



Gen-Lock Reference SYNC Generator

TGEN-6P

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. 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 camera. Doing so may cause personal injury due to fire, electric shock, or falling objects.

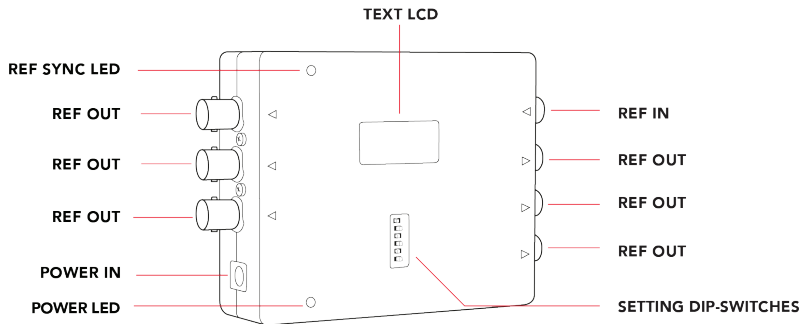
Warning continues

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.

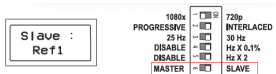
PRECAUTION

Please read this Operation Guide before installing and using the 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 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.



- 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 dip-switches.
- Versatile, compact, and rugged design.



- **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

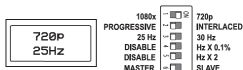
1080p: 60 / 59.94 / 50 / 30 / 29.97 / 25

720p SETTING

**720P
25Hz**

1080x
PROGRESSIVE
25 Hz
DISABLE
DISABLE
MASTER

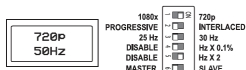
720p
INTERLACED
30 Hz
Hz X 0.1%
Hz X 2
SLAVE

A diagram showing the 720p 25Hz setting. On the left is a box containing '720P' and '25Hz'. To its right are two columns of settings. The first column is for 1080x PROGRESSIVE, with '25 Hz' selected and 'DISABLE' and 'MASTER' options. The second column is for 720p INTERLACED, with '30 Hz' selected and 'Hz X 0.1%' and 'Hz X 2' options. A vertical dotted line is to the right of the diagram.

**720P
50Hz**

1080x
PROGRESSIVE
25 Hz
DISABLE
DISABLE
MASTER


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

A diagram showing the 720p 50Hz setting. On the left is a box containing '720P' and '50Hz'. To its right are two columns of settings. The first column is for 1080x PROGRESSIVE, with '25 Hz' selected and 'DISABLE' and 'MASTER' options. The second column is for 720p INTERLACED, with '30 Hz' selected and 'Hz X 0.1%' and 'Hz X 2' options. A vertical dotted line is to the right of the diagram.

**720P
29.97Hz**

1080x
PROGRESSIVE
25 Hz
DISABLE
DISABLE
MASTER

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

A diagram showing the 720p 29.97Hz setting. On the left is a box containing '720P' and '29.97Hz'. To its right are two columns of settings. The first column is for 1080x PROGRESSIVE, with '25 Hz' selected and 'DISABLE' and 'MASTER' options. The second column is for 720p INTERLACED, with '30 Hz' selected and 'Hz X 0.1%' and 'Hz X 2' options. A vertical dotted line is to the right of the diagram.

**720P
59.94Hz**

1080x
PROGRESSIVE
25 Hz
DISABLE
DISABLE
MASTER

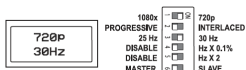
720p
INTERLACED
30 Hz
Hz X 0.1%
Hz X 2
SLAVE

A diagram showing the 720p 59.94Hz setting. On the left is a box containing '720P' and '59.94Hz'. To its right are two columns of settings. The first column is for 1080x PROGRESSIVE, with '25 Hz' selected and 'DISABLE' and 'MASTER' options. The second column is for 720p INTERLACED, with '30 Hz' selected and 'Hz X 0.1%' and 'Hz X 2' options. A vertical dotted line is to the right of the diagram.

