AIDA

GENLOCK CONVERTER

GCON-SDI

GCON-HDMI

Operation Guide

Ver. 0.5 / May 2016

| ⚡ | **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, fire, electric shock, or damage to the product.
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.
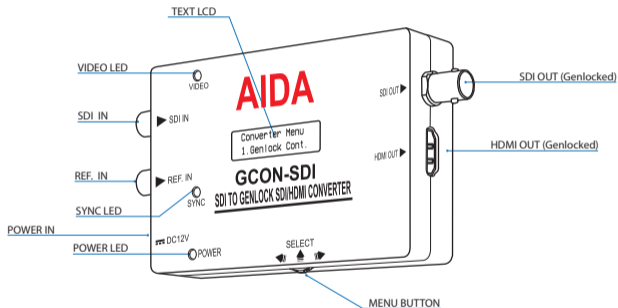
5. Do not drop the converter to avoid the damage or personal injury.
6. Do not place conductive objects (e.g. screw drivers, coins, metal items, etc.) or containers filled with water on top of the converter. Doing so may cause personal injury due to fire, electric shock, or falling objects.
7. Do not 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.
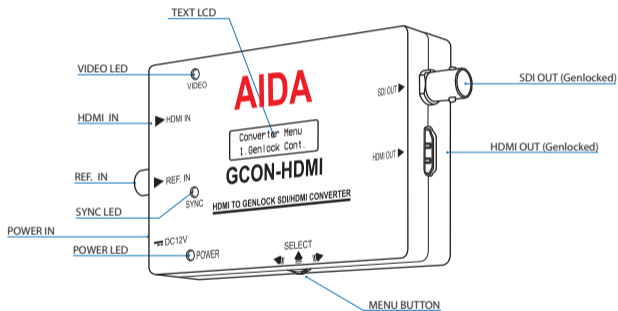
Precaution

Please read this Operation Guide before installing and using the converter & 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.

TEXT LCD

VIDEO LED

SDI IN

REF. IN

SYNC LED

POWER IN

POWER LED

AIDA

Converter Menu
1.Genlock Cont.

GCON-SDI
SDI TO GENLOCK SDI/HDMI CONVERTER

VIDEO

SDI IN

REF. IN

SYNC

DC12V

POWER

SELECT

SDI OUT

HDMI OUT

SDI OUT (Genlocked)

HDMI OUT (Genlocked)

MENU BUTTON

TEXT LCD

VIDEO LED

HDMI IN

REF. IN

SYNC LED

POWER IN

POWER LED

AIDA

Converter Menu
1.Genlock Cont.

GCON-HDMI

HDMI TO GENLOCK SDI/HDMI CONVERTER

VIDEO

HDMI IN

REF. IN

SYNC

DC12V

POWER

SELECT

SDI OUT

HDMI OUT

SDI OUT (Genlocked)

HDMI OUT (Genlocked)

MENU BUTTON

- SMPTE 292M & 424M standard high definition video format including 59.94Hz.
- SMPTE 352M Ancillary Data supported.
- Highly compatible with Tri Level reference.
- 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.
- Embedded audio pass through via SDI & HDMI.
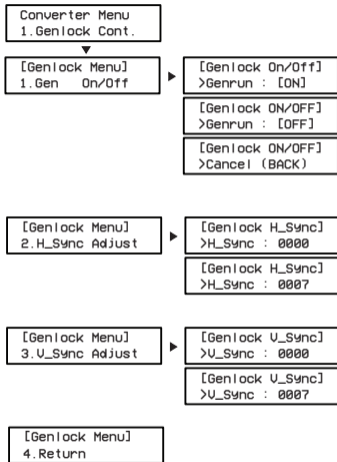- Simultaneous SDI and HDMI Output.

