

**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

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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

**Contents**

License key .....	1
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