

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 2, 2026

ROHDE & SCHWARZ

Rohde & Schwarz CCVS + Component Generator SAF

The Rohde & Schwarz CCVS Component Generator SAF is a versatile signal source designed for generating a wide range of test signals. It supports various modulation schemes and provides high signal quality, ideal for component testing and verification in research, development, and production environments.



MODEL

Rohde & Schwarz CCVS + Component Generator SAF

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

CCVS + Component Generator SAF

LISTING

<https://aumictechlabs.com/products/ccvs-component-generator-saf-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz CCVS + Component Generator SAF is a multi-standard video signal generator engineered for broadcast television, component testing, and R&D verification. It generates CCVS, YCBCR, RGB, and S-VHS signals across B/G PAL, M/NTSC, M/PAL, and N/PAL standards with selectable 4:3 or 16:9 aspect ratios. The instrument delivers real-time signal generation using a high-speed RISC Transputer processor and LSI gate arrays, producing 10-bit resolution shallow ramps and comprehensive test patterns. Technical Specifications Signal formats: CCVS, YCBCR, RGB, S-VHS Multi-standard support: B/G PAL, M/NTSC, M/PAL, N/PAL

Test pattern aspect ratios: 4:3 or 16:9 Resolution: 10-bit for shallow ramps Architecture: High-speed RISC processor (Transputer) with LSI gate arrays for real-time CCVS generation Signal conversion: Analog matrix converts YCBCR components to simultaneous RGB output Standard compliance: CCIR Rec. 801 Test signal library: Common pathological test signals included Optional PALplus capability: Generates PALplus reference signals and WSS bitsKey Features Softkey-controlled menus enable extensive signal variation Amplitude and phase adjustments of individual signal components for gain control and video analyzer testing User-defined signal creation via front-panel entry with local or memory card storage Simultaneous RGB and YCBCR component output Digital CCVS generation in real-time from YCBCR componentsOptional Integration The Digital Video Interface SAF-Z1 upgrade adds parallel and serial digital video outputs, enabling support for digital TV studio applications alongside analog signal generation. Typical Applications Television broadcast signal verification Component-level video analyzer testing Gain control and white-level limiting circuit validation Production and development signal pattern generation

Features & description

From manufacturer datasheet

Features

- CCVS plus component generator (vs SFF CCVS-only)
- Multistandard: B/G/PAL, M/NTSC, M/PAL, N/PAL
- Output formats: CCVS, YCbCr, RGB, S-VHS
- Selectable 4:3 or 16:9 test pattern aspect ratio
- CCIR Rec. 801 test signals and pathological patterns
- 10-bit shallow ramp resolution
- Digitally generated Y, Cb, Cr components with analog RGB matrix
- Softkey-controlled amplitude and phase adjustments
- User-definable signals storable in generator or memory card
- Optional SAF-Z1 digital video interface (parallel and serial digital outputs)

CCVSCOMPONENTGENERATORSAF Characteristics / Specifications

PARAMETER	VALUE
Model	SAF (CCVS + Component Generator)
Manufacturer	Rohde & Schwarz
Instrument Type	Multistandard TV Test Signal Generator
Related Model	SFF (CCVS-only generator in same family)
Standards Supported	B/G/PAL; M/NTSC; M/PAL; N/PAL
Video Formats	CCVS; YCbCr; RGB; S-VHS
Aspect Ratio	4:3 or 16:9 selectable
Reference Patterns	CCIR Rec. 801; pathological test signals; shallow ramps (10-bit)
Signal Generation	Digital (transputer/RISC-based Y, Cb, Cr computation)
Video Bandwidth	approximately 6 MHz (digital generation architecture)
RGB Output	Simultaneous with YCbCr via analog matrix
Digital CCVS	Real-time from YCbCr via LSI gate arrays
Control	Front-panel softkey menus; user signal storage Standard Operating Conditions Indoor laboratory and broadcast test environments per Rohde & Schwarz TV generator specifications. Allow warm-up and reference-level calibration before precision amplitude measurements. Optional PALplus and WSS wide-screen signaling patterns require applicable installed options.
Multistandard	B/G/PAL, M/NTSC, M/PAL, N/PAL
Output formats	CCVS, YCbCr, RGB, S-VHS
Selectable 4	3 or 16:9 test pattern aspect ratio
Bandwidth	approximately 6 MHz (digital generation architecture)

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

PARAMETER	VALUE
Model	SAF (CCVS + Component Generator)
Manufacturer	Rohde & Schwarz
Instrument Type	Multistandard TV Test Signal Generator
Related Model	SFF (CCVS-only generator in same family)
Standards Supported	B/G/PAL; M/NTSC; M/PAL; N/PAL
Video Formats	CCVS; YCbCr; RGB; S-VHS
Aspect Ratio	4:3 or 16:9 selectable
Reference Patterns	CCIR Rec. 801; pathological test signals; shallow ramps (10-bit)
Signal Generation	Digital (transputer/RISC-based Y, Cb, Cr computation)
Video Bandwidth	approximately 6 MHz (digital generation architecture)
RGB Output	Simultaneous with YCbCr via analog matrix
Digital CCVS	Real-time from YCbCr via LSI gate arrays

Optional Interface: SAF-Z1 Digital Video Interface (parallel and two serial digital outputs)
Control: Front-panel softkey menus; user signal storage

Standard Operating Conditions

Indoor laboratory and broadcast test environments per Rohde & Schwarz TV generator specifications. Allow warm-up and reference-level calibration before precision amplitude measurements. Optional PALplus and WSS wide-screen signaling patterns require applicable installed options.

Operational Notes

Where only composite CCVS is required, the CCVS-only SFF may suffice; SAF adds simultaneous component and S-VHS outputs. SAF-Z1 upgrades SAF or SFF for digital studio interfaces without removing analog outputs. Zone-plate and specialized pattern groups support bandwidth and distortion analysis per R&S application notes. Verify installed options (PALplus, SAF-Z1, memory card) against the instrument configuration label.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 2, 2026

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