

UG56 Series

TELEVISION INSTRUMENTS

TEST SIGNAL GENERATOR



General

These units are digital test signal generators designed as an integrated signal source for use in the production of televisions, VCRs, CRTs and other equipment in NTSC-M format (UG561), PAL-B, G, D, I/K format (UG562), or SECAM-B, G, D, I/K (UG563).

Features

● Since these units have been designed as devices for integrated signals, each unit outputs only 1 signal. Each series comprises 16 models to choose from according to the type of output signal required: The UG561 series consists of the UG561A through the UG561Q, the UG562 series consists of the UG562A through the UG562Q, and the UG563 series consists of the UG563A through the UG563Q.

Specifications

● Output signals

• Number of outputs	2		
• Connector type	BNC, 75 Ω		
• Output signal level	(UG561)	(UG562)	(UG563)
Video signal	714.3 mV ± 2%	700 mV ± 3%	700 mV ± 3%
Sync signal	285.7 mV ± 2%	300 mV ± 3%	300 mV ± 3%
Color burst signal	285.7 mV ± 2%	300 mV ± 3%	
• Sync signal			
Line frequency	15.734 kHz	15.625 kHz	15.625 kHz
Field frequency	59.94 Hz	50.0 Hz	50.0 Hz
H front porch width	1.5 μs ± 0.1 μs	1.5 μs ± 0.3 μs	1.6 μs ± 10%
H sync width	4.7 μs ± 0.1 μs	4.7 μs ± 0.2 μs	4.7 μs ± 10%
V front porch width	3 H	2.5 H	2.5 H
V sync width	3 H	2.5 H	2.5 H
Serrated pulse width	4.7 μs ± 0.1 μs	4.7 μs ± 0.2 μs	4.7 μs ± 10%
Equalizing pulse width	2.4 μs ± 0.1 μs	2.35 μs ± 0.1 μs	2.4 μs ± 10%
H blanking width	10.9 μs ± 0.2 μs	12.0 μs ± 0.3 μs	12.1 μs ± 5%
V blanking width	20 H	25 H	25 H
Subcarrier frequency accuracy	3.579545 MHz ± 20 Hz	4.433618 MHz ± 20 Hz	
● Sampling frequency	14.31818 MHz	14.1875 MHz	14.1875 MHz
● Digital word length	10 bits	10 bits	10 bits

● General specifications

Power supply	AC 90 to 250 V, 50/60 Hz
Power consumption	Approx. 18 VA (UG561) Approx. 40 VA (UG562, UG563)
Operating temperature range	0°C to 40°C
Relative humidity	20% to 90%RH (non-dewing)
Dimensions	426 (W) x 49 (H) x 460 (D) mm
Weight	Approx. 6 kg
Accessories	Power cord x 1 User's manual x 1

Specifications

● Available models and their output signals (UG561, UG562, UG563)

Model	Output signal
UG561A	FULL FIELD COLOR BAR
UG561B	SPLIT FIELD COLOR BAR
UG561C	SMPTE COLOR BAR
UG561D	EIA COLOR BAR
UG561E	CROSS HATCH
UG561F	CROSS DOT-1
UG561G	CROSS DOT-2
UG561H	100% WHITE
UG561I	50% WHITE
UG561J	RED RASTER
UG561K	MULTI BURST
UG561L	10 STAIR STEP
UG561M	MOD 10 STAIR STEP
UG561N	100% CHROMA
UG561P	PULSE & BAR
UG561Q	WINDOW

Model	Output signal
UG562A	EBU COLOR BAR
UG562B	BBC COLOR BAR
UG562C	SPLIT FIELD COLOR BAR
UG562D	DEMODULATOR PATTERN
UG562E	CROSS HATCH
UG562F	CROSS DOT-1
UG562G	CROSS DOT-2
UG562H	100% WHITE
UG562I	50% WHITE
UG562J	RED RASTER
UG562K	MULTI BURST
UG562L	10 STAIR STEP
UG562M	MOD 10 STAIR STEP
UG562N	100% CHROMA
UG562P	PULSE & BAR
UG562Q	WINDOW

Model	Output signal
UG563A	FULL FIELD COLOR BAR
UG563B	SPLIT FIELD COLOR BAR-1
UG563C	SPLIT FIELD COLOR BAR-2
UG563D	10 STAIR STEP
UG563E	CROSS HATCH
UG563F	CROSS DOT-1
UG563G	CROSS DOT-2
UG563H	100% WHITE
UG563I	50% WHITE
UG563J	RED RASTER
UG563K	GREEN RASTER
UG563L	BLUE RASTER
UG563M	MULTI BURST
UG563N	100% CHROMA
UG563P	PULSE & BAR
UG563Q	WINDOW

Discontinued