

## GV-198

The exceptional attributes the **GV-198** video generator consists of have been designed in accordance with the latest trends of modern technology.

Its application field is ranging to every use in which a professional feature is requested, such as to achieve the hardest requirements both in the synchronism step, and the colour and radiofrequency ones.

User-friendly, compact and strong, the **GV-198** is a specified tool for all servicing needs. The **GV-198** will become a consummate partner for after-service professionals, both in workshop tasks and home repairs and fittings.

Direct access keys to nine different pattern charts is available, allowing essential settings to be made in any television receiver, as well as to detect abnormalities through a visual picture examination. The charts can be in format 4:3 and 16:9. Besides, this equipment builds additional functions, to be connected or disconnected by means of the rotary selector.

The synthesized RF modulator ranges from 37 MHz to 865 MHz, so any defect in tuning circuits or in the IF of the receiver can be detected. Tuning is performed by channel (CCIR, OIRT or FCC channes), or directly by frequency in 50 kHz steps. An electronic attenuator allows up to a maximum of 50 dB to be attenuated in 10 dB steps.

A microcontroller carries out the interaction with the user, showing at any moment the state of the generator on the 2 x 16 characters display and by the luminous indicator lit next to the function keys.

The **GV-198** is designed to cover the basic standards: **NTSC / PAL / SECAM**, B / G / D / K / L / I / M / N. It has EUROCONNECTOR with the controlled commutation signal, as well as a composite synchronism output.

It has 10 memories for storing 10 different configurations, from direct access.



✓ **NTSC, PAL, SECAM**

✓ **16:9 & 4:3 IMAGE FORMATS**



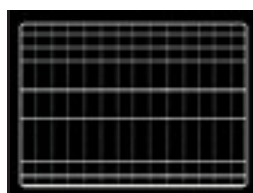
Red pattern



Green pattern



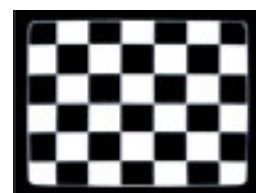
Blue pattern



Grid



Dots



Checkboard



Colour bars



100% white pattern



Black pattern

SPECIFICATIONS		GV-198	
Standard		NTSC M PAL B/G, D/K, I, N SECAM B/G, D/K, L	
Display		Digital, 16 characters, with backlight, with memory indication, TV standard and sound system, SCART commutation, channel and frequency (5 digits). Attenuation level	
<b>Colour subcarrier NTSC (M)</b>			
Frequency		3.579545 MHz $\leq \pm 30$ ppm	
Burst duration		2.38 $\mu$ s ( $10 \pm 1$ Fsc period)	
Posición del burst		5.56 $\mu$ s + 100 ns from the line previous synchronism flank	
Phase		-180° as referred to U axis	
Amplitude error		$\pm 5\%$	
Burst		ON / OFF, selectable	
Chrominance		ON / OFF, selectable	
<b>PAL</b>			
Frequency		4.43361875 MHz $\leq \pm 30$ ppm	
B, G, H, D, K, I		3.58205625 MHz $\leq \pm 30$ ppm	
N		3.5756118 MHz $\leq \pm 30$ ppm	
M		2.4 $\mu$ s ( $10 \pm 1$ Fsc period)	
Burst duration		5.6 $\mu$ s + 100 ns from the line previous synchronism flank	
Burst position		135° as referred to U axis	
Phase		$\pm 5\%$	
Amplitude error		ON / OFF, selectable	
Burst		ON / OFF, selectable	
Chrominance			
<b>SECAM (B, G, H, D, K, L)</b>			
Subcarrier frequency		Fdr = 4.406250 MHz $\pm 2$ kHz Fdb = 4.250000 MHz $\pm 2$ kHz Selectable ON / OFF using burst key	
Line identification points			
Chroma signal		D'r = -1.9 (E'r - E'y) D'r = -1.5 (E'b - E'y)	
Amplitude		Bell filter	
Chroma pre-correction			
<b>Video modulation</b>			
Modulation type		AM double side band	
Modulation index		85%	
<b>Test pictures</b>			
Pattern charts available		Colour bars Red pattern Green pattern Blue pattern Checkboard 100% white pattern Black pattern Grid Dots	
<b>Sound modulation</b>			
Type		Mono multistandard	
Carrier		ON / OFF selectable	
Carrier frequency		4.5 MHz (M, N) 5.5 MHz (B, G, H) 6.0 MHz (I) 6.5 MHz (D, K, L)	
Sound / video carrier ratio		13 dB	
Modulation type		FM int. (1 kHz) (M, N, B, G, H, D, K, I) AM int. (1 kHz) (L)	
FM modulation			
Pre-emphasis		50 ms (B, G, H, D, K, I) 75 ms (M, N)	
Modulation deviation		30 kHz (FM) (B, G, H, D, K, I) 15 kHz (FM) (M, N)	
Modulation indication		50% (AM)	
<b>Composite video signal</b>			
Amplitude		1 Vpp	
Bias		Negative	
Output impedance		75 $\Omega$	
Connector		BNC and EUROCONNECTOR	
<b>R-G-B outputs</b>			
Amplitude		0.7 Vpp	
Impedance output		75 $\Omega$	
Connector		EUROCONNECTOR	
<b>Trigger output</b>			
Signal		Vertical + Horizontal	
Amplitude		2.5 Vpp	
Impedance output		1 k $\Omega$	
Connector		BNC	
<b>Low frequency output</b>			
Amplitude		500 mVpp	
Frequency		1 kHz	
Impedance output		10 k $\Omega$	
Connector		EUROCONNECTOR	
<b>Radiofrequency output</b>			
Range		From 37 to 865 MHz (synthesized)	
Tuning		By frequency: in 50 kHz steps	
Channel plans		CCIR, OIRT and FCC	
Frequency indication		5 digits	
Output amplitude		85 dB $\mu$ V $\pm 3$ dB	
Attenuator		50 dB (in 10 dB steps)	
Impedance		75 $\Omega$	
Connector		BNC	
<b>Power supply</b>			
Mains voltage		AC 110-125-220-230-240 V $\pm 10\%$ / 50-60 Hz	
Consumption		15 W	
<b>Mechanical features</b>			
Dimensions		W. 212 x H. 102 x D. 241 mm	
Weight		1.78 kg	
<b>Accessories included</b>			
		90901207 BNC/TV coaxial cable, CC-07 90901105 Mains cable, CA-05 Spare fuse	