MENU	SUB MENU	
GENLOCK CONT.	GEN ON/OFF	GENRUN: [OFF]
		GENRUN: [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 HATCH
		PTN COLORBAR
		PTN GRAY
		PTN WINDOW
		PTN H_RAMP
		PTN WH_RAMP
		PTN WV_RAMP
		PTN DIAGONAL
		PTN RED
		PTN GREEN
		PTN BLUE
	RETURN	

MENU	SUB MENU		
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.	PAYLOAD ON/OFF	PAYLOAD [OFF]
			PAYLOAD [ON]
			CANCEL(BACK)
		RETURN	
	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	
	RETURN		
RESET	RESET RUN		
	RETURN		
EXIT			
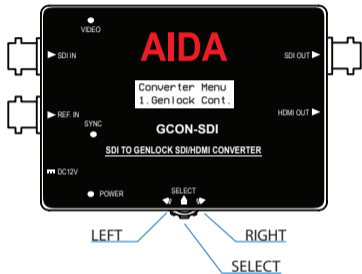
❶ Entering the main menu.
Press Enter button **three times** *to enter the main menu.*

❷ Change the menu items.
Use Right or Left menu to toggle through the menu.

❸ Select or enter the sub menu.
Use Enter button.

```
Converter Menu
1.Genlock Cont.
```

```
[Genlock Menu]
1.Gen  On/Off
```

```
[Genlock On/Off]
>Genrun : [ON]
```

```
[Genlock ON/OFF]
>Genrun : [OFF]
```

```
[Genlock ON/OFF]
>Cancel (BACK)
```

```
[Genlock Menu]
2.H_Sync Adjust
```

```
[Genlock H_Sync]
>H_Sync : 0000
```

```
[Genlock H_Sync]
>H_Sync : 0007
```

```
[Genlock Menu]
3.V_Sync Adjust
```

```
[Genlock V_Sync]
>V_Sync : 0000
```

```
[Genlock V_Sync]
>V_Sync : 0007
```

```
[Genlock Menu]
4.Return
```

GENLOCK CONT.

GEN ON/OFF

External reference input can be turned ON or OFF from this menu.
By using Left or Right button,
Select GENRUN[ON] *to enable external reference input.*
Select GENRUN[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
```
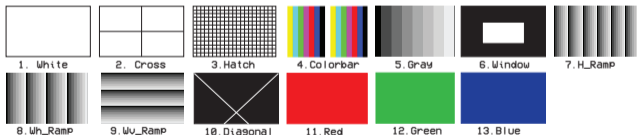
```
[Pattern On/Off]
>Pattern : [OFF]
```

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

```
[Pattern ON/OFF]
>Cancel (BACK)
```

PATTERN GEN..

PATTERN ON/OFF

Both SDI and HDMI outputs will generate patterns and input video will be disabled.
When GENLOCK is enabled, generated pattern will contain genlock 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
```
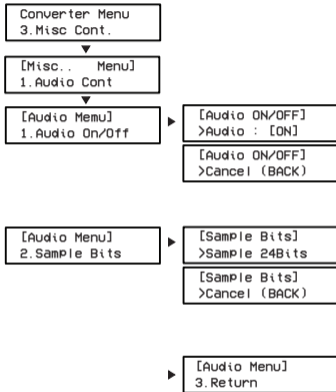
```
[Pattern Type]
14.Return
```

PATTERN TYPE

Converter provides thirteen different patterns.
By using Left or Right button,
By using Left or Right button, select the proper pattern type.

1. White 2. Cross 3. Hatch 4. Colorbar 5. Gray 6. Window 7. H_Ramp

8. Wh_Ramp 9. Wv_Ramp 10. Diagonal 11. Red 12. Green 13. Blue

```
[Pattern Menu]
3.Return
```

RETURN

Press SELECT button to Return to the main menu.

