiver)

Please chose desired eARC TX latency in SEVEN-G, that will emulate TV set eARC TX, by using navigation buttons.
Use OK button to select.
ERX stands for eARC RX according to HDMI Specification 2.1

eARC RX LATENCY:

Use this test to read the latency value (in milliseconds) for the eARC TX. This is performed using the HDMI TX (OUTPUT) on the SEVEN-G-8k.


EDID, eARC CDS
☐ SINK DEVICE EDID INFO
☐ eARC/ARC AUDIO INFO
☐ ARC HPD CTL
☐ eARC PHYSICAL HPD CTL
☐ eARC HPD bit CTL
☐ HDMI +5V POWER CTL
☐ eARC TX LATENCY
☐ eARC RX LATENCY
INFO
OPTIONS
☐ ERX_LATENCY (To eARC TX)
ms REQUESTED VALUE
ERX_LATENCY_REQ (From eARC TX)
ms
MURIDEO

(eg.: Source - AVR, with eARC RX)

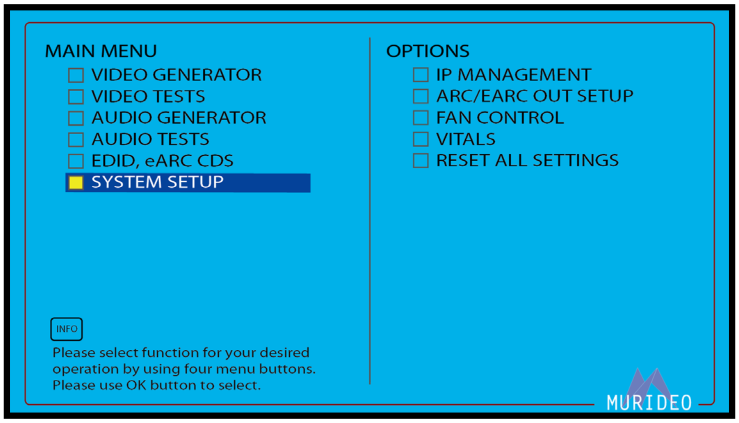
(Feedback from eARC TX- eg.: TV)

Please chose desired eARC TX latency in SEVEN-G, that will emulate TV set eARC TX, by using navigation buttons.
Use OK button to select.
ERX stands for eARC RX according to HDMI Specification 2.1

SYSTEM SETUP:

This menu contains general device setup and managment for the SEVEN-G-8k. This contains the following options:

- IP MANAGEMENT
- ARC/eARC OUT SETUP
- FAN CONTORL
- VITALS
- RESET ALL SETTINGS

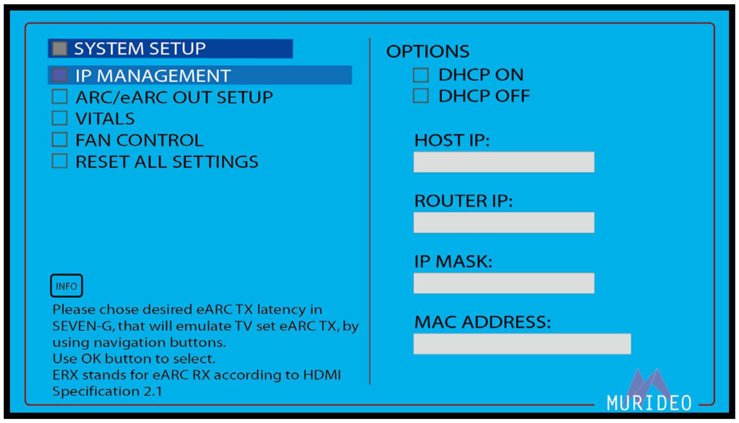

MAIN MENU
☐ VIDEO GENERATOR
☐ VIDEO TESTS
☐ AUDIO GENERATOR
☐ AUDIO TESTS
☐ EDID, eARC CDS
☐ SYSTEM SETUP
OPTIONS
☐ IP MANAGEMENT
☐ ARC/EARC OUT SETUP
☐ FAN CONTROL
☐ VITALS
☐ RESET ALL SETTINGS
INFO
MURIDEO

Please select function for your desired operation by using four menu buttons. Please use OK button to select.

