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Data Sheet

July 30, 2026

TEKTRONIX

Tektronix TSG95 PAL / NTSC Signal Generator

Tektronix TSG95 PAL / NTSC Signal Generator The Tektronix TSG95 is a handheld PAL/NTSC signal generator designed for installation, maintenance, and field verification of analog composite video systems. Public references describe it as a portable video test source with multiple PAL, NTSC, and NTSC Japan test signals, ID insertion capability, selectable audio tones, and battery or AC operation. The TSG95 is intended for analog composite video system installation, maintenance, and troubleshooting. Typical uses include verifying microwave links, supporting studio and outside-broadcast installation, checking baseband video parameters, transmitter automatic correction systems, and general field-service signal generation. The Tektronix TSG95 is a handheld PAL/NTSC signal generator designed for installation, maintenance, and field verification of analog composite video systems. Public references describe it as a portable video test source with multiple PAL, NTSC, and NTSC Japan test signals, ID insertion capability, selectable audio tones, and battery or AC operation. The TSG95 is intended for analog composite video system installation, maintenance, and troubleshooting. Typical uses include verifying microwave links, supporting studio and outside-broadcast installation, checking baseband video parameters, transmitter automatic correction systems, and general field-service signal generation.



Tektronix TSG95 PAL / NTSC Signal Generator

MODEL

Tektronix TSG95

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

TSG95

LISTING

<https://aumictechlabs.com/products/tsg95-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Tektronix TSG95 is a portable, handheld signal generator engineered for installation, maintenance, and troubleshooting of analog composite video systems. It supports PAL, NTSC, and NTSC Japan standards, delivering a comprehensive library of test signals, audio tones, and character identification for broadcast, cable, production, and transmission environments.

Technical Specifications

Video Standards PAL, NTSC, NTSC Japan

Video Test Signals

PAL Mode: 20 user-selectable signals including 75%/100% Color Bars, Color Bars over Red, monochrome fields (Green, Blue, Red), flat fields (100%, 50%, 0%), Multiburst, line sweep, bounce, grey scale, PLUGE, convergence, Matrix patterns (CCIR 17/18/330/331, Sin(x)/x, 15 kHz Square Wave, ramps, UK ITS variants), field square wave, and safe area

NTSC Mode: 16 user-selectable signals including SMPTE Color Bars, 75% Color Bars, Multiburst, NTC7 Composite/Combination, FCC Composite, grey scale, red field, field square wave, 50 IRE flat field, 0 IRE black burst, Sin(x)/x, convergence, Matrix, and safe area

Japan NTSC Mode: 21 user-selectable signals including SMPTE Bars, 75% Color Bars, SNG Color Bars, convergence, safe title/area, and red field

Vertical Interval Test Signals (VITS) insertable on Flat Field and Matrix signals

User-configurable signal set supporting up to 26 signals per standard

Video Signal Performance

Luminance amplitude accuracy: $\pm 1\%$ of 700 mV or $\pm 1\%$ of 714.3 mV (100 ± 1 IRE)

Chrominance-to-luminance gain: $\pm 2\%$ of 700 mV or $\pm 2\%$ of 714.3 mV (100 ± 2 IRE)

Subcarrier stability: PAL 4.43361875 MHz ± 10 Hz; NTSC 3.579545 MHz ± 10 Hz

Chrominance-to-luminance delay: ≤ 10 ns or ≤ 15 ns

SCH phase: $0^\circ \pm 5^\circ$

Frequency response: Flat within $\pm 2\%$ to 4.2 MHz (PAL) or $\pm 2\%$ to 4.8 MHz (NTSC)

Field tilt: $\leq 0.5\%$; Line tilt: $\leq 0.5\%$

Differential gain: $\leq 1\%$; Differential phase: $\leq 1^\circ$

2T pulse K-factor: $\leq 0.5\%$

Audio Test Signals 13 selectable tone frequencies from 50 Hz to 20 kHz

Selectable audio sweep

Three tone levels: 0 dBu, +4 dBu, +8 dBu

Audio click sequence for left/right channel identification

Character ID Up to eight storable messages, each with two 16-character lines

Key Features

- Portable handheld form factor
- Multi-standard video support (PAL/NTSC/NTSC Japan)
- Extensive pre-loaded test signal library with user configuration
- VITS insertion capability
- Integrated audio test tone generation
- On-screen character messaging

Typical Applications

- Broadcast system installation and commissioning
- Cable network maintenance
- Video production facility troubleshooting
- Transmission line verification
- Equipment alignment and performance verification

Features & description

From manufacturer datasheet

Features

- Handheld PAL and NTSC signal generator
- Supports PAL, NTSC, and NTSC Japan formats
- 20 PAL test signals
- 20 NTSC test signals
- 21 NTSC Japan test signals
- User signal set support with selectable custom signal group
- Character ID insertion with stored messages
- User presets for complete front-panel configurations
- Analog stereo audio generation
- Battery or AC adapter operation

TSG95 Characteristics / Specifications

PARAMETER	VALUE
Model	TSG95
Instrument Type	Handheld PAL/NTSC Signal Generator
Video Standards	PAL, NTSC, NTSC Japan
PAL Test Signals	20
NTSC Test Signals	20
NTSC Japan Test Signals	21
User Signal Set Capacity	Up to 26 user-selectable signals
Character ID Storage	Up to 8 messages
Character ID Format	Two 16-character lines per message
Character ID Cycling	Up to 4 messages in continuous loop
Character ID Positioning	Anywhere within safe-title area
Audio Tone Frequencies	13 tones from 50 Hz to 20 kHz
Audio Sweep	Supported
Audio Levels	-10 dBu, 0 dBu, +4 dBu, +8 dBu
Audio Click Sequence	Supported
Power Options	AC adapter, eight AA batteries, optional 9.6 V NiCad battery pack
Battery Recharge Support	AC adapter charging for NiCad battery pack Functional Highlights The TSG95 provides video pattern generation, ID insertion, user presets, and analog stereo audio generation inaportable format. Public references also note support for FCC baseband video parameter testing in cable television systems and performance verification tasks in the field.

TSG95 Specifications

PARAMETER	VALUE
Tektronix TSG95 PAL / NTSC Signal Generator	Overview
Technical Specifications	Model: TSG95
Notes	This manual OEM source was compiled from public TSG95 datasheet summaries, product descriptions, and Tektronix support references.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

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Battery Recharge Support	AC adapter charging for NiCad battery pack

Functional Highlights

The TSG95 provides video pattern generation, ID insertion, user presets, and analog stereo audio generation in a portable format. Public references also note support for FCC baseband video parameter testing in cable television systems and performance verification tasks in the field.

Operational Notes

Video standard selection is handled through the configuration menu and supports switching between PAL, NTSC, NTSC Japan, and user-defined signal sets. The unit is intended for mobile test use and is often described as a toolbox or workbench companion for TV engineers.

Notes

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.