**720P
30Hz**

1080x
PROGRESSIVE
25 Hz
DISABLE
DISABLE
MASTER

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

A diagram showing the 720p 30Hz setting. On the left is a box containing '720P' and '30Hz'. To its right are two columns of settings. The first column is for 1080x PROGRESSIVE, with '25 Hz' selected and 'DISABLE' and 'MASTER' options. The second column is for 720p INTERLACED, with '30 Hz' selected and 'Hz X 0.1%' and 'Hz X 2' options. A vertical dotted line is to the right of the diagram.

**720P
60Hz**

1080x
PROGRESSIVE
25 Hz
DISABLE
DISABLE
MASTER

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

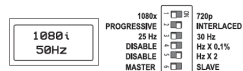
A diagram showing the 720p 60Hz setting. On the left is a box containing '720P' and '60Hz'. To its right are two columns of settings. The first column is for 1080x PROGRESSIVE, with '25 Hz' selected and 'DISABLE' and 'MASTER' options. The second column is for 720p INTERLACED, with '30 Hz' selected and 'Hz X 0.1%' and 'Hz X 2' options. A vertical dotted line is to the right of the diagram.

1080i SETTING

**1080i
50Hz**

1080x
PROGRESSIVE
25 Hz
DISABLE
DISABLE
MASTER

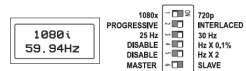
720p
INTERLACED
30 Hz
Hz X 0.1%
Hz X 2
SLAVE

A diagram showing the 1080i 50Hz setting. On the left is a box containing '1080i' and '50Hz'. To its right are two columns of settings. The first column is for 1080x PROGRESSIVE, with '25 Hz' selected and 'DISABLE' and 'MASTER' options. The second column is for 720p INTERLACED, with '30 Hz' selected and 'Hz X 0.1%' and 'Hz X 2' options. A vertical dotted line is to the right of the diagram.

**1080i
59.94Hz**

1080x
PROGRESSIVE
25 Hz
DISABLE
DISABLE
MASTER

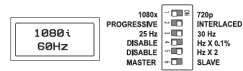
720p
INTERLACED
30 Hz
Hz X 0.1%
Hz X 2
SLAVE

A diagram showing the 1080i 59.94Hz setting. On the left is a box containing '1080i' and '59.94Hz'. To its right are two columns of settings. The first column is for 1080x PROGRESSIVE, with '25 Hz' selected and 'DISABLE' and 'MASTER' options. The second column is for 720p INTERLACED, with '30 Hz' selected and 'Hz X 0.1%' and 'Hz X 2' options. A vertical dotted line is to the right of the diagram.

**1080i
60Hz**

1080x
PROGRESSIVE
25 Hz
DISABLE
DISABLE
MASTER

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

A diagram showing the 1080i 60Hz setting. On the left is a box containing '1080i' and '60Hz'. To its right are two columns of settings. The first column is for 1080x PROGRESSIVE, with '25 Hz' selected and 'DISABLE' and 'MASTER' options. The second column is for 720p INTERLACED, with '30 Hz' selected and 'Hz X 0.1%' and 'Hz X 2' options. A vertical dotted line is to the right of the diagram.

1080p SETTING

10800p 25Hz	1080x	<input type="checkbox"/>	720p
	PROGRESSIVE	<input type="checkbox"/>	INTERLACED
	25 Hz	<input type="checkbox"/>	30 Hz
	DISABLE	<input type="checkbox"/>	Hz X 0,1%
	DISABLE	<input type="checkbox"/>	Hz X 2
MASTER	<input type="checkbox"/>	SLAVE	

1080p 50Hz	1080x	<input type="checkbox"/>	720p
	PROGRESSIVE	<input type="checkbox"/>	INTERLACED
	25 Hz	<input type="checkbox"/>	30 Hz
	DISABLE	<input type="checkbox"/>	Hz X 0,1%
	DISABLE	<input type="checkbox"/>	Hz X 2
MASTER	<input type="checkbox"/>	SLAVE	

