TG4000 4K Test Signal Generator

Main Specifications

Item	Specification
1. Input Specification	·
Reference	BB/Tri-SYNC/CW 10MHz BNC 1 input (Loop through) 75 Ω
2. Output Specifications	
SG-A/SG-B(main)	3G-SDIx4 outputs BNC 2 Distributions 75 Ω
CB(Color Bar)	3G-SDIx4 outputs BNC 1 Distribution 75 Ω
BLACK	3G-SDIx4 outputs BNC 1 Distribution 75 Ω, No Audio
Sample Structures	Square division, 2-sample interleave division
Sync Signal Output (Option)	10 BNC Outputs 75 Ω Output phase is variable Out1 - 3 BB fixed, Out4 - 6 BB/Tri-Sync selectable in set Out7 - 8 BB/Tri-Sync Selectable in set Out9 - 10 Audio word clock
3. Video Specifications	
Valid pixel number, Frame frequency, Sampling	3840x2160, 4096x2160 59.94Hz/50Hz YCbCr 4:2:2 10bit
Colorimetric	Rec. ITU-R BT.2020/BT.709 selectable, Split Color Bar
Superimposed signals	Logo (BMP, Floating object), Marker signal
Test Signals	COLOR BAR, CROSS, SWEEP, WINDOW, RASTER, PATHOLOGICAL, STEP, RAMP, Mono-scope, CZP, Natural Pictures
4. Embedded Audio Specifications	
Sampling, Quantization	48kHz (Synchronized with Video Clock) 20bit, 24bit
Channel Number	16ch (at Level A), 32ch (at Level B) Each 3G-SDI individual audio
Audio Test Signals	400Hz, 1kHz, 3kHz, Sweep, Variable, -18dBFS, -20dBFS, MUTE
5. Functions	Gen Lock phase adjustment, Each 3G-SDI output phase adjustment, Video Level adjustment, Video Scroll, Video Bounce, Lip Sync signal output, Customer's original video output, Logo/Marker superimpose
6. Remote	Contact (D-sub 15pin), LAN(10/100Base-T), RS232C(D-sub 9pin)
7. Alarm	Contact (D-sub 9pin)
8. Power Supply, Dimensions, Weight	AC100~240V 50/60Hz 150VA max 426(W) x 88(H) x 540(D) mm approx 12kg

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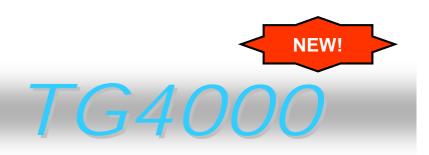
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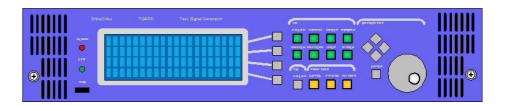
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*Specifications are subject to be changed without notice TG4000 Ver. 1.5 27/3/2014



4K TEST SIGNAL GENERATOR



- Simultaneous Outputs for Three Independent
 Test Signals
- Sync Output (BB/Tri-SYNC/AUDIO WC)
- Gen Lock Function (BB/Tri-SYNC/CW 10MHz)
- Video Scroll Function

ShibaSoku Co.,Ltd.

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Summary

TG4000 is a 4K(3840x2160p and 4096x2160p)) Test Signal Generator. 4K Signal is composed of four(4) 3G-SDI(1920x1080p and 2048x1080p) output signals.

It is the best equipment for evaluation of 4K systems including codec and 4K professional equipments using natural picture output, video scrolling, video level adjustment and colorimetric changing functions.

Also it is the best equipment for checking in broadcast operation using independent three 4K signal outputs, Sync output, Gen Lock function and Logo/Marker superimpose functions.

Features

- 4K(3840x2160p and 4096x2160p)) Signal is composed of four(4) 3G-SDI output signals.
- Main output for several test signals, exclusive Color Bar output and exclusive Black output are equipped independently.
- Sync Signal (BB/Tri-SYNC/Audio word clock) can be output. (option)
- Square division and 2-sample interleave division sample structures are selectable.
- Gen Lock function (BB/Tri-SYNC/CW 10MHz) is equipped.
- Video scroll is selectable vertically, horizontally and diagonally with required/selectable speed.
- · Natural picture can be output, also the pictures made by customers can be output.
- 4K Mono-scope Chart and Natural picture are installed as standard.
- · Video level variable function is equipped.
- Logo (BMP, Floating object) and Marker can be superimposed on the video signals.
- Embedded audio corresponds to the sampling frequency of 48KHz, and audio output channel corresponds to 16 ch (at level A) and 32 ch (at level B).
- · Lip Sync check signal can be output combined with video bounce function. (It's useful)
- Colorimetric for Rec. ITU-R BT.2020/BT.709 is selectable.
- Alarm (Contact) and Remote (Contact, LAN, RS232C) are equipped as standard.
- · Height is 2U size and mountable into 19 inch rack.
- · Examples for Test signal



Ontion

- · Gen Lock Option(BB/Tri-SYNC/Audio word clock) has 10 BNC Outputs with phase adjustable function
- Rack mount kit

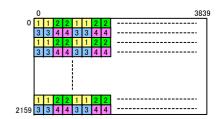
TG4000 4K Test Signal Generator

4K Signal Output Sample Structure

a) Square division



b) 2-sample interleave division

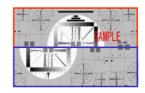


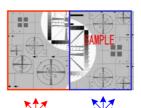
Function

a) Video Scroll

Each Division is switchable between on and off, and different direction scrolls can be done independently in upper/down, left/right portions. (at Square division)



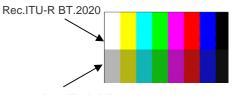






b) Colorimetric

Different colorimetric can be displayed on the upper and down portion of the output video



Rec.ITU-R BT.709

c) Logo/Marker superimpose

