



GV-798+, GV-898+

TV PATTERN GENERATORS



Multistandard and Multisystem TV Signal Generators **GV-798+** and **GV-898+**, have the widest selection of functions for an instrument of this type. 37 different patterns, including 16:9 format, are the base over which different configurations can be designed. Those settings can then stored in 32 memories for later immediate recall.

All the functions can be selected on three different menus presented on a backlit graphic LCD display.

The instrument includes the possibility to program two different colour logotypes that can be moved. It does also include a clock and possibility to display different prestored messages.

All common interface connectors such as S-VHS, RGB, SCART.... are available on the rear panel. The RS-232 interface is specially useful being bidirectional to control the instrument and for data exchange.

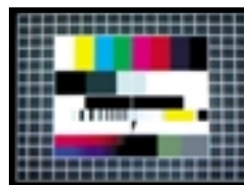
37 PATTERNS TO SATISFY ANY TEST NEEDS



Complete pattern 4:3



Complete pattern 16:9



FuBk pattern ,PAL system



Colour bars 100/0/75/0



VITS CCIR 17, B/G/L/D/K



VITS CCIR 330 B/G/L/D/K



Purity: red



Purity: green



Purity: blue



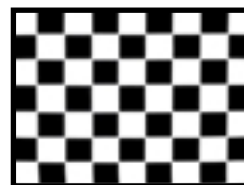
Pluge, B/G/L/D/K



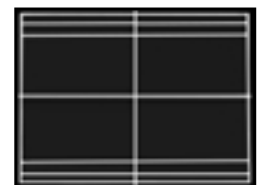
Sin X/X, B/G/L/D/K



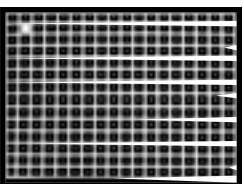
Ramp



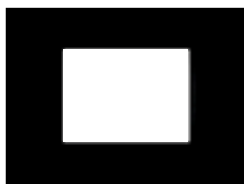
Checker board, 4:3



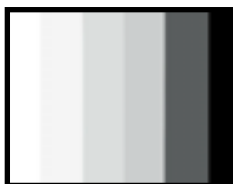
Centred



Convergence, 4:3



Window



Grey scale, 5 levels



Grey scale, 10 levels



Multi-Burst, B/G/L/D/K



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TV PATTERN GENERATORS

VIDEO & AUDIO CONFIGURATION

SYNTHETISED RF OUTPUT

The tuning can be through frequency or channel according to the selected standard (CCIR, STDL, OIRT or FCC).

OUTPUT LEVEL

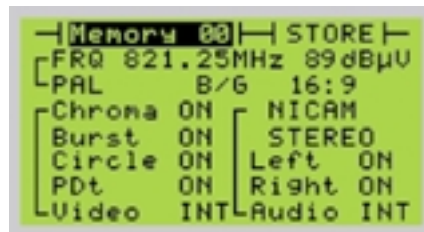
The output RF signal level is adjustable in 1 dB steps. Maximum attenuation being 60 dB.

MULTISTANDAR

Systems available are: PAL (B,G,I,D,K), NTSC (M) and SECAM (L,D,K). Others are available upon request.

32 CONFIGURABLE MEMORIES

They allow to automatic selection of the prestored configurations.



FORMAT SELECTION

The format can be selected 4:3 or 16:9

SOUND MODULATION

Sound modulation can be selected among MONO, ZWEITON (B,G,D,K,M) and NICAM (B,G,I,L). The modulated signal can be internal or external (except NICAM) and any of the channels (L or R) can be removed. In the stereo modulations, the second carrier can be stereo or dual.

TELETEXT, VCR SYNCHRONISATION SIGNALS (VPS AND PDC), CLOCK AND INTERLACED CONFIGURATION

TELETEXT

It contains an index page and four data pages in 4 languages (English, Spanish, French, German). Includes Clock Cracker.

VCR SYNCHRONISATION SIGNALS

The VPS (Video Program Service) and PDC (Program Delivery Control) signals are information delivered by broadcasters during the transmission of the program to synchronise the turn on and off on compatible videos.



CLOCK

When Clock is turned on, this information appears at the on the right hand lower corner on all patterns.

INTERLACED

This turns on and off the interlacing.

WSS (Wide screen Signal) This signal actuates on 16:9 receivers incorporating this feature. It is possible to generate eight

different combinations for the 4:3, 14:9 and 16:9 formats.

SYNCHRONISMS, LOGOTYPES, EUROCONNECTOR-SCART AND TEST SIGNALS (VITS) CONFIGURATION

SYNCHRONISM SELECTION

It is possible to select the polarity of the horizontal and vertical synchronism independently. It is also possible to activate the synchronism in the G output.

RGB/COMPONENTS SELECTION

Possibility of selecting as output RGB or Y/C, Pb, Pr components.



LOGOTYPES GENERATOR

It is possible to insert 2 colour logotypes of variable sizes on any of the test patterns. They can be moved to different positions within the pattern.



