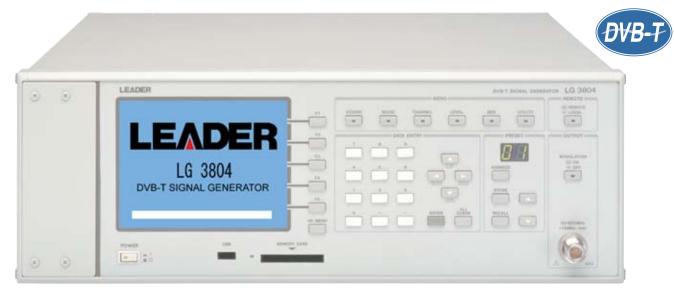
LG 3804



OP70: Moving Picture Option.

LG 3804 DVB-T Signal Generator Ideal for The Production, Test and Alignment of DVB-T Compliant Tuners and Receivers/STBs.

The LG 3804 DVB-T Signal Generator, conforms to DVB-T (digital terrestrial TV in Europe System) standards, features a channel coding, modulation, C/N generator, and up converter in a single package. Consequently, the modulated signal covering VHF and UHF channels can be output. Providing pseudo random signal (PN) and BER counter can perform BER measurement of receivers and tuners with a single unit.

In addition to the internal TS signal, the external MPEG-2 TS can be used to evaluate video and sound quality. Such powerful features are ideal for total evaluation of a reception system.

• LG 3804 REAR PANEL



FEATURES

• All-In-One

This instrument features the signal generator capability and BER measurement capability in a single package. The BER function is used to measure the front-end section; the broadcasting MPEG-2 TS function is used to visually check entire system.

Also, such features are ideal for the production line of STB and tuners.

- Arbitrary Modulation System Settings The modulation system can be arbitrary set via the front panel controls. The QVGA LCD graphically displays the setting conditions.
- Encoding/Modulation MPEG-2 TS in Real Time The MPEG-2 TS applied from the DVB-ASI or DVB-SPI connector can be encoded/modulated in real time.
- **100 Preset Conditions** Up to 100 preset conditions can be stored in the memory. Since the stored contents can be categorized into 10 groups, the preset mode is convenient for inspection applications.
- Various Options

Moving Picture Option (Factory option) With the HDD and DVD-ROM installed, a stream including HDTV content (i.e., requires large storage area) and long-time TS can be played back from the HDD.

LG 3803/3804/3803-01 SPECIFICATIONS

Model	LG 3803	LG 3804
Broadcasting System		
Terrestrial Digtal TV Broadcast	ATSC A/53B	DVB-T
Cable TV Broadcast	ITU-T J.83 annex B	
Modulation System	8VSB/ 64QAM/ 256QAM	QPSK/16QAM/64QAM, hierarchical
Band Width		6MHz/7MHz/8MHz
Coding Rate		1/2, 2/3, 3/4, 5/6, 7/8
FFT Mode		2k, 8k
Guard Interval		1/4, 1/8, 1/16, 1/32
RF Signal Generator		
Frequency Range	50 to 900MHz	30 to 960 MHz
Output Range Input/Output Signal Sources	-100 to + 13dBm (into 50Ω)	
Pseudo Random Signal	PN15, PN23	
Still Picture Pattern	Color bar, ramp, monoscope	
Sound(Tone)	1kHz(LR), 400Hz(LR), 1kHz(
Screen Size	1080i/ 720p/ 480p/	(*1)
	480i(16:9)/ 480i(4:3)	
DVB-ASI Input		
Input Connector Input Level	BNC (Impedance; 75Ω) 0.8Vp-p	
Baud Rate	270Mbps	
DVB-SPI Input		
Input Connector/Impedance 25-pin D-sub/100Ω differential input		
Input Level	LVDS	
Input Format	MPEG-2 TS or BER count input	
ASI, SPI Input Specification		
Input Packet Format Applicable Stream	188, 204 byte MPEG-2 TS (ISO/IEC 13818-1)	
FREQ STD Input/Output		
Input Connector	BNC (Impedance; 50Ω)	
Input Level	0.8 Vp-p	
Input Frequency	10 MHz	
4-Line Serial BER Input	DNO	
Input Connector Input Level	BNC LVTTL 3.3V	
Input Signal	CLOCK, DATA, SYNC, VALID	
BER Counter Section		
Input Section		
Packet Length	188,204 byte	
Input Connector DVB-SPI connector, Serial Input Connector GO/NO-GO Function		
Threshold Settings Upper and Lower limits of BER		
GO/NO-GO Indication	Displays GO/NO-GO on the screen	
C/N Generator Section		
C/N Variable Range	0 to 35 dB (Setting Resolution: 0.1dB)	
On/Off External Interface	Selectable	
Memory Card Interface	Compact flash card (CFA TY	PE-1)
ETHER Interface	10BASE-T, 100BASE-TX	
USB Interface	USB1.1	
GP-IB	24-pin, ANSI/IEEE Std 488.1 - 1987	
Display Panel		
LCD 5.7" QVGA (320 x 240) TFT Color LCD Environmental Conditions		
Spec-Guaranteed Temperature 10 to 35 °C		
Spec-Guaranteed Humidity	≤85 %RH (without condensation)	
Power Requirements		
Voltage	90 to 250 VAC, 50/60 Hz	
Power Consumption	140W max.	
Dimensions Weight	16.8(W)×5.9(H)×17.9(D) incl Approx 30.9 Lbs	1
noight	Abbiox 2019 EDS	

Model LG 3803-01 Modulator Section Standard ANSI/SCTE 55-1, 55-2 Modulation System QPSK Symbol Rate 1.024Msps (55-1; Alternative) 0.772Msps (55-2:Grade A) 1.544Msps (55-2;Grade B) **RF Signal Generator** Frequency Range 70 to 130MHz Output Range -100 to + 13dBm (into 50Ω) Input/Output Signal Sources Pseudo Random Signal PN15, PN23 **BER Serial Input** Input Connector BNC (Impedance; 75Ω) Input Level LVTTL 3.3V **BER Counter Section** Input Connector Serial Input Connector GO/NO-GO Function Threshold Settings Upper and Lower limits of BER GO/NO-GO Indication Displays GO/NO-GO on the screen **C/N Generator Section** C/N Variable Range 0 to 20dB Setting Resolution 0.1dB On/Off Selectable External Interface Compact flash card (CFA TYPE-I) 10BASE-T, 100BASE-TX Memory Card Interface ETHER Interface **Display Panel Environmental Conditions** Spec-Guaranteed Temperature 10 to 35 °C Spec-Guaranteed Humidity ≤85 %RH (without condensation) **Power Requirements** Voltage 90 to 250 VAC, 50/60 Hz Power Consumption 40W max. 16.8(w)×3.9(H)×17.9(D) inch Dimensions Weight Approx 15.5 Lbs

*1 : Picture pattern and sizes are subject to without notice.