10

```
Converter Menu
3.Misc Cont.
```
▼
```
[Misc..  Menu]
1.Audio Cont
```
▼
```
[Audio Memu]
1.Audio On/Off
```
▶
```
[Audio ON/OFF]
>Audio : [ON]
```
```
[Audio ON/OFF]
>Cancel (BACK)
```

```
[Audio Menu]
2.Sample Bits
```
▶
```
[Sample Bits]
>Sample 24Bits
```
```
[Sample Bits]
>Cancel (BACK)
```

▶
```
[Audio Menu]
3.Return
```

MISC CONT.

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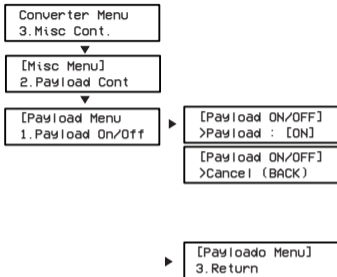 *Select* **CANCEL(BACK)** *to go back to the previous menu.*

➢**SAMPLE BITS** : 16 BITS, 20 BITS, 24 BITS
 AUDIO sample rates can be adjusted from this menu.

RETURN
Press SELECT button to Return to the main menu.

```
Converter Menu
3.Misc Cont.
```

```
[Misc Menu]
2.Payload Cont
```

```
[Payload Menu]
1.Payload On/Off
```

```
[Payload ON/OFF]
>Payload : [ON]
```

```
[Payload ON/OFF]
>Cancel (BACK)
```

```
[Payloado Menu]
3.Return
```

MISC CONT.

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.

```
Converter Menu
4.Display Cont.
        ▼
[Display Menu]
1.LCD Cont
```

        ▶
```
[LCD Disp Menu]
1.LCD BL On/Off

[LCD BL ON/OFF]
>LCD BL : [ON]

[LCD BL ON/OFF]
>Cancel (BACK)
```

        ▶
```
[LCD Disp Menu]
2.Display Type

[Display Type]
>Dynamic

[Display Type]
>Cancel (BACK)
```

        ▶
```
[Display Menu]
3.Return
```

DISPLAY CONT.

LCD CONT
This menu can control built in LCD display.

>LCD BL ON/OFF
LCD display backlight can be turned ON or OFF from this menu.
By using Left or Right button,
Select LCD[ON] to enable LCD backlight.
Select LCD[OFF] to disable LCD backlight.
Select CANCEL(BACK) to go back to the previous menu.

>DISPLAY TYPE : DYNAMIC. STATIC
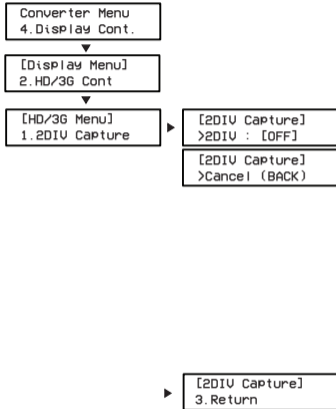*LCD display type can be adjusted from this menu.*
Select DYNAMIC to display the current input status of SDI and external reference.
Select STATIC to display the current external reference input and video output status.

RETURN
Press SELECT button to Return to the main menu.

```
Converter Menu
4.Display Cont.
```
▼
```
[Display Menu]
2.HD/3G Cont
```
▼
```
[HD/3G Menu]
1.2DIV Capture
```
▶
```
[2DIV Capture]
>2DIV : [OFF]
```
```
[2DIV Capture]
>Cancel (BACK)
```

DISPLAY CONT.

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

▶
```
[2DIV Capture]
3.Return
```

RETURN

Press SELECT button to Return to the main menu.

14

```
Converter Menu
5.Reset
```
▼
```
[Reset Menu]
1.Reset Run
```
▶
```
[Reset Menu]
 Wait.. -> ->
```
▼
```
[Reset Menu]
2.Return
```

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

RESET RUN
Select this menu to load factory default setting.