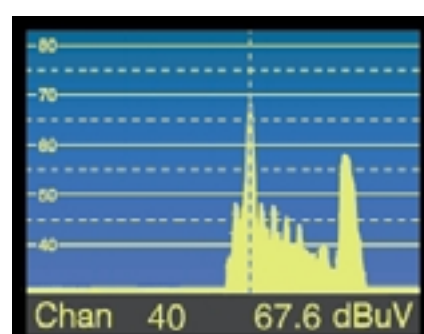
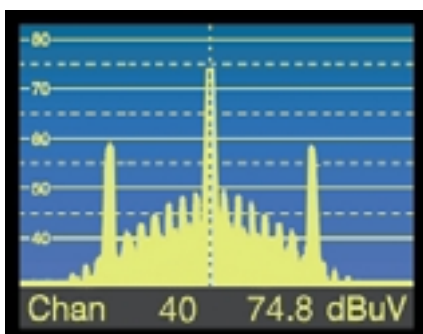
EUROCONNECTOR CONTROL

The FSTBK (Fast Blanking) signal activates the RGB inputs on television sets. The SWITCH signal activates audio and video on the Euroconnector.

TEST SIGNALS (VITS)

This function allows the activation of test signals for CCIR, UK and FCC standards.

VESTIGIAL SIDE BAND MODULATOR



Both TV Generator, the **GV-798+** and the **GV-898+**, offer the same features regarding test patterns and possible configurations. The difference is in the modulation type used. The **GV-798+** modulates the TV signal in **Double Side Band** and the **GV-898+** modulates in **Vestigial Side Band**. With **GV-898+** the simulation of the on-air transmitted signals is optimal since this is the system used in broadcast of analogue signals.

Both generators have 1 dB step adjustable output levels.



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SPECIFICATIONS	GV-798+/GV-898+		
Video Carrier Resolution Tuning Storage	50 kHz, 10 kHz (GV-898+) By channels or by frequency through the rotary selector. Channel tables: CCIR, STDL, OIRT and FCC. In any of the available 32 memories	Amplitude Connector Horizontal pulse output, H Impedance Amplitude Connector Vertical pulse output, V Impedance Amplitude Connector	2.5 Vpp BNC 75Ω 2.5 Vpp BNC 75Ω 2.5 Vpp BNC
RF Output Output level Attenuation Frequency range Video modulation Polarity Modulation index Impedance	80 dBμV Up to 60 dB in 1 dB steps 35 to 900 MHz, 35 to 850 MHz (GV-898+) AM-VSB (Vestigial Side Band) DSB (Double Side Band GV-898+) Negative except in SECAM L (positive) 85 % 75 Ω	Crominance PAL NTSC TV systems Subcarrier frequency Tolerance SECAM TV systems Subcarrier frequency Identification pulses Frame Amplitude D'R Amplitude D'R Line Amplitude D'R Amplitude D'R Subcarrier blanking	PAL B/G/D/K/I, NTSC M PAL B/G/D/K/I/M/N NTSC M (GV-898+) 4.433619 MHz PAL B/G/D/K/I 3.579545 MHz NTSC M 3.575611 MHz PAL M (GV-898+) 3.582056 MHz PAL N (GV-898+) < 4 ppm from 0 to 70° B/G/L/D/K F ₀ R= 4.406250 MHz F ₀ B= 4.250000 MHz 540 mV 500 mV 215 mV 167 mV 5.6 μs
Video Video input Impedance Voltage DC component Maximum DC component Polarity Coupling Video Output Impedance Voltage Polarity Coupling Black level Blackburst output Impedance Synchronisms polarity Level Connector RGB outputs Impedance Amplitude Synchronisms in G Connector Black level	75 Ω 1 Vpp -2 V to +2 V ±3 V White Level positive AC with internal fixing 75 Ω 1 Vpp White Level positive DC 0 V ± 0.2 V 75 Ω Negative 0.45 Vpp BNC 75Ω 0.7 Vpp 0.3 Vpp (seleccionable ON/OFF) BNC 0 V ± 0.2 V	Power supply Mains voltage Mains frequency Consumption Operating environmental conditions Altitude Temperature range Maximum relative humidity	< 4 ppm from 0 to 70° B/G/L/D/K F ₀ R= 4.406250 MHz F ₀ B= 4.250000 MHz 540 mV 500 mV 215 mV 167 mV 5.6 μs 110-125-220-230-240 V AC ± 10% 50-60 Hz 40 W Up 2000 m From 5°C to 40°C 80 % (to 31°C), decreasing lineally up to 150% to 40°C.
Scart S-VHS Impedance Amplitude Luminance Crominance Connector	75Ω 1 Vpp 0.3 Vpp S-VHS	Mechanical features Dimensions Weight	W.228 x H. 102 x D. 307 mm 5.6 kg, 5.8 kg (GV-898+)
Synchronism Synchronisms output, CS Impedance	75Ω	Included accesories	Mains cord model CA-05
		Options	OPT-798-01 OPT-898-01