

White Field.

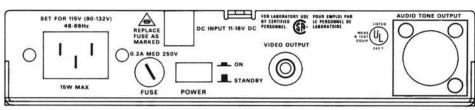
CHARACTERISTICS

TEST SIGNAL GENERATOR

Luminance Amplitude Accuracy	±1%
Chrominance to Luminance Gain	±2%
Chrominance to Luminance Delay	±15 ns
Blanking Width	10.9 μs
Output Impedance	75 Ω

TEST SIGNALS

SMPTE Color Bars		
Convergence Pattern	14 lines per field, 17 lines per horizontal	
Multiburst Reference Bar and Packet Amplitude Burst Frequencies	60 IRE 0.5, 1.0, 2.0, 3.0, 3.58, and 4.2 MHz	
Pulse & Bar and Modulated Pulse Bar Amplitude 2T Pulse HAD 12.5T Pulse HAD	100 IRE 250 ns 1.56 μs	
5 Step Staircase	100 IRE	
Modulated 5 Step Chrominance Amplitude Diff Gain Diff Phase	40 IRE ≤1% ≤0.6°	
White Field	100 IRE	
Black Burst Setup	7.5 IRE	



TSG-100 Rear Panel.

INTERNAL REFERENCE

Table
3.579545 MHz
See ADMICS TO PROPERTY AND CONTRACTOR OF SECTION
Within 10 Hz from 5° to 35°C.

AUDIO TONE GENERATOR

Frequency	1 KHz	
Amplitude	0 to +8 dBu into 150Ω, 600 Ω, or a high impedance load	
Distortion	≤0.5% THD + noise	

POWER SOURCE

Mains Voltage Range Frequency Range	90 to 132 Vac 48 to 66 Hz	
DC Power Operation	11 to 16 Vdc	
Power Consumption	10 W typical	

PHYSICAL CHARACTERISTICS

Dimensions	mm	in
Height Width	43 206	1.71 8.1
Length Weight	305 kg	12.0 Ib
Net	1.48	3.25

ENVIRONMENTAL

LIVINORIVILIVIAL		
Temperature		
Operating	0° to 50°C	
Non-Operating	-40° to 65°C	

ORDERING INFORMATION

When ordering, please use the nomenclature given here:

TSG-100 NTSC Television Generator

OPTIONAL ACCESSORIES Mounting Kits — Hardware for mounting in a

1700F02 or 1700F05. Order TVGF10.
Hardware for mounting in a 1.75 inch high, 19.0 inch wide rack space. Order TVGF11.
Adapter for mounting to the bottom of a 1700F02 carrying case. Order TVFG12.
For rack mount photos, see page 106.

o 50℃ o° to 65℃

SgLabs

Generations @sglabs.it

Simple yet functional test signal complement

8 bit digital generation

Conforms to RS-170A timing specifications

1 kHz audio tone

H or V rate scope trigger signal

DC power operation

Compact and lightweight

The TSG-100 is a low cost NTSC Test Signal Generator ideally suited for the maintenance and alignment of video equipment in most television environments.

The 8 bit digital test signal generator ensures conformance to RS-170A timing specifications while providing good, long-term signal stability.

TSG-100 test signal includes:

- · SMPTE color bars
- Convergence pattern
- Multiburst
- Pulse & bar with window and modulated pulse
- 5 step staircase
- Modulated 5 step
- · White field
- Black burst

Front and rear panel test signal outputs provide convenient access to test signals for both rack mount and service bench applications.

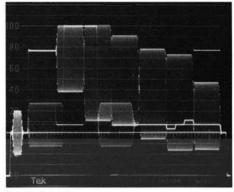
A front panel scope trigger output is provided for service applications. Horizontal or vertical repetition rate is front panel selectable.

The TSG-100 includes a 1 kHz audio tone generator for continuity and level checks. Level of the tone is user adjustable over a 0 to +8 dBu range. The level 0 dBu is equivalent to 0 dBm in a 600 Ω environment. Output is on a rear panel XLR connector.

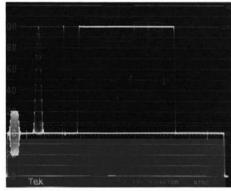
The TSG-100 is housed in a compact, rugged mechanical package and, with DC power operation, is suitable for studio, mobile unit, and field portable applications.



TSG-100 Test Signal Generator.



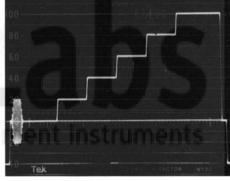
SMPTE Color Bars



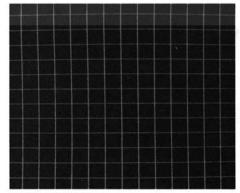
Pulse and Bar with Window and Modulated Pulse.



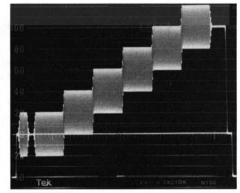
Multiburst.



5 Step Staircase.



Convergence Pattern.



Modulated 5 Step.