1080p 29.97Hz	1080x	<input type="checkbox"/>	720p
	PROGRESSIVE	<input type="checkbox"/>	INTERLACED
	25 Hz	<input type="checkbox"/>	30 Hz
	DISABLE	<input type="checkbox"/>	Hz X 0,1%
	DISABLE	<input type="checkbox"/>	Hz X 2
MASTER	<input type="checkbox"/>	SLAVE	

1080p 59.94Hz	1080x	<input type="checkbox"/>	720p
	PROGRESSIVE	<input type="checkbox"/>	INTERLACED
	25 Hz	<input type="checkbox"/>	30 Hz
	DISABLE	<input type="checkbox"/>	Hz X 0,1%
	DISABLE	<input type="checkbox"/>	Hz X 2
MASTER	<input type="checkbox"/>	SLAVE	

720p 30Hz	1080x	<input type="checkbox"/>	720p
	PROGRESSIVE	<input type="checkbox"/>	INTERLACED
	25 Hz	<input type="checkbox"/>	30 Hz
	DISABLE	<input type="checkbox"/>	Hz X 0,1%
	DISABLE	<input type="checkbox"/>	Hz X 2
MASTER	<input type="checkbox"/>	SLAVE	

1080p 60Hz	1080x	<input type="checkbox"/>	720p
	PROGRESSIVE	<input type="checkbox"/>	INTERLACED
	25 Hz	<input type="checkbox"/>	30 Hz
	DISABLE	<input type="checkbox"/>	Hz X 0,1%
	DISABLE	<input type="checkbox"/>	Hz X 2
MASTER	<input type="checkbox"/>	SLAVE	

SYNCHRONIZATION

Reference Out	Tri-Level HD
Format	1080p 60/59.94/50/30/29.97/25Hz
	1080i 60/59.94/50Hz
	720p 60/59.94/50/30/25Hz
Accuracy	2ppm
Reference In	Tri-Level HD & Bi-Level SD

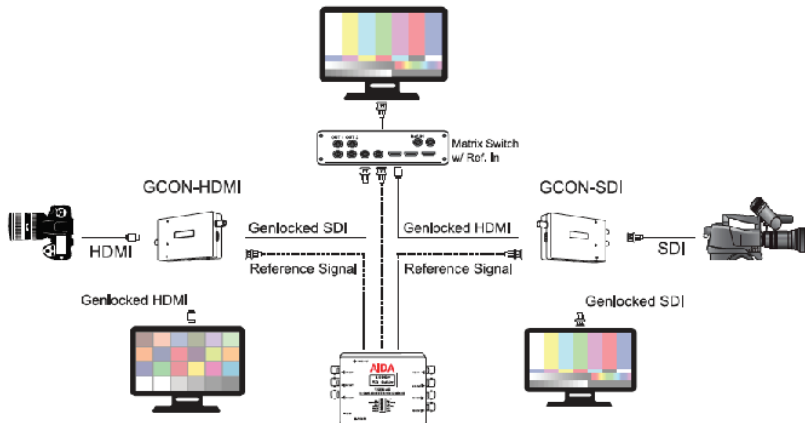
STANDARD

SMPTE	SMPTE 274M, SMPTE 296M
-------	------------------------

PHYSICAL

Control	Dip-switches & Text LCD
Operation Temp	32° F - 104° F
Dimension	129mm x 86m x 29mm / 5.07" x 3.38" x 1.10"
Weight	278g / 0.61lbs
Power	12VDC (+9 - +15VDC)

*Specification are subject to change without notice.



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

AIDA

IMAGING



기자재 명칭(모델명) : Signal Converter
인증번호 : R-R-aid-TOEN-6P
양용 방음 차의 상호 : (주)에이치올레스텍
제조년월 :
제조자/제조국가 : (주)에이치올레스텍 / 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.

