



SDI to Gen-Lock
SDI/HDMI Converter

GCON-SDI

OPERATION GUIDE

**CAUTION:**

RISK OF ELECTRIC SHOCK.
DO NOT OPEN.

**CAUTION:**

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK)
NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**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.

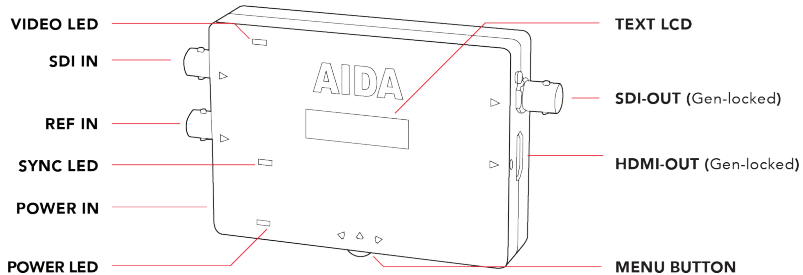
Warning continues

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.
8. 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.

1. 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.
2. 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.
3. 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%.
4. 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.



FEATURES

- 3G-SDI up to 1080p60 full HD Resolution Input.
- Simultaneous HDMI and SDI 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



L- Left | **U-** Select | **R-** Right

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.

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.

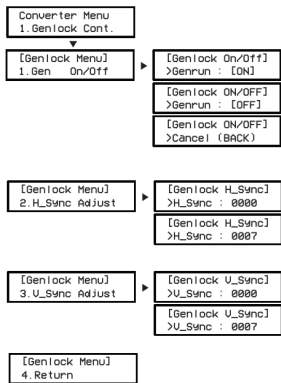
- PTN ON/OFF
PATTERN: [OFF], PATTERN: [ON], CANCEL(BACK)
- PTN TYPE
PTN WHITE, PTN CROSS, PTN WHITE PTN HATCH
PTN COLOR BAR, PTN WINDOW, PTN H RAMP
PTN WH RAMP, PTN WV RAMP, PTN DIAGONAL
PTN RED, PTN GREEN, PTN BLUE
- RETURN

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

Press SELECT button to Return to the main menu.

Converter Menu
2. Pattern Gen. .

[Pattern Menu]
1. Ptn On/Off

[Pattern On/Off]
>Pattern : [OFF]

[Pattern ON/OFF]
>Pattern : [ON]

[Pattern ON/OFF]
>Cancel (BACK)

PATTERN ON/OFF

Both SDI and HDMI outputs will generate patterns and input video will be disabled.

When GEN-LOCK is enabled, generated pattern will contain gen-lock signal.

By using Left or Right button,

Select PATTERN[ON] to enable pattern generation.

Select PATTERN[OFF] to disable pattern generation.

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

[Pattern Menu]
2. Ptn Type

[Pattern Type]
1. Ptn White

[Pattern Type]
14. Return

PATTERN TYPE

Converter provides thirteen different patterns.

By using Left or Right button,

By using Left or Right button, select the proper pattern type.



01. White



02. Cross



03. Hatch



04. Color bar



05. Gray



05. Window



06. H_Ramp



07. WH_Ramp



08. WV_Ramp



09. Diagonal



10. Red



11. Green

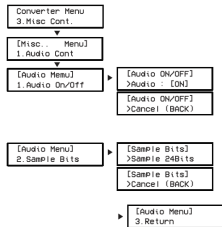


12. Blue

[Pattern Menu]
3. Return

RETURN

Press SELECT button to Return to the main menu.

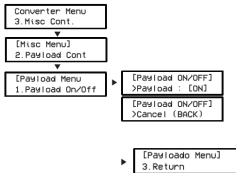
**AUDIO CONT**

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.

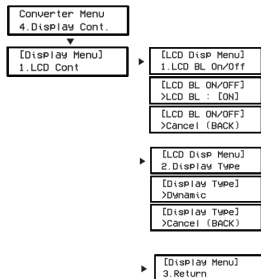
**PAYLOAD CONT**

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

Press SELECT button to Return to the main menu.



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

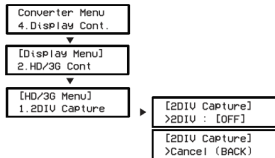
LCD display type can be adjusted from this menu.

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

Press SELECT button to Return to the main menu.



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

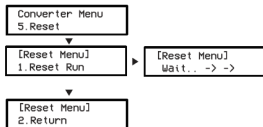


Live Image Captured mage
2DIV ON

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
Press SELECT button to Return to the main menu.

VIDEO

Video Input	3G-SDI / HD-SDI
Resolution/Rate	1080 60p/59.94p/50p/30p/29.97p/ 25p 1080 60i/59.94i/50i
	720 60p/59.94p/50p/30p/25p
Color Space	4:2:2 (YCbCr) 10bit
Video Output	Gen-locked HD-SDI/3G-SDI Gen-locked HDMI 1.3a

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

Audio Input	16 Channels Embedded SDI Audio
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STANDARD

SMPTE	SMPTE 292M, SMPTE 424M
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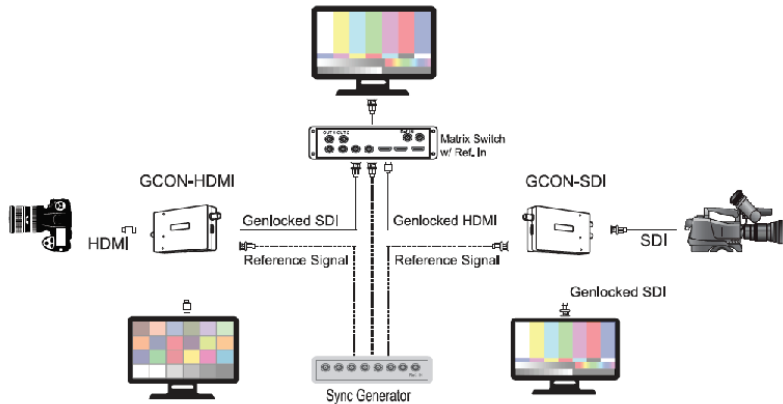
SYNCHRONIZATION

Gen-lock	External Tri-Level Input
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PHYSICAL

Control	OSD Button & Text LCD
Operation Temp	32° F - 104° F
Dimension	130mm x 75mm x 24mm / 5.11" x 2.95" x 0.94"
Weight	173g / 0.38lbs
Power	6W at 12VDC (+9 - +15VDC)

*Specification are subject to change without notice.



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Give us a Call:

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Operating Hours: Mon-Fri | 8:00am – 5:00pm PST

AIDA

IMAGING



기자재 명칭(모델명) : Signal Converter

모델번호 : R-Raid-TR0EN-6P

인증 받은 자의 상호 : (주)에이치올리스텍

제조년월 :

제조자/제조국가 : (주)에이치올리스텍 / 한국



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 from 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 Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

