

NEW

TG59A

Advanced Test Signal Generator

**Full HD
1080/60P**

HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

xvYCC

7 kg Compact



**Horizontal
0.5 dot Scroll**

2-2 Pull Down 2-3 Pull Down

Pull-down output

Bounce function

Level Variable

■ General

The TG59A provides HDMI output as well as HDTV 27 systems up to 1080/60P along with SDTV 8 systems. It is suitable for use as standard signal generator; evaluation and the testing of the television format corresponding to the many TV systems through its high-quality analog signal wave. The TG59A is cost performance signal generator and its easy operation is available through its simple user menu and key assignment.

The TG59A incorporates many variety of function such as HDMI Ver.1.3 output plus SD/HD-SDI output (AP type model), xvYCC evaluation image (Still pictures as an option), 2-2/2-3 pull-down output, the image scroll function (settable by 0.5 dots horizontally), bounce function and output level and the phase variable function, etc.

The TG59A is suitable and useful in many scenes such as TV sets R&D, evaluation for video engine circuits or devices, operation in production line. QC test items which are necessary for long persistence in the test signal quality on QC division will also be fit through its performance.

■ Features

- ◇ Small and light weight (approx. 7 kg) design in easy for transport.
- ◇ Excellent analog video signal waveform accuracy that exceeds the class
- ◇ TG59A has well 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

- ◇ HDMI Ver1.3 output as standard
 - 12bit video data for deep color evaluation.
 - xvYCC (Colorbar, Special Ramp pattern, Raster) as standard.
 - Provide Special Pattern package for xvYCC (22 patterns). (option)
- ◇ Supports 2-2, 2-3 Pull-down function.
- ◇ Supports an effective scroll & bounce function for the evaluation of animation and the brightness response.
- ◇ Simulation by non standard signal such as level restrictions will also be made through level & phase variable functions.
- ◇ Over 50 kinds of test signal patterns for each TV format.
- ◇ Capable of BMP, TIFF, JPEG data conversion to the test signal on TG59A by standard software installed by USB.

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 to 60 MHz, 714/700 mVp-p (= 0.0 dB) within +/- 0.3 dB
 - Pb, Pr DC to 30 MHz, 700 mVp-p (= 0.0dB) within +/- 0.3 dB
 - S/N
 - TV DC to 30 MHz, 714/700 mVp-p (=0.0 dB) not over 60.0 dBrms
 - 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
- ◇ SDI Output (TG59AP only)
 - Output port BNC 2 outputs (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 support 1080/60p (59.94p), 1080/50p and 1080 (1250) /50i
 - Audio signal output
 - Standards
 - SD-SDI Supported SMPTE272M
 - HD-SDI Supported SMPTE299M
 - Channel Max. 8CH (common SD/HD)
 - Output frequency 400 Hz, 1 kHz, 3 kHz, MUTE
 - Output level 0 dBFS, -18 dBFS, -20 dBFS
 - Sampling frequency 48 kHz
 - Quantized Bit 20 bit, 24 bit
- ◇ General Specifications
 - Operating temperature 5°C to 40°C, 30% to 90%RH (non dew)
 - Power supply AC 90 to 135, 180 to 264 V / 47 to 63Hz
 - Power consumption Max 300 VA
 - Dimensions 330 (W) x 150 (H) x 370 (D) mm
 - Weight Approx. 7 kg
 - 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
- ◇ Analog Audio Signal Output (common TG59AX/AP)
 - Channel 2ch
 - Frequency 400 Hz, 1 kHz, 3 kHz, MUTE
 - Level 0 dBFS, -18 dBFS, -20 dBFS
 - Output Level 1.0Vp-p (0 dBFS, 600Ω ohm dead-end)
- ◇ HDMI Output (common TG59AX/AP)
 - Output port 2 ports
 - Output format YPbPr, GBR
 - Video output format CEA-861D (59 Formats)
 - Video sampling YPbPr (4:2:2/4:4:4), GBR (4:4:4)
 - Color depth 8 bit, 10 bit, 12 bit
 - Internal audio 8ch LPCM
 - Audio sampling frequency 32 kHz, 44.1 kHz, 48 kHz
 - Audio frequency 400 Hz, 1 kHz, 3 kHz, MUTE
 - Audio bit value 16 bit, 20 bit, 24 bit
 - Audio level 0 dBFS, -18 dBFS, -20 dBFS
 - External audio input S/PDIF
 - xvYCC Supported 601, 709
 - Info-Frame edit function
 - DVI-D Output supported dot clock is 165 MHz format
Need HDMI-DVI cable option

Selection Guide

Model	TG59AX	TG59AP
Analog Signal	A	A
HDMI1.3	A	A
SD/HD-SDI	N/A	A



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