IP MANAGEMENT:

This menu contains network information for the SEVEN-G-8k. Here you can manually set the device's IP address or you can Enable DHCP to allow your network controller to assign the settings. This menu contains the following options:

- DHCP ON / DCHP OFF
- HOST IP
- ROUTER IP
- IP MASK
- MAC ADDRESS

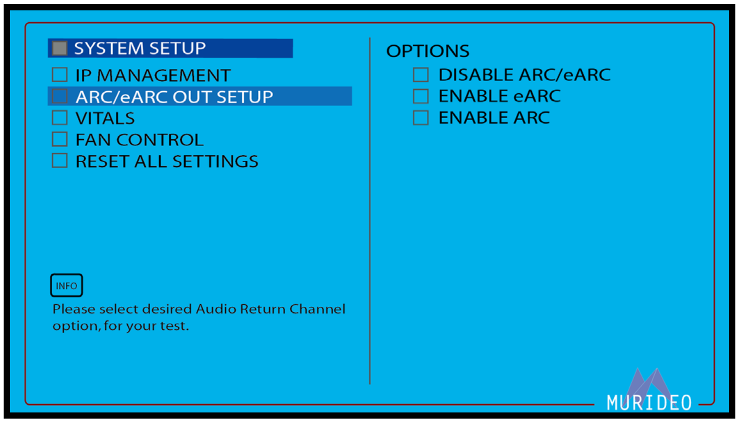

SYSTEM SETUP
IP MANAGEMENT
☐ ARC/eARC OUT SETUP
☐ VITALS
☐ FAN CONTROL
☐ RESET ALL SETTINGS
OPTIONS
☐ DHCP ON
☐ DHCP OFF
HOST IP:
ROUTER IP:
IP MASK:
MAC ADDRESS:
INFO
MURIDEO

Please chose desired eARC TX latency in SEVEN-G, that will emulate TV set eARC TX, by using navigation buttons.
Use OK button to select.
ERX stands for eARC RX according to HDMI Specification 2.1

ARC/eARC OUT SETUP:

This menu contains the following options:

- DISABLE ARC/eARC
- ENABLE eARC
- ENABLE ARC

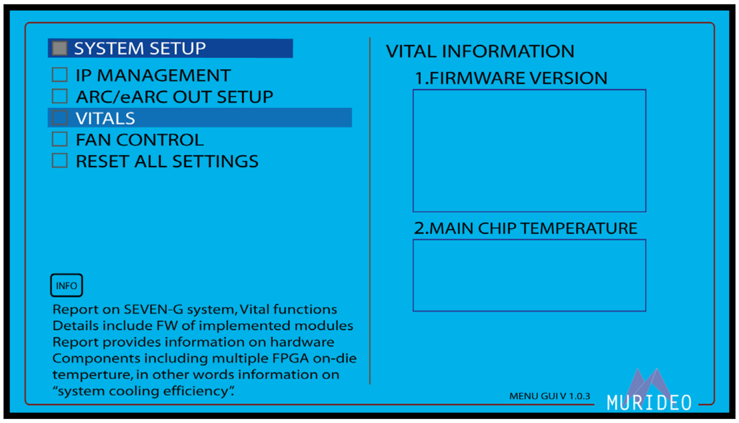

SYSTEM SETUP
☐ IP MANAGEMENT
ARC/eARC OUT SETUP
☐ VITALS
☐ FAN CONTROL
☐ RESET ALL SETTINGS
OPTIONS
☐ DISABLE ARC/eARC
☐ ENABLE eARC
☐ ENABLE ARC
INFO
MURIDEO

Please select desired Audio Return Channel option, for your test.

