

HDMI to Gen-Lock SDI/HDMI Converter

OPERATION GUIDE





WARNING



This symbol indicates that dangerous voltage consisting a risk of electric shock is present within this unit.

PRECAUTION



This exclamation point symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

- 1. Be sure to use only the standard adapter that is specified in the specification sheet. Using any other adapter could cause fire, electrical shock, or damage to the product.
- 2. Incorrectly connecting the power supply or replacing battery may cause explosion, cause excessive heat or fire
- 3. Do not connect multiple connectors to a single adapter. Exceeding the capacity may cause excessive heat or fire.
- 4. Securely plug the power cord into the power receptacle. Insecure connection may cause fire.
- 5. Do not drop the converter to avoid the damage or personal injury.

Warning continues

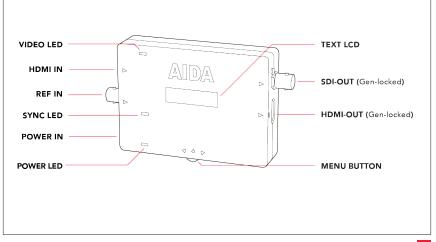
- 6. Do not place conductive objects (e.g. screw drivers, coins, metal items, etc.) or containers filled with water on top of the converter. Doing so may cause personal injury due to fire, electric shock, or falling objects.
- 7. Do not install the unit in humid, dusty, or sooty locations. Doing so may cause fire or electric shock.
- If any unusual smells or smoke come from the unit, stop using the product. Immediately disconnect the power source and contact the service center. Continued use in such a condition may cause fire or electric shock.
- 9. If this product fails to operate normally, contact the nearest service center. Never disassemble or modify this product in any way.
- 10. When cleaning, do not spray water directly onto parts of the product. Doing so may cause fire or electric shock.

PRECAUTION

Please read this Operation Guide before installing and using the camera & retain this copy for your reference.

- Always follow the instructions in the operation guide when applying power. Fire and equipment damage can occur if power is applied incorrectly. For the correct power supply, refer to the specifications page.
- Do not use converter if fumes, smoke or a strange odor is emitted from the camera, or if it seems not functional correctly. Disconnect the power source immediately and consult with your supplier.
- Do not use the converter in extreme environments where high temperatures or high humidity exists. Use the camera under conditions where
 temperatures are between 32°F ~ 104°F, and humidity is below 90%.
- If installed close to a TV, radio transmitter, magnet, electric motor transformer or audio speakers the magnetic field generated may interfere with
 or distort the image.
- 5. To prevent damage, do not drop the converter or subject it to strong shock or vibration.

GCON-HDMI



FEATURES

- HDMI up to 1080p60 full HD Resolution Input.
- Simultaneous SDI and HDMI Loop Output.
- · Highly compatible with Tri Level reference input SMPTE 292M & 424M Compliant and multi-video format including 59.94Hz.
- SMPTE 352M Ancillary Data supported.
- Embedded audio pass through via SDI & HDMI.
- Adjustable V-sync & H-sync phases.
- Divisional picture comparison.
- Built in Pattern Generator.
- Built in LCD menu screen.
- · Built in menu control button.
- · Versatile, compact, and rugged design.

MENU OPERATION



1. Entering the main menu

Press Enter button three times to enter the main menu.

2. Change the menu items

Use Right or Left menu to toggle through the menu.

3. Select or enter the sub menu

Use Enter button.

OSD MENU

GEN-LOCK CONT.

GEN ON/OFF GEN-RUN: [OFF], GEN-RUN: [ON], CANCEL(BACK)

- H_SYNC ADJUST H_SYNC: 0000, CANCEL(BACK)
- V_SYNC ADJUST

V_SYNC: 0000, CANCEL(BACK)

RETURN

PATTERN GEN.

PTN ON/OFF

PATTERN: [OFF], PATTERN: [ON], CANCEL(BACK)

PTN TYPE

PTN WHITE, PTN CROSS, PTN WHITE PTN HATCH PTN COLOR BAR, PTN WINDOW, PTN H RAMP PTN WH RAMP, PTN WV RAMP, PTN DIAGONAL PTN RED, PTN GREEN, PTN BLUE

RETURN

MISC CONT.

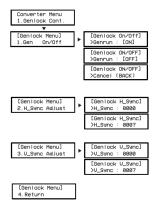
AUDIO CONT.
 AUDIO ON/ OFF: AUDIO: [OFF], AUDIO: [ON],
 CANCEL(BACK) AUDIO BITS : 24 BITS, 20 BITS,
 16 BITS, CANCEL(BACK)

RETURN

 PAYLOAD CONT. : 24 BITS, 20 BITS, 16 BITS, CANCEL(BACK)
 PAYLOAD ON/ OFF: PAYLOAD: [OFF], PAYLOAD: [ON], CANCEL(BACK)
 RETURN

DISPLAY CONT.

- LCD CONT.
 LCD BL ON/OFF: LCD [OFF], LCD: [ON], CANCEL(BACK)
 DISP TYPE: DYNAMIC], STATIC, CANCEL(BACK)
 RETURN
- HD/3G CONT.
 2DIV COMPARE: 2DIV [OFF], 2DIV: [ON]
- RETURN
- RESET: REST RUN, RETURN
- EXIT



GEN ON/OFF

External reference input can be turned ON or OFF from this menu. By using Left or Right button,

Select GEN-RUN[ON] to enable external reference input. Select GEN-RUN[OFF] to disable external reference input. Select CANCEL(BACK) to go back to the previous menu.

* SDI input signal and reference signal needs to be matched.

