Analogue and Digital TV Generator

- Test Signal generation in MPEG-2, SPI or ASI format
- The Test Signal contains valid audio and video programs
- External analogue and digital audio / video inputs
- Moving MPEG-2 video pattern generation
- MPEG logos
- RS-232 remote operation
- Multi-standard and multi-system analogue TV signals

The **GV-998** is an **analogue** and **digital TV signal generator**. In analogue mode, it's a very flexible multi-standard, multi-system instrument with the same performance as the **GV-898+**. In digital mode, thanks to its **TS outputs** (Transport Stream) in **MPEG-2** format, is perfect for manufacturing, verifying and maintaining all kinds of digital TV receivers.

The instrument's output signal meets the DVB (**DVB-PI**) specifications and can be applied to **QAM**, **QPSK** and **COFDM** digital modulators.

The system has **external audio / video analogue inputs**. These are converted to CCIR 656 and I2S format and multiplexed with standard patterns; they are then applied to the MPEG-2 encoder to generate the TS output. The instrument is microprocessor controlled, handling both the user interface and internal circuitry. Among other features, it's capable of altering the transmitted data stream format and can be controlled with a personal computer.

37 Charts

Programmable TS bitrate

4:3 and 16:9 formats

Electronic circle for all patterns

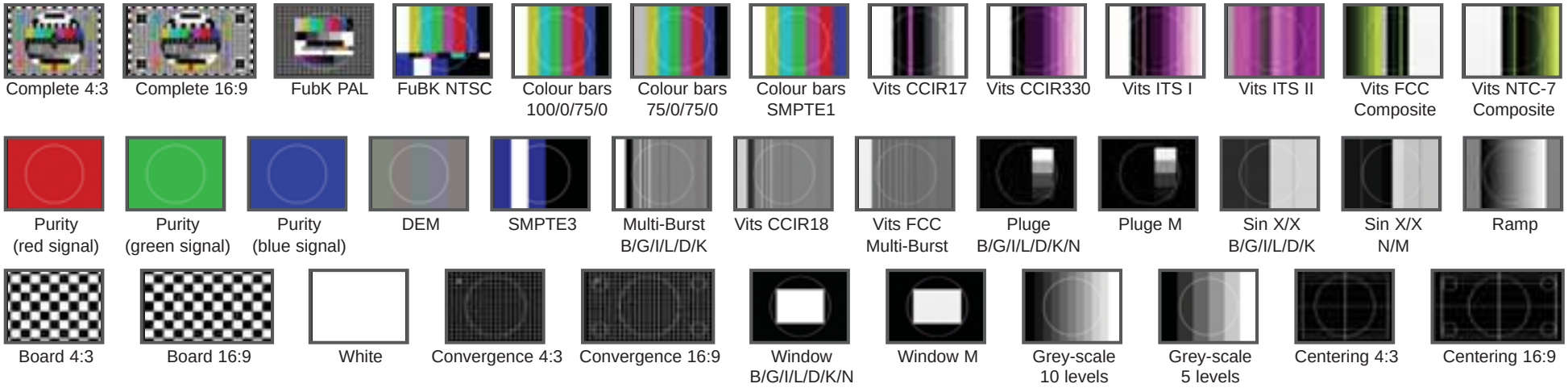
MPEG-2 logos

Outputs

RF
YPbPr
TS MPEG-2
RGB
S-VHS
SCART
Sync
Blackburst
Composite video

With MPEG-2 TS Output

Pattern charts



SPECIFICATIONS	GV - 998
System & Standard	PAL B/G/D/K/I/M/N, SECAM B/G/D/K/L, NTSC M
Video Carrier	
Resolution	50 kHz
Tuning	By channels or by frequency (CCIR, STDL, OIRT, FCC)
Pattern charts	37
Front panel outputs	
RF	
Output level	80 dBµV, attenuation up to 60 dB in 1 dB steps
Frequency range	35 to 900 MHz VSB modulated
MPEG-2	**SPI** / **ASI**
Outputs	TS parallel / TS serial ASI
Bitrate	VBR for MPEG; CBR for TS
Video	ISO/IEC 13818-2 MP@ML
Audio	ISO/IEC 11172-3 (MPEG audio) Layer 1/2 - 44.1 kHz / DVB-ASI EN/ISO/IEC 13818-1
Composite video	BNC connector, 1 Vpp voltage, 75 Ω impedance
Rear panel outputs	
Blackburst	75 Ω, negative polarity, BNC connector
RGB	75 Ω, 0.7 Vpp amplitude, BNC connector
YPbPr	0.7 Vpp amplitude, BNC connector
S-VHS	75 Ω, 1 Vpp amplitude (lum.) - 0.3 Vpp (chrom.)
Synchronisms	CS, horizontal pulse, vertical pulse
SCART	-

Teletext	Index page and 4 data pages in 4 different languages
Colour Logotypes	2 independent, positionable logos; analogical & MPEG
Audio	
Mono	AM-FM-NICAM modulation
Dual-Stereo Zweiton	B, G, D, K, M systems
Dual-Stereo NICAM	B, G, L, I, D, K systems
Inputs	Video & Audio
PDC (*Program Delivery Control*)	
Systems	PAL B/G/I/D/K, ON/OFF selectable
Content	Selectable START, STOP and PAUSE; time, country
VPS	
Systems	PAL B/G/D/K selectable ON/OFF
Content	Selectable START, STOP and PAUSE; time, country
WSS (*Wide Screen Signaling*)	
Systems	PAL B/G/I/D/K
Country	Eight combinations for 4:3,14:9 and 16:9 formats
Power supply	
Mains voltage	110-125-220-230/240 V AC ± 10%, 50-60 Hz
Consumption	40 W
Mechanical features	
Dimensions	W. 288 x H. 102 x D. 307 mm
Weight	5.8 kg.