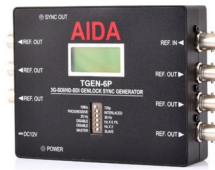


AIDA TGEN-6P Genlock Reference Sync Generator



# AIDA TGEN-6P Genlock Reference Sync Generator User Guide

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**AIDA**

**AIDA TGEN-6P Genlock Reference Sync Generator**



## Product Information

### Specifications

- Model: TGEN-6P
- Video Resolution: 1080p
- Video Frame Rate: 59.94Hz
- Video Format: 3G-SDI/HD-SDI
- Sync Generator: GENLOCK
- Power Input: DC12V

### Product Usage Instructions

#### 1. Safety Precautions

Before using the product, please read and understand the following safety precautions:

- Risk of Electric Shock: Do not open the product as it contains dangerous voltage.
- Electric Shock Warning: Electric shock may be present within the product. Refer to the user manual for proper operating and maintenance instructions.
- Residential Area Usage: Operation of this equipment in a residential area is likely to cause harmful interference.

#### 2. Installation

Follow these steps to install the TGEN-6P sync generator:

1. Ensure that the power is turned off and disconnected.

2. Connect the REF. IN cable to the appropriate input port on the TGEN-6P.
3. Connect the REF. OUT cables to the desired output ports on the TGEN-6P.
4. Connect the video cables (3G-SDI/HD-SDI) to the corresponding input and output ports.
5. Connect the power cable to the DC12V input port.
6. Turn on the power and ensure that all connections are secure.

### **3. Operating Modes**

The TGEN-6P sync generator has two operating modes: Master and Slave. Follow the instructions below to switch between modes:

#### **Master Mode:**

1. Press the ON button to turn on the TGEN-6P.
2. Set the video resolution to 1080x PROGRESSIVE.
3. Set the video frame rate to 25 Hz.
4. Disable REF. OUT and SYNC OUT.

#### **Slave Mode:**

1. Press the ON button to turn on the TGEN-6P.
2. Set the video resolution to 720p INTERLACED.
3. Set the video frame rate to 30 Hz.
4. Enable REF. OUT and SYNC OUT.

### **FAQ**

#### **Q: What is the power input for the TGEN-6P sync generator?**

A: The TGEN-6P sync generator has a DC12V power input.

#### **Q: What are the available video resolutions and frame rates?**

A: The TGEN-6P supports a video resolution of 1080p and a frame rate of 59.94Hz.

#### **Q: How do I switch between Master and Slave modes?**

A: To switch to Master mode, set the video resolution to 1080x PROGRESSIVE, frame rate to 25 Hz, and disable REF. OUT and SYNC OUT. To switch to Slave mode, set the video resolution to 720p INTERLACED, frame rate to 30 Hz, and enable REF. OUT and SYNC OUT.

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

**Precaution**

This exclamation point 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. Securely plug the power cord into the power receptacle. Insecure connection may cause fire.
4. 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.
5. Do not install the unit in humid, dusty, or sooty locations. Doing so may cause fire or electric shock.
6. 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.
7. If this product fails to operate normally, contact the nearest service center. Never disassemble or modify this product in any way.
8. When cleaning, do not spray water directly onto parts of the product. Doing so may cause fire or electric shock.

