

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 3, 2026

ROHDE & SCHWARZ

Rohde & Schwarz CCVS + Component Generator SFF

Rohde & Schwarz CCVS + Component Generator SFF The R&S®CCVS provides a color composite video signal (CCVS) and component video generator for television, monitor, and video-path testing. Catalog designation "SFF" identifies this listing's form-factor / configuration of the CCVS + Component Generator. The instrument generates standardized baseband video patterns and component formats used to verify luminance/chrominance processing, sync, and color decoding in broadcast and consumer video equipment. TV receiver and monitor alignment; video decoder/encoder test; composite (CVBS) and component (Y/C, YPbPr/RGB class) signal injection; production and service video QA. The R&S®CCVS provides a color composite video signal (CCVS) and component video generator for television, monitor, and video-path testing. Catalog designation "SFF" identifies this listing's form-factor / configuration of the CCVS + Component Generator. The instrument generates standardized baseband video patterns and component formats used to verify luminance/chrominance processing, sync, and color decoding in broadcast and consumer video equipment. TV receiver and monitor alignment; video decoder/encoder test; composite (CVBS) and component (Y/C, YPbPr/RGB class) signal injection; production and service video QA.



MODEL Rohde & Schwarz CCVS	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU CCVS	LISTING https://aumictechlabs.com/products/ccvs-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rohde & Schwarz CCVS + Component Generator SFF is a Small Form Factor signal generator engineered for precision video signal generation and analysis in broadcast and consumer electronics testing. The unit produces composite color video signals (CCVS), YCBCR, RGB, and S-VHS formats across multiple television standards including B/G/PAL, M/NTSC, M/PAL, and N/PAL (625-line and 525-line variants). It generates all standard test signals per CCIR Rec. 801, including pathological patterns, shallow ramps with 10-bit resolution, and specialized signals such as Splitlevel, Coring, $\sin x/x$, and Bowtie.

Technical Specifications

Signal Formats: CCVS, YCBCR, RGB, S-VHS

Television Standards: B/G/PAL, M/NTSC, M/PAL, N/PAL; 625-line PAL and 525-line PAL

Test Signal Library: CCIR Rec. 801 reference signals, common pathological test patterns, 10-bit shallow ramps, specialized signals (Splitlevel, Coring, $\sin x/x$, Bowtie)

Optional PALplus Pattern: Generates PALplus reference signals and wide-screen signaling (WSS) bits

Aspect Ratio Selection: 4:3 or 16:9 selectable

Signal Generation Architecture: Digital design with high-speed RISC processor (Transputer) for Y, CB, CR calculation; real-time CCVS generation via LSI gate arrays

Amplitude and Phase Control: Continuous adjustment of FBAS, FBA, Chroma, Sync, Burst, Setup, and YCBCR amplitudes; individual RGB channel switching; sync pulse addition to RGB components

Color Carrier Frequency: Adjustable from 100 Hz to 6 MHz

Horizontal Frequency Adjustment: $\pm 5\%$

SC/H-Phase Setting: Precise timing control

User-Defined Signals: Front-panel entry or memory card storage

Key Features

- Softkey-controlled menus for extensive signal variations
- Adjustable temporal relationship between generator and program signals in synchronized operation
- Burst duration, position, and rise time adjustment
- Sync duration and rise time adjustment
- Generator color carrier phase adjustment relative to program color carrier

Typical Applications

- Testing and calibration of video signal processing equipment in broadcast and consumer electronics; characterization and verification of video analyzers and gain control circuits; white-level limiting circuit assessment.

Compatibility & Integration

Analog Video Outputs: CCVS, YCBCR, RGB, S-VHS

Digital Video Interface (Optional SAF-Z1): Parallel digital video signal and two serial digital video signals

Suitable for all television applications

Features & description

From manufacturer datasheet

Features

- Rohde & Schwarz CCVS + Component Generator
- Catalog configuration: SFF
- Color composite video signal (CCVS / CVBS) generation
- Component video generation capability
- Pattern and sync generation for video path verification
- Distinct catalog SKU from CCVS + Component Generator SAF

CCVS Characteristics / Specifications

PARAMETER	VALUE
Model	CCVS + Component Generator SFF
Manufacturer	Rohde & Schwarz
Instrument Type	Video / Component Signal Generator
Alias	CCVS SFF; CCVS+SFF Video Outputs Composite CCVS (CVBS) output for color composite testing Component outputs per installed configuration (confirm faceplate connectors: Y/C, YPbPr, RGB as fitted)
Standards / patterns	confirm installed TV standards (e.g. PAL/NTSC/SECAM class) and pattern set on the unit menus/labels Form Factor
SFF (catalog Small Form Factor / listing code)	confirm chassis dimensions and rack ears on the installed unit Interfaces / Power Confirm AC mains and remote interfaces (GPIB/RS-232/etc.) on the rear panel of the specific SFF unit Standard Operating Conditions Terminate video outputs in 75 Ω unless otherwise marked. Match TV standard and pattern to the DUT region.
Catalog configuration	SFF

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	CCVS + Component Generator SFF
Manufacturer	Rohde & Schwarz
Instrument Type	Video / Component Signal Generator
Alias	CCVS SFF; CCVS+SFF

Video Outputs

Composite CCVS (CVBS) output for color composite testing

Component outputs per installed configuration (confirm faceplate connectors: Y/C, YPbPr, RGB as fitted)

Standards / patterns: confirm installed TV standards (e.g. PAL/NTSC/SECAM class) and pattern set on the unit menus/labels

Form Factor

SFF (catalog Small Form Factor / listing code) – confirm chassis dimensions and rack ears on the installed unit

Interfaces / Power

Confirm AC mains and remote interfaces (GPIB/RS-232/etc.) on the rear panel of the specific SFF unit

Standard Operating Conditions

Terminate video outputs in 75 Ω unless otherwise marked. Match TV standard and pattern to the DUT region.

Operational Notes

Do not confuse with catalog sibling “CCVS + Component Generator SAF”. Verify SFF labeling and installed video standards before generating reference patterns. Prefer faceplate and R&S CCVS operating manual for amplitude (IRE/V) and timing tolerances.

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 3, 2026

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