VITALS:

This menu contains vital information for the SEVEN-G-8K. This includes:

- Firmware Version
- Main Chip Temperature


SYSTEM SETUP
☐ IP MANAGEMENT
☐ ARC/eARC OUT SETUP
☐ VITALS
☐ FAN CONTROL
☐ RESET ALL SETTINGS
INFO
VITAL INFORMATION
1.FIRMWARE VERSION
2.MAIN CHIP TEMPERATURE
MENU GUI V 1.0.3
MURIDEO

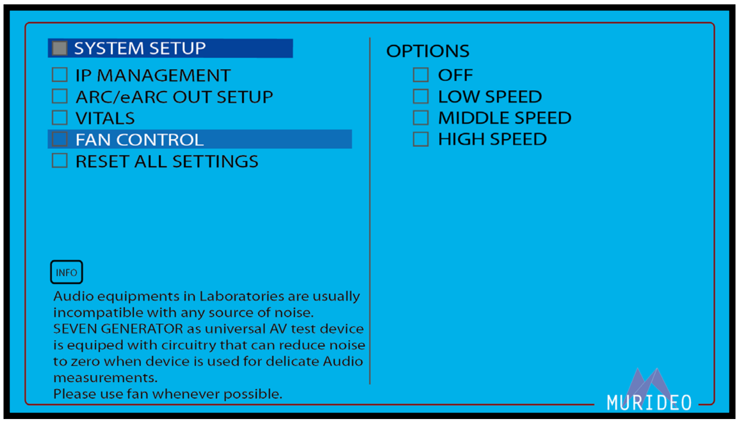
Report on SEVEN-G system, Vital functions
Details include FW of implemented modules
Report provides information on hardware
Components including multiple FPGA on-die
temperture, in other words information on
"system cooling efficiency".

NOTE: For the latest Firmware and instructions on how to load, visit www.murideo.com

FAN CONTROL:

Use this menu to adjust the fan speed. There are 4 settings to choose from:

- OFF (see note below)
- LOW SPEED
- MIDDLE SPEED (Default)
- HIGH SPEED


SYSTEM SETUP
☐ IP MANAGEMENT
☐ ARC/eARC OUT SETUP
☐ VITALS
☐ FAN CONTROL
☐ RESET ALL SETTINGS
INFO
OPTIONS
☐ OFF
☐ LOW SPEED
☐ MIDDLE SPEED
☐ HIGH SPEED
MURIDEO

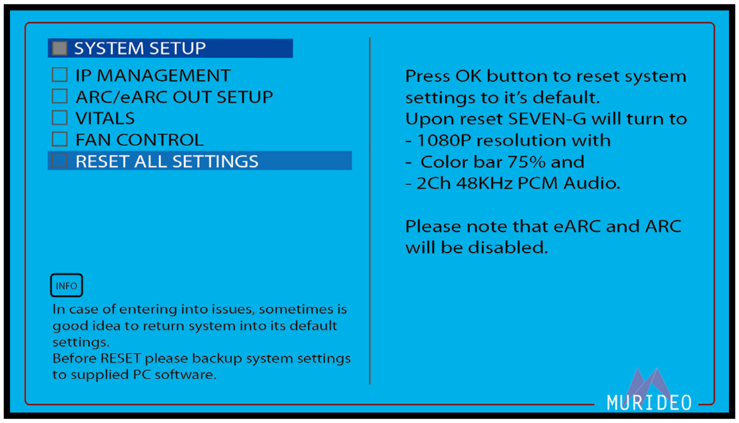
Audio equipments in Laboratories are usually
incompatible with any source of noise.
SEVEN GENERATOR as universal AV test device
is equiped with circuitry that can reduce noise
to zero when device is used for delicate Audio
measurements.
Please use fan whenever possible.

NOTE: You may consider turning the fan OFF in situations where audio measurements are critical. It is not recommended to leave the fan OFF for an extended period of time while using the SEVEN-G-8K.