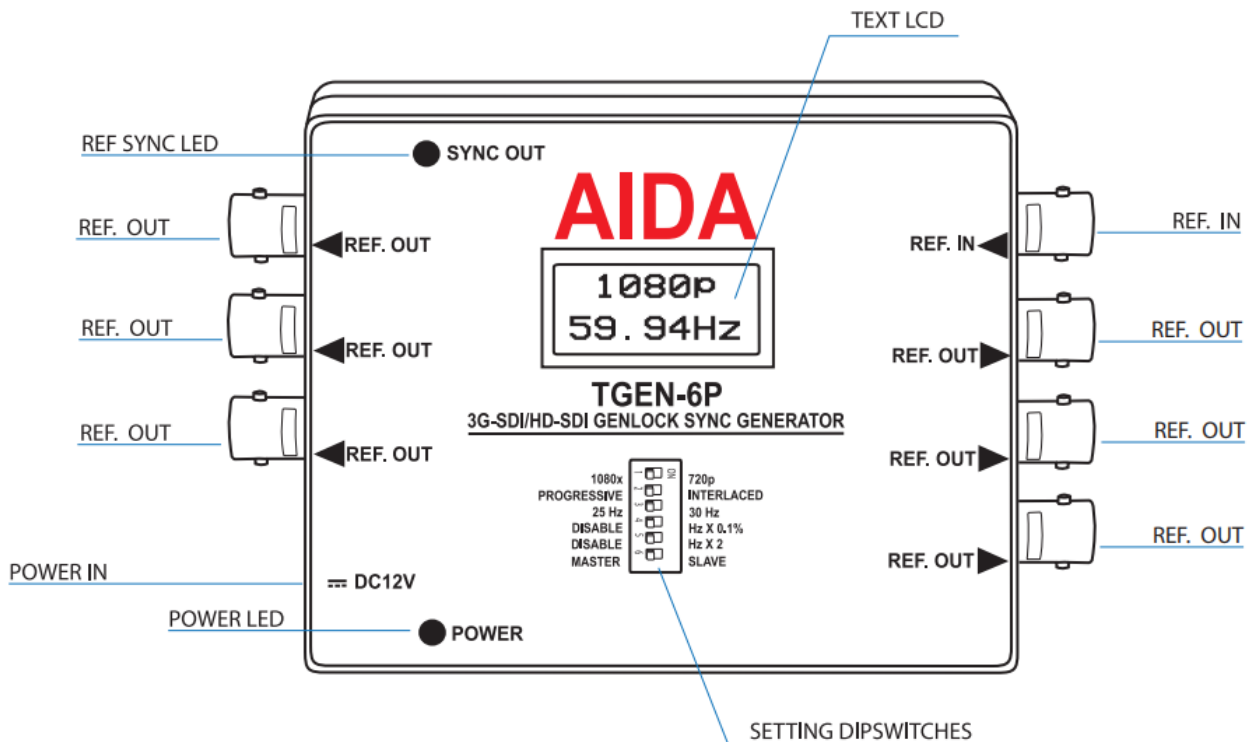
**Precaution**

Please read this Operation Guide before installing and using the device & 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 the device if fumes, smoke or a strange odor is emitted from the device, or if it seems not functional correctly. Disconnect the power source immediately and consult with your supplier.
3. Do not use the device in extreme environments where high temperatures or high humidity exists. Use the device under conditions where temperatures are between 32°F ~ 104°F, and humidity is below 90%.

4. To prevent damage, do not drop the converter or subject it to strong shock or vibration.

## Overview

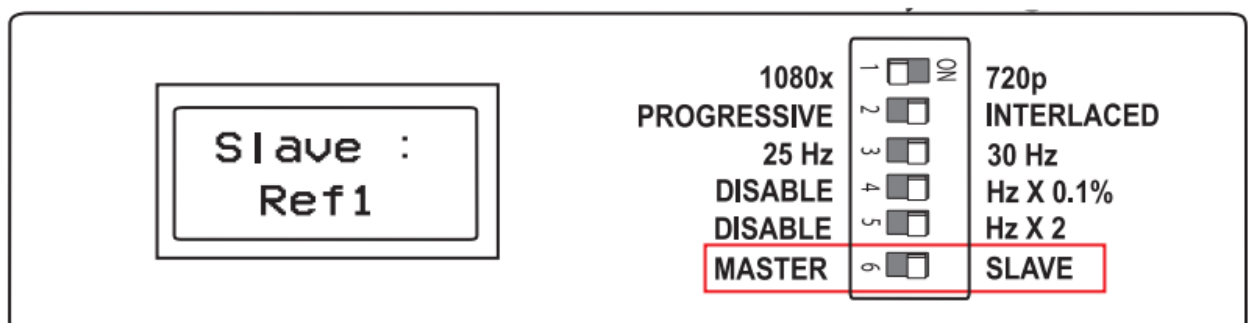


## FEATURES

- Multi-format HD Tri Level Sync up to 1080p60
- Both V Sync and H Sync generation for more accurate timing
- Up to 6 synchronized reference output per device
- Slave mode for cascading
- Built in LCD screen
- Built in setting dipswitches
- Versatile, compact, and rugged design.

## OPERATION

- SLAVE Mode
  - When switch 6 is set to SLAVE, TGEN-6P will go to SLAVE mode. External reference input will be the main reference sync source. TGEN-60 will distribute external reference sync signal.



- **MASTER Mode**

- When switch 6 is set to MASTER, TGEN-6P will generate reference signals set by the dip switches.

