

LG 38SER03

ATSC MODULATOR

This add-in software adds ATSC modulation functionality to the LG 3810.

FEATURES

- This software enables the LG 3810 to modulate signals as outlined in the ATSC standard.

SPECIFICATIONS

Channel Coding Section

Broadcasting System

Digital Terrestrial Television Broadcasting:
ATSC (A/53B)

Transmission Parameters

Carrier Modulation: 8VSB

RF Signal Generator

Output Channel (*1): VHF, UHF, CATV

Output Level: -110.0 to +13.0 dBm (into 50 Ω)
-63.0 to +60.0 dBmV (into 50 Ω)
-3.0 to +120.0 dBμV (into 50 Ω)

*1 When CW is set, a carrier signal is generated at the 8VSB modulation wave's pilot signal position. Therefore, the frequency that is displayed on the screen and the frequency that is generated differ by 441 Hz.

Internal Signal

Still Picture Pattern (*2): Colorbar, ramp, monoscope

PSI/SI Information: Representative terrestrial broadcast values are stored for the PAT, PMT, STT, MGT, and TVCT of the ATSC specification.

Still Picture Format (*2)

ATSC: 1920×1080i, 1280×720p, 704×480p, 704×480i (16:9), 704×480i (4:3)

Audio: 1 kHz (LR), 400 Hz (LR), 1 kHz (L) + 400 Hz (R)

*2 The still picture patterns and formats may be changed.

Environmental Conditions

Same as the LG 3810

Contents

License key	1
USB memory device (with sample TS)	1
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LG 38SER04

DVB-T/H MODULATOR

This add-in software adds DVB-T and DVB-H modulation functionality to the LG 3810.

FEATURES

- This software enables the LG 3810 to modulate signals as outlined in the DVB-T and DVB-H standards.

SPECIFICATIONS

Channel Coding Section

Broadcasting System

Digital Terrestrial Television Broadcasting:
DVB-T (DVB EN300744) (*1)

Mobile Broadcasting: DVB-H (DVB EN302304)

Transmission Parameters

FFT Mode

DVB-T: 2 k, 8 k
DVB-H: 2 k, 4 k, 8 k

Guard Interval

DVB-T and DVB-H: 1/4, 1/8, 1/16, 1/32

Carrier Modulation

DVB-T and DVB-H: QPSK, 16QAM, 64QAM

Bandwidth

DVB-T: 6 MHz, 7 MHz, 8 MHz
DVB-H: 5 MHz, 6 MHz, 7 MHz, 8 MHz

Coding Rate

DVB-T and DVB-H: 1/2, 2/3, 3/4, 5/6, 7/8

*1 Hierarchy information is not included.

RF Signal Generator

Output Channel: VHF, UHF

Output Level: -110.0 to +13.0 dBm (into 50 Ω)
-63.0 to +60.0 dBmV (into 50 Ω)
-3.0 to +120.0 dBμV (into 50 Ω)

Internal Signal (*2)

Still Picture Pattern (*3): Colorbar, ramp, monoscope

PSI/SI Information: Representative terrestrial broadcast values are stored for each specification.

Still Picture Format (*3) (*4):

1920×1080i, 720×576i, 720×480i

Still Picture Frame Rate (*3):

25, 30

Audio: 1 kHz (LR), 400 Hz (LR),
1 kHz (L) + 400 Hz (R)

*2 Internal signals are only valid when the broadcasting system is set to DVB-T.

*3 The still picture patterns, formats, and frame rates may be changed.

*4 When the still picture frame rate is set to 25 fps, you cannot set the screen size to 720×480i. When the still picture frame rate is set to 30 fps, the screen size is fixed to 720×480i.

Environmental Conditions

Same as the LG 3810

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