

NEW

TG59A

Advanced Test Signal Generator

Full HD
1080/60p

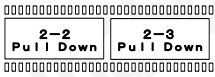
HDMI™

xvYCC

10kg



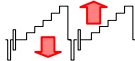
Horizontal
0.5 dot Scroll



Pull-Down output



Bounce function



Special function

General

The TG59A series is standard equipment of the HDMI output and the ideal test signal generator for the examination and the measurement of the television format corresponding to the SDTV 8 system such as NTSC/PAL and HDTV 27 system up to 1080/60p format. It is the optimum signal source of the high-quality, analog signal wave characteristic for a standard signal for the image quality examination.

In addition, It equips with the basic function of enhancement, like the HDMI Ver.1.3 output plus SD/HD-SDI output (AP type), the xvYCC evaluation image (A natural image optional), 2-2 · 2-3 pull-down output, the image scroll function (It is possible to set it by 0.5 horizontal dots or more), and the bounce function and the output level and the phase changeability function, etc.

It is a high performance test signal generator that can be used for the design study on a television set and an image engine system device and for the operation verification in the quality control department and the manufacturing process.

Feature

- ◆ Excellent small size and light (Approx. 10kg) design in portability.
- ◆ The analog video signal waveform accuracy that exceeds the class is achieved.
- ◆ TG59 has rich output format (SDTV / HDTV / VESA) ** TG59 supported not over 165MHz in VESA format.

SDTV		NTSC, NTSC-4.43, PAL-B/G/D/H/I, PAL-M, PAL-N, PAL-60, 525P, 625P
HDTV	1035 line*1	60i, 60i/(1.001)
	1080 line*1	60i, 60i/(1.001), 50i, 60p, 60p/(1.001), 50p, 30p, 30p/(1.001), 25p, 24p, 24p/(1.001), 30PsF, 30PsF/(1.001), 25PsF, 24PsF, 24PsF/(1.001)
	720 line*1	60p, 60p/(1.001), 50p, 30p, 30p/(1.001), 25p, 24p, 24p/(1.001)
	1080(1250*2) line*1	50i

*1: Effective scanning lines *2: Total scanning lines

- ◆ Equipped HDMI Ver1.3 output as standard
 TG59 's output is 12bit Video data for Deep Color.
 Test Signal for xvYCC (Colorbar, Special Ramp pattern, Raster) is standard.
 We could provide Special Pattern package for xvYCC (22 patterns) ** option **
- ◆ Supported 2-2, 2-3 Pull-down function.
- ◆ Supported an effective scroll & bounce function to the evaluation of animation and the brightness response
- ◆ Supported Level & Phase adjustment function in real time. Simply said TG59 could make Not-Standard signal
- ◆ TG59 has about 50 test signal pattern each TV format.
- ◆ If you use convert software, BMP/TIFF/JPEG data could convert T59's format and output from TG59 .

■ Specifications

- ◇ Analog Video Signal Output (common TG59AX/AP)
 - Accuracy of output level
 - YPbPr Standard Value within +/- 3%
 - GBR Standard Value within +/- 3%
 - But In case of Standard Value is within 300.0 mV,
 - Standard Value within +/- 100mV
 - C Standard Value within +/- 3%
 - Phase contrast between Channels
 - TV Standard Value (0.0 ns) within +/- 1.0 ns
 - VESA Standard Value (0.0 ns) within +/- 1.0 ns
 - Frequency Quality (TV Format)
 - Y, G, B, R DC~60MHz, 714/700 mVp-p (= 0.0 dB) within +/- 0.3dB
 - Pb, Pr DC~30 MHz, 700 mVp-p (= 0.0dB) Within +/- 0.3 dB
 - S/N
 - TV DC~30 MHz, 714/700 mVp-p(=0.0dB) not over 60.0dBms
 - VESA Noise Level not over 10.0 mVp-p
 - Linearity
 - TV Standard Value within +/- 3%
 - But In case of Standard Value is within 300.0 mV,
 - Standard Value within +/- 100mV
 - VESA Standard Value within +/- 3%
 - But In case of Standard Value is within 300.0 mV,
 - Standard Value within +/- 100mV

- ◇ Analog Audio Signal Output (common TG59AX/AP)
 - Channel 2ch
 - Frequency 400Hz, 1 kHz, 3 kHz, MUTE
 - Level 0dBFS, -18dBFS, -20dBFS
 - Output Level 1.0Vp-p(0dBFS, 600Ω ohm dead-end)

- ◇ HDMI Output (common TG59AX/AP)
 - Output port 2 ports
 - Output Format YPbPr, GBR
 - Video Output Format CEA-861D (59 Format)
 - Video Sampling YPbPr (4:2:2/4:4:4), GBR (4:4:4)
 - ColorDepth 8bit, 10bit, 12bit
 - Internal Audio 8ch LPCM
 - Audio Sampling Frequency 32kHz, 44.1kHz, 48kHz
 - Audio Frequency 400Hz, 1kHz, 3kHz, MUTE
 - Audio Bit value 16bit, 20bit, 24bit
 - Audio Level 0dBFS, -18dBFS, -20dBFS
 - External Audio Input S/PDIF
 - xvYCC Supported 601, 709
 - Info-Frame edit function
 - DVI-D Output supported Dot clock is 165MHz format
Need HDMI-DVI cable option

- ◇ SDI Output (TG59AP only)
 - Output port BNC 2output (SD/HD switch)
 - STANDARDS Supported SD-SDI SMPTE259M
Supported HD-SDI SMPTE292M
10bit, 4:2:2 Single link SDI Output
 - Video Output Format
 - SDTV NTSC(525i), PAL(625i)
 - HDTV HDTV formats
Not supported 1080/60p(59.94p),
1080 / 50p, 1080 / 50i
 - Audio Signal Output
 - STANDARDS
 - SD-SDI Supported SMPTE272M
 - HD-SDI Supported SMPTE299M
 - Channel Max 8CH (common SD/HD)
 - Output Frequency 400Hz, 1kHz, 3kHz, MUTE
 - Output Level 0dBFS, -18dBFS, -20dBFS
 - Sampling Frequency 48kHz
 - Quantized Bit 20bit, 24bit

- ◇ General Specifications
 - Operating temperature 5°C~40°C, 30%~90%RH (nondewing)
 - Power Supply AC90~135, 180~264V/47~63Hz
 - Power Consumption Max 300VA
 - Dimensions 330(W) x 150(H) x 370(D)mm
 - Weight About 10kg
 - Accessory
 - AC cable 1 set
 - 3P-2P convert plug 1 set
 - HDMI cable 1 set
 - Manual 1 set
 - Operation Manual 1 set
 - Test Signal Manual 1 set
 - RS232C I / F Manual 1 set
 - Image tools Manual 1 set

Selection Guide

Model	TG59AX	TG59AP
Output Signal		
Analog Signal	○	○
HDMI1.3	○	○
SD/HD-SDI	—	○



ShibaSoku Co.,Ltd.

URL :www.shibasoku.com

International Sales Dept.

3-2, Hisamoto 3-chome, Takatsu-ku, Kawasaki-shi, Kanagawa, 213-0011 Japan

Phone: +81-44-850-5133 Fax: +81-44-850-5134