TGEN-6P supports 15 different HD formats.

- 720p: 60 / 59.94 / 50 / 30 / 29.97 | 25
- 1080i: 60 / 59.94 / 50
- 1080p: 60 / 59.94 / 50 / 30 / 29.97 / 25

## Setting

### 720p Setting

<div>720p 25Hz</div>	1080x PROGRESSIVE 25 Hz DISABLE DISABLE MASTER	<div>1 2 3 4 5 6</div> <div>NO</div>	720p INTERLACED 30 Hz Hz X 0.1% Hz X 2 SLAVE
<div>720p 50Hz</div>	1080x PROGRESSIVE 25 Hz DISABLE DISABLE MASTER	<div>1 2 3 4 5 6</div> <div>NO</div>	720p INTERLACED 30 Hz Hz X 0.1% Hz X 2 SLAVE
<div>720p 29.97Hz</div>	1080x PROGRESSIVE 25 Hz DISABLE DISABLE MASTER	<div>1 2 3 4 5 6</div> <div>NO</div>	720p INTERLACED 30 Hz Hz X 0.1% Hz X 2 SLAVE
<div>720p 59.94Hz</div>	1080x PROGRESSIVE 25 Hz DISABLE DISABLE MASTER	<div>1 2 3 4 5 6</div> <div>NO</div>	720p INTERLACED 30 Hz Hz X 0.1% Hz X 2 SLAVE
<div>720p 30Hz</div>	1080x PROGRESSIVE 25 Hz DISABLE DISABLE MASTER	<div>1 2 3 4 5 6</div> <div>NO</div>	720p INTERLACED 30 Hz Hz X 0.1% Hz X 2 SLAVE
<div>720p 60Hz</div>	1080x PROGRESSIVE 25 Hz DISABLE DISABLE MASTER	<div>1 2 3 4 5 6</div> <div>NO</div>	720p INTERLACED 30 Hz Hz X 0.1% Hz X 2 SLAVE

