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Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz DVG MPEG2 Measurement Generator

Rohde & Schwarz DVG MPEG-2 Measurement Generator The R&S DVG is a compact MPEG-2 transport-stream measurement generator for digital television. In an endless loop it outputs multiplexed MPEG-2 transport streams of video, audio, and data to ISO/IEC 13818. Data rate including null packets is 0.6 Mbit/s to 160 Mbit/s in 1 Hz steps. User-settable PIDs make it a substitute source. A built-in PCR jitter generator (0 ms to 10 ms in 0.1 μ s steps) stresses decoder PLLs. Outputs include SPI LVDS (DVB-A010) and ASI (270 Mbit/s class; rear ASI replaced by BNC with DV-B310). Form is about 300 × 140 × 400 mm, about 5 kg. The R&S DVG is a compact MPEG-2 transport-stream measurement generator for digital television. In an endless loop it outputs multiplexed MPEG-2 transport streams of video, audio, and data to ISO/IEC 13818. Data rate including null packets is 0.6 Mbit/s to 160 Mbit/s in 1 Hz steps. User-settable PIDs make it a substitute source. A built-in PCR jitter generator (0 ms to 10 ms in 0.1 μ s steps) stresses decoder PLLs. Outputs include SPI LVDS (DVB-A010) and ASI (270 Mbit/s class; rear ASI replaced by BNC with DV-B310). Form is about 300 × 140 × 400 mm, about 5 kg. Development, production, and service of MPEG-2 / DVB transmission links and decoders



MODEL

Rohde & Schwarz DVG

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DVG

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz DVG MPEG2 Measurement Generator produces MPEG2 transport streams for testing digital television systems, modulators, remultiplexers, and decoders throughout development, production, quality assurance, and field service. It functions as a substitution signal source in cable headends and broadcast distribution networks, enabling decoder alignment and TV receiver validation when live program feeds are unavailable.

Technical Specifications

MPEG2 transport stream generation compliant with ATSC and DVB standards
Adjustable output data rate to match transmission link and device-under-test specifications
Programmable packet identifiers (PIDs) for flexible elementary stream routing
Continuous time-code updating (PCR, PTS, DTS, TDT, STT) during playback - no stream restart required
Built-in Program Clock Reference (PCR) jitter generator for decoder PLL stress testing
RAM-based signal storage enabling wear-free, indefinite repetition
External clock synchronization input for generator output alignment
RS232 remote control interface
PCMCIA interface for transport stream exchange via removable storage
Optional SMPTE 310 interface via DV-B310 module
Dimensions: 434 mm × 43 mm × 460 mm
Weight: 5 kg
Model: DVG (Type 2068.8600.03)

Key Features

Large library of pre-loaded MPEG2 sequences: video, audio, and data combinations with moving pictures and stationary test patterns
Support for Rohde & Schwarz proprietary GTS format for user-defined transport streams
Mandatory ATSC/DVB system and service tables included
Optional Stream Combiner™ (ASC) software allows elementary stream configuration, custom stream combination, and remote instrument control via parallel printer port or USB interface dongle

Typical Applications

DTV modulator and decoder validation
Transport stream remultiplexing equipment testing
Cable headend program substitution and backup
Broadcast receiver alignment and performance measurement
Production and quality control test signal generation

Compatibility & Integration

The DVG integrates into test benches via RS232 control and PCMCIA media interchange. Clock input accommodates master clock signals from external modulators or distribution equipment. Stream Combiner software extends functionality for custom multiplex configurations and multi-instrument automation.

DVG Characteristics / Specifications

PARAMETER	VALUE
Model	DVG
Manufacturer	Rohde & Schwarz
Instrument Type	MPEG-2 measurement generator
Alias	R&S DVG; DVG MPEG-2
Transport Stream Standard	ISO/IEC 13818
Data Rate Including Null Packets	0.6 Mbit/s to 160 Mbit/s
Data Rate Step	1 Hz
Video Audio Content Rate	up to 18 Mbit/s
Video Audio Data Quantity	up to 228 Mbit
Packet Length ATSC	188/208 byte settable
Packet Length DVB	188/204 byte settable
Sequence Length ATSC	typically 960 video frames (32.032 s)
Sequence Length DVB	typically 192 video frames (7.68 s)
Data Rate Error	plus/minus 3 ppm (1 year calibration); additional plus/minus 0.5 ppm per year without calibration
Data Jitter ASI	typically less than 0.1 UIpp (10 Hz to 8 MHz)
Data Jitter SPI	typically less than 0.02 UIpp (10 Hz to 200 kHz)
Data Jitter General	typically less than 0.05 UIpp (10 Hz to 100 kHz)
SPI Output	MPEG-2 TS synchronous parallel LVDS per DVB-A010
ASI Output	asynchronous serial, BNC front and rear (rear requires DV-B310 to replace ASI)
PCR Jitter Range	0 ms to 10 ms
PCR Jitter Step	0.1 us
PID Assignment	user-defined for elementary streams
Front Control	6 keys and two-line LCD
PC Interfaces	keyboard, VGA, 2x RS-232-C, parallel printer, PCMCIA type I/II

PARAMETER	VALUE
Remote Control	RS-232-C
Dimensions	300 mm x 140 mm x 400 mm
Weight	approx 5.0 kg
ASI Bit Rate Class	270 Mbit/s physical layer
Form Factor	compact benchtop digital TV generator Notes Specs from R&S DVG MPEG-2 Measurement Generator technical data. Confirm ASI versus DV-B310 rear BNC, installed stream library, and PCR jitter firmware. Do not confuse with later DVRG / SFQ MPEG generators.
Data Rate	including null packets is 0.6 Mbit/s to 160 Mbit/s in 1 Hz steps. User-settable PIDs make it a substitute source. A built-in PCR jitter generator (0 ms to 10 ms in 0.1 us steps) stresses decoder PLLs. Outputs include SPI LVDS (DVB-A010) and ASI (270 Mb

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	
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SPI Output	MPEG-2 TS synchronous parallel LVDS per DVB-A010

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PID Assignment	user-defined for elementary streams
Front Control	6 keys and two-line LCD
PC Interfaces	keyboard, VGA, 2x RS-232-C, parallel printer, PCMCIA type I/II

Specifications

PARAMETER	VALUE
Remote Control	RS-232-C
Dimensions	300 mm x 140 mm x 400 mm
Weight	approx 5.0 kg

ASI Bit Rate Class: 270 Mbit/s physical layer

Option DV B310: rear BNC replaces rear ASI

Form Factor: compact benchtop digital TV generator

Notes

Specs from R&S DVG MPEG-2 Measurement Generator technical data. Confirm ASI versus DV-B310 rear BNC, installed stream library, and PCR jitter firmware. Do not confuse with later DVRG / SFQ MPEG generators.

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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NIST-traceable calibration · SAM registered ·
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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.