H_SYNC ADJUST

H_Sync offset can be adjusted from this menu. By using Left or Right button, Select the right offset number on H_SYNC.0000 Press SELECT button to apply the changes and go back to the previous menu.

V_SYNC ADJUST

V_Sync offset can be adjusted from this menu.

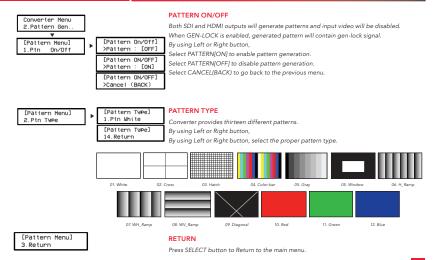
By using Left or Right button,

Select the right offset number on V_SYNC:0000

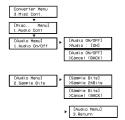
Press SELECT button to apply the changes and go back to the previous menu.

RETURN

PATTERN GEN.



MISC. CONT AUDIO



AUDIO CONT

Audio can be turned ON or OFF, and AUDIO Sample Rate can be adjusted.

AUDIO ON/OFF

By using Left or Right button,

Select AUDIO[ON] to enable AUDIO to be passed through to SDI and HDMI outputs. Select AUDIO[OFF] to disable AUDIO.

Select CANCEL(BACK) to go back to the previous menu.

· SAMPLE BITS : 16 BITS, 20 BITS, 24 BITS

RETURN

Press SELECT button to Return to the main menu.

MISC. CONT PAYLOAD



| 1 | [Payloado | Menu] |
|---|-----------|-------|
| | 3.Return | |

PAYLOAD CONT

Payload ID can be turned ON or OFF can be adjusted.

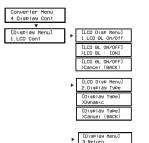
PAYLOAD ON/OFF

By using Left or Right button,

- · Select PAYLOAD[ON] to enable Payload ID.
- · Select PAYLOAD[OFF] to disable Payload ID.
- · Select CANCEL(BACK) to go back to the previous menu.

RETURN

DISPLAY CONT LCD



LCD CONT

This menu can control built in LCD display.

LCD BL ON/OFF

LCD display back-light can be turned ON or OFF from this menu.

By using Left or Right button,

Select LCD[ON] to enable LCD back-light.

Select LCD[OFF] to disable LCD back-light.

Select CANCEL(BACK) to go back to the previous menu.

• DISPLAY TYPE : DYNAMIC. STATIC

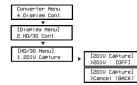
LCD display type can be adjusted from this menu.

Select DYNAMIC to display the current input status of SDI and external reference.

Select STATIC to display the current external reference input and video output status.

RETURN

DISPLAY-CONT. 2DIV



HD/3G CONT

2 division comparison provides still image and live image for image quality comparison

2DIV CAPTURE

Converter will capture the left half of the live image.

The other half of the screen is the live video.



Live Image 2DIV OFF

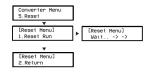


Live Image Captured mage 2DIV ON

RETURN

Press SELECT button to Return to the main menu.

RESET



RESET

Converter setting can be defaulted to the factory setting from this menu.

RESET RUN

Select this menu to load factory default setting.

RETURN

VIDEO

 Video Input
 HDM 1.3

 Resolution/Ratu
 1080 60p/59.94p/50p/30p/29.97p/ 25p

 1080 60v/59.94p/50p/30p/25p
 1080 60v/59.94p/50p/30p/25p

 Color Space
 4:2:2 (YCbCr) 10bit

 Video Output
 Gen-locked HDM 21.3 a

FUNCTION

 Gen-lock Control
 ON/OFF

 H Sync & V Sync Adjustment

 Audio Control
 Audio Bits (16, 20, 24 Bits)

 Payload ID
 ON/OFF

Pattern Generate Thirteen Patterns

AUDIO INPUT

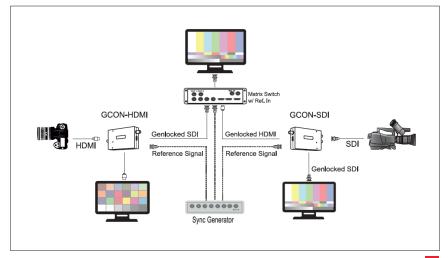
Power

Audio Input 8 Channels Embedded HDMI Audio STANDARD SMPTE SMPTE 292M, SMPTE 424M SYNCHRONIZATION Gen-lock External Tri-Level Input PHYSICAL Control OSD Button & Text I CD Operation Temp 32° F - 104° F Dimension 130mm x 75m x 24mm / 5.11" x 2.95" x 0.94" Weight 173g / 0.38lbs

6W at 12VDC (+9 - +15VDC)

*Specification are subject to change without notice.

CONNECTION



QUESTIONS

Visit us:

www.aidaimaging.com/support

E-mail us:

support@aidaimaging.com

Give us a Call:

Toll Free: 844.631.8367 | Tel: 909.333.7421 Operating Hours: Mon-Fri | 8:00am - 5:00pm PST





Disposal of Old Appliances

- 1. When this crossed-out wheel bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
- 2. All electrical and electronic products should be disposed of separately form the municipal waste stream in accordance to laws designated by the government or the local authorities.
- 3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
- 4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.



This equipment has been tested and found to comply with the limits for a Case A digital device, pursuant to part 15 of the FCG and the Case. These limits are designed provide reasonable protection against hummli interference to provide reasonable protection against hummli interference to provide reasonable protection against hummli interference to radio communications. Operation of this equipment in a residential area is likely to cause humfli interference in which case the user will be required to correct the interface.