### 1080i Setting

1080i  
50Hz

1080x  
PROGRESSIVE  
25 Hz  
DISABLE  
DISABLE  
MASTER

1  
2  
3  
4  
5  
6

720p  
INTERLACED  
30 Hz  
Hz X 0.1%  
Hz X 2  
SLAVE

1080i  
59.94Hz

1080x  
PROGRESSIVE  
25 Hz  
DISABLE  
DISABLE  
MASTER

1  
2  
3  
4  
5  
6

720p  
INTERLACED  
30 Hz  
Hz X 0.1%  
Hz X 2  
SLAVE

1080i  
60Hz

1080x  
PROGRESSIVE  
25 Hz  
DISABLE  
DISABLE  
MASTER

1  
2  
3  
4  
5  
6

720p  
INTERLACED  
30 Hz  
Hz X 0.1%  
Hz X 2  
SLAVE

## 1080p Setting

10800p  
25Hz

1080x  
PROGRESSIVE  
25 Hz  
DISABLE  
DISABLE  
MASTER

1  
2  
3  
4  
5  
6

720p  
INTERLACED  
30 Hz  
Hz X 0.1%  
Hz X 2  
SLAVE

1080p  
50Hz

1080x  
PROGRESSIVE  
25 Hz  
DISABLE  
DISABLE  
MASTER

1  
2  
3  
4  
5  
6

720p  
INTERLACED  
30 Hz  
Hz X 0.1%  
Hz X 2  
SLAVE

1080p  
29.97Hz

1080x  
PROGRESSIVE  
25 Hz  
DISABLE  
DISABLE  
MASTER

1  
2  
3  
4  
5  
6

720p  
INTERLACED  
30 Hz  
Hz X 0.1%  
Hz X 2  
SLAVE

1080p  
59.94Hz

1080x  
PROGRESSIVE  
25 Hz  
DISABLE  
DISABLE  
MASTER

1  
2  
3  
4  
5  
6

720p  
INTERLACED  
30 Hz  
Hz X 0.1%  
Hz X 2  
SLAVE

1080p  
30Hz

1080x  
PROGRESSIVE  
25 Hz  
DISABLE  
DISABLE  
MASTER

1  
2  
3  
4  
5  
6

720p  
INTERLACED  
30 Hz  
Hz X 0.1%  
Hz X 2  
SLAVE

1080p  
60Hz

1080x  
PROGRESSIVE  
25 Hz  
DISABLE  
DISABLE  
MASTER

1  
2  
3  
4  
5  
6

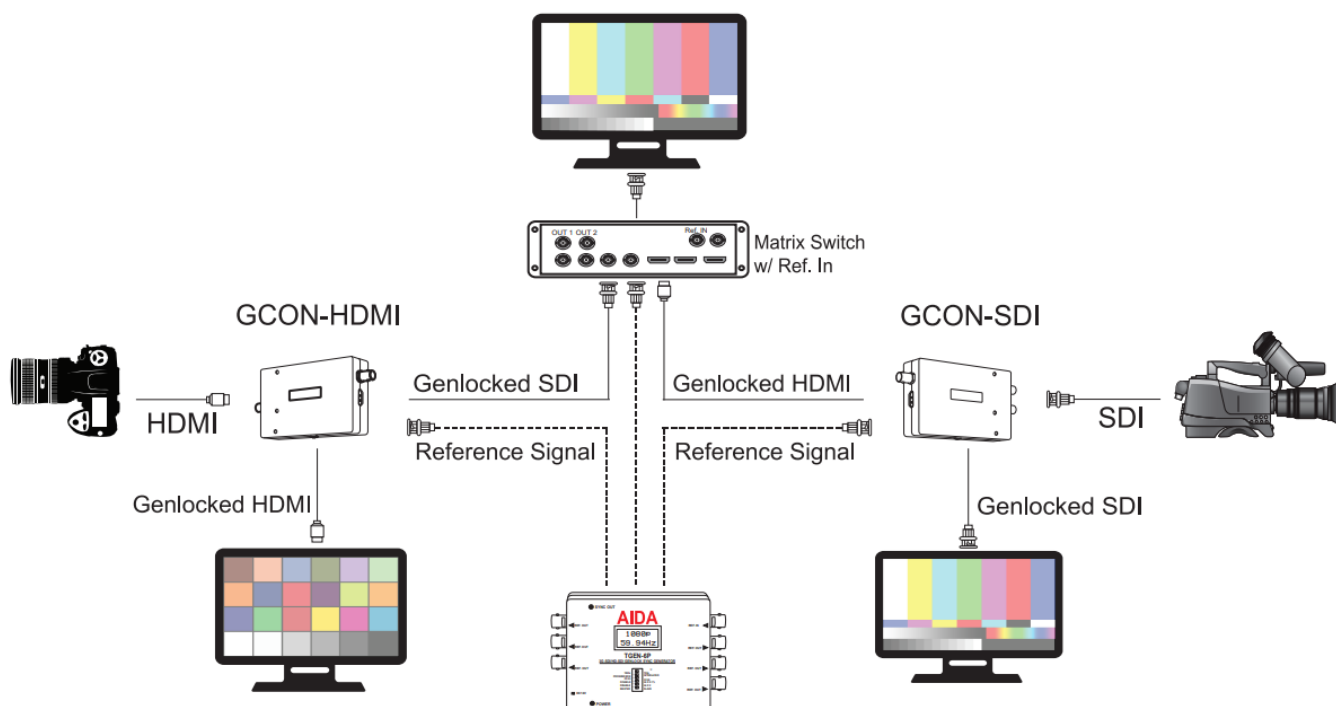
720p  
INTERLACED  
30 Hz  
Hz X 0.1%  
Hz X 2  
SLAVE

## SPECIFICATION

Sync	Tri-Level HD
Output	6 x BNC
Input	SD Bi Level or HD Tri Level
Format	1080p 60 / 59.94 / 50 / 30 / 29.97 / 25 1080i 60 / 59.94 / 50 720p 60 / 59.94 / 50 / 30 / 25
SMPTE Standard	SMPTE 274M, SMPTE 296M
Control	Dipswitches & LCD Screen
Operation Temperature	15°F ~ 120°F
Dimension & Weight	129 x 86 x 29mm & 278g
Power Requirements	12VDC (Power adaptor included)

Specifications are subject to change without notice

## CONNECTION



## 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 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.


## FCC Statement

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.

## Documents / Resources

	<a href="#">AIDA TGEN-6P Genlock Reference Sync Generator</a> [pdf] User Guide TGEN-6P Genlock Reference Sync Generator, TGEN-6P, Genlock Reference Sync Generator, Reference Sync Generator, Sync Generator, Generator
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## References

-  [Manual-Hub.com - Free PDF manuals!](#)
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