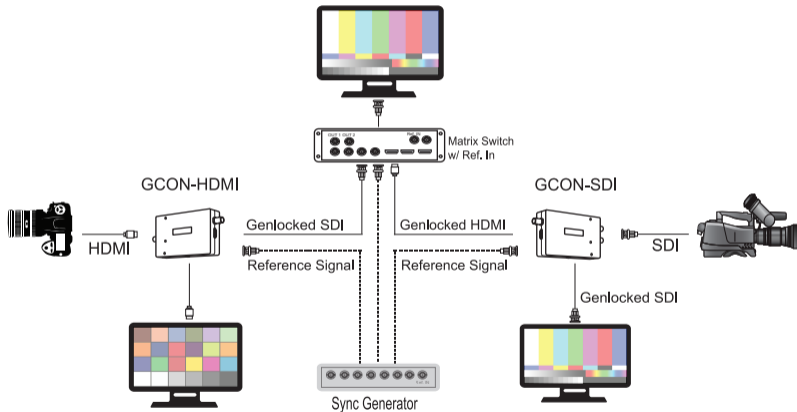### RETURN
Press SELECT button to Return to the main menu.
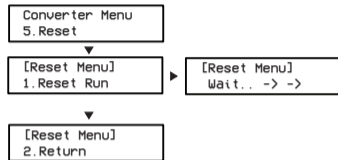
Input	3G-SDI, HD-SDI
SDI Input Format	SMPTE 292M, SMPTE 424M
Audio Input	Embedded SDI Audio
Input Resolution	1080p / 1080i: 1920 x 1080 Full HD 720p: 1280 x 720
Input Color Space	4:2:2(YCbCr) 10bit
Input Frame Rate	1080 60p / 59.94p / 50p / 30p / 29.97p / 25p 1080 60i / 59.94i / 50i 720 60p / 59.94p / 50p / 30p / 25p
SMPTE Standard	SMPTE 292M, SMPTE 424M
Video Signal Output	Genlocked HD-SDI/3G-SDI Pass Through Genlocked 10bit HDMI 1.3
Output Resolution	Same as Input
Output Frame Rate	Same as Input
Audio Output	16 Channel Embedded SDI Audio 8 Channel Embedded HDMI Audio
Synchronization	External Tri-Level Sync Input
Control	Control Button & LCD Display
Operation Temperature	15°F ~ 120°F
Dimension & Weight	127 x 77 x 28mm & 108g
Power Requirements	6W at 12VDC (+9 ~ +15VDC)

Specifications are subject to change without notice

Input	Full HD HDMI
SDI Input Format	SMPTE 292M, SMPTE 424M
Audio Input	Embedded SDI Audio
Input Resolution	1080p / 1080i: 1920 x 1080 Full HD 720p: 1280 x 720
Input Color Space	4:2:2(YCbCr) 10bit
Input Frame Rate	1080 60p / 59.94p / 50p / 30p / 29.97p / 25p 1080 60i / 59.94i / 50i 720 60p / 59.94p / 50p / 30p / 25p
SMPTE Standard	SMPTE 292M, SMPTE 424M
Video Signal Output	Genlocked HD-SDI/3G-SDI Genlocked 10bit HDMI 1.3 Pass Through
Output Resolution	Same as Input
Output Frame Rate	Same as Input
Audio Output	16 Channel Embedded SDI Audio 8 Channel Embedded HDMI Audio
Synchronization	External Tri-Level Sync Input
Control	Control Button & LCD Display
Operation Temperature	15°F ~ 120°F
Dimension & Weight	127 x 77 x 28mm & 108g
Power Requirements	6W at 12VDC (+9 ~ +15VDC)

Specifications are subject to change without notice

GCON-HDMI

GCON-SDI

HDMI

SDI

OUT 1 OUT 2

Matrix Switch
w/ Ref. In

Genlocked SDI

Genlocked HDMI

Reference Signal

Reference Signal

Genlocked SDI

Sync Generator

AIDA
IMAGING

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.