RESET ALL SETTINGS:

Use this menu to reset the SEVEN-G-8K to the factory default settings. Upon reseting, the SEVEN-G-8K will set

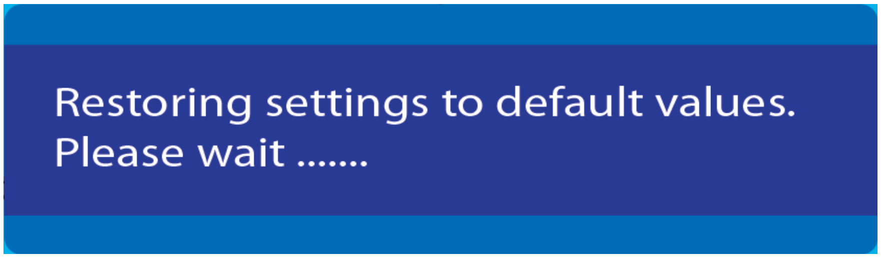
- Resolution - 1920 x 1080 P
- Pattern - Color Bar 75%
- Audio - PCM 48KHz - 2.0 Ch


SYSTEM SETUP
☐ IP MANAGEMENT
☐ ARC/eARC OUT SETUP
☐ VITALS
☐ FAN CONTROL
☐ RESET ALL SETTINGS
INFO
MURIDEO

Press OK button to reset system settings to it's default.
Upon reset SEVEN-G will turn to
- 1080P resolution with
- Color bar 75% and
- 2Ch 48KHz PCM Audio.

Please note that eARC and ARC will be disabled.

In case of entering into issues, sometimes is good idea to return system into its default settings.
Before RESET please backup system settings to supplied PC software.



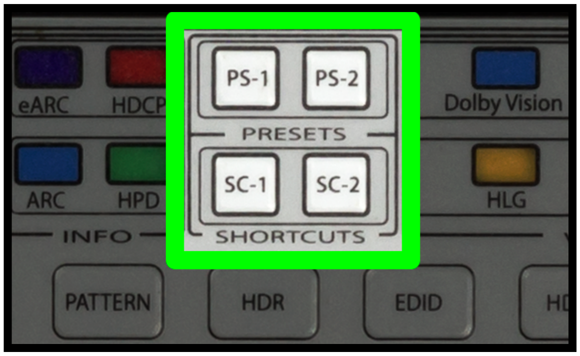
Restoring settings to default values.
Please wait ....

NOTE: Resetting to factory defaults will NOT delete/remove your custom uploaded patterns/videos clips/audio streams.

NOTE: Resetting to factory defaults WILL reset the PRESET and SHORTCUT buttons back to their default state.

PS-1/PS-2 Defaults
100% COLOR BARS Pattern
1920x1080@60Hz RGB Full (0-255)
PCM AUDIO <Rate:48K Size:16Bit FREQ. :1KHz AMP. :-0dB Channel: 2CH>

SC-1/SC-2 Defaults back to the HOME Menu


eARC
HDCP
PS-1
PS-2
PRESETS
Dolby Vision
ARC
HPD
SC-1
SC-2
HLG
INFO
SHORTCUTS
PATTERN
HDR
EDID

Updating Firmware

Field firmware updates are available via USB port. Firmware updates, when available will be posted on the Murideo.com we 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, including interference that my cause undesired operation.
2. This device must accept any interference received, including interference that my 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.
- Connecd 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 enviornment, this product may cuase 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

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 APARTICULAR PURPOSE AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON MURIDEO'S PART, AND ITNEITHER ASSUMES NOR AUTHORIZES ANY OTHER PARTY TO ASSUME FOR MURIDEO ANY OTHERLIABILITIES. THE FOREGOING CONSTITUTES THE BUYER'S SOLE AND EXCLUSIVE REMEDY FOR THEFURNISHING OF DEFECTIVE OR NONCONFORMING PRODUCTS AND MURIDEO WILL NOT IN ANY EVENT BELIABLE FOR COST OF SUBSTITUTE OR REPLACEMENT, COST OF FACILITIES OR SERVICE, DOWNTIMECOSTS, LOSS OF PROFITS, REVENUES OR GOODWILL, RELIANCE DAMAGES, LOSS OF DATA, LOSS OFUSE 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 BEENDETERMINED TO BE DEFECTIVE OR NONCONFORMING. THE RIGHTS AND OBLIGATIONS OF THE PARTIES UNDER THIS AGREEMENT SHALL NOT BE GOVERENED BY THE PROVISIONSOF THE 1980 U.S. CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS OR THE UNITED NATIONSCONVENTION 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 longa 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

+1-605-330-8491 for worldwide technical support

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