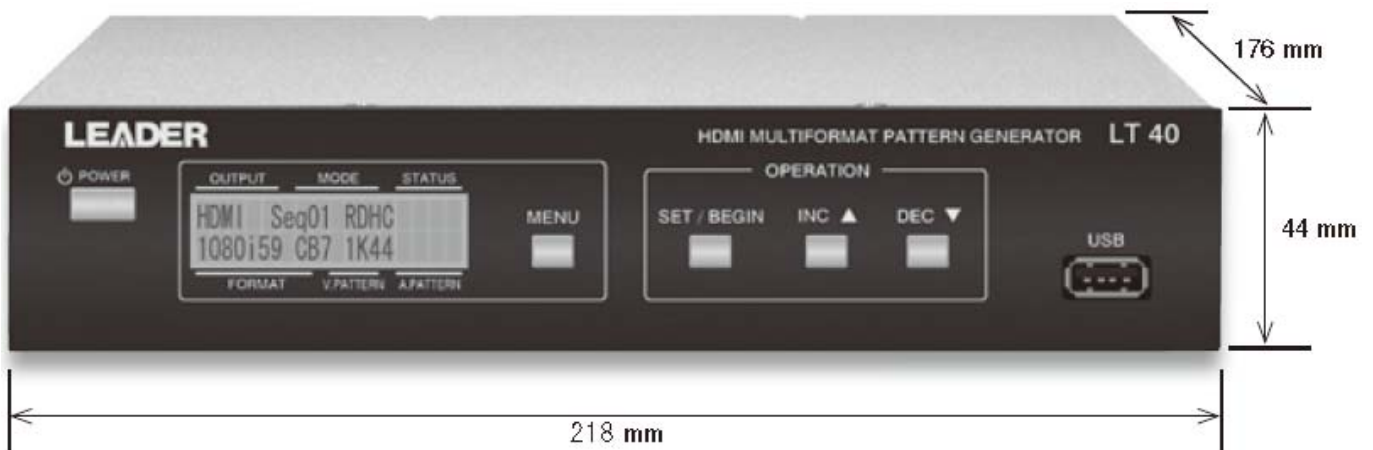


# LT40 HDMI Multi Format Pattern Generator



## Compact, low cost

Digital TV compliance HDMI signal generator

### ◆ Description

LT40 is a digital TV compliance multi format pattern generator equipped with HDMI output. Monoscope, multiburst, character and etc test patterns are available.

### ◆ Features

#### ① Multi format output

Outputs 1920x1080, 1280x720, 720x480 and 720x576 DTV formats for television set and projector inspection test.

#### ② Simple moving picture

Scroll pattern function is available for each test pattern as a simple moving picture. Scroll pattern horizontally, vertically and diagonally are selectable.

#### ③ Still pattern/Moving picture available

Still pattern and moving picture play back outputs are available through USB connectors of front or rear panel

#### ④ Preset recall function

Output format, test pattern and etc of front panel settings can be stored in preset. Up to 100 presets can be stored and recalled.

#### ⑤ Sequence function

Presets can be recalled arbitrarily in any sequence.

#### ⑥ Option board expansion capability

HDMI output option or other compliance interface option board can be installed.

### ◆ Specifications

#### Output formats

1080i/59.94, 1080i/50, 720p/59.94, 720p/29.97, 720p/23.98, 720p/50, 720p/25, 480p/59.94, 480i/59.94, 576p/50, 576i/50

#### Output patterns

Color Bar, Raster, Ramp, Convergence, Crosshatch, Multiburst, Character, Window, Monoscope,  
etc

#### Simple moving picture

Pattern scroll

Direction setting

UP/DOWN/LEFT/RIGHT

Moving speed

Progressive

Vertical: 0~256 line frame (1 line step)

Horizontal: 0~256 dot frame (1 dot step)

Interlace

Vertical: 0~256 line frame (2 line step)

Horizontal: 0~256 dot frame (4 dot step)

#### Still pattern

Read file of still pattern from USB memory

#### Moving picture

Read file of moving picture from USB memory

#### HDMI output signal

Standard          HDMI 1.3a, HDCP 1.2

#### TMDS

Output format    YPbPr 4:2:2 8 bits

Deep Color        HDMI Tx 4:4:4

Link                Single

#### Audio

Internal

Format             IEC 60958-3

CH                  2

Output level        0dB

Frequency           OFF/400Hz          1kHz (L/R switch independently)

Sampling frequency 32kHz/44.1kHz/48kHz

Quantization bit number 16 bit

InfoFrame    AVI, SPD, AUDIO InfoFrame compliance

HDCP          ON/OFF (selectable menu)

Production key built-in

Certification test result will be displayed on the LCD display

CEC            ON/OFF (selectable menu)

Header Block <Polling message> connection confirmation

Confirmation result will be displayed on the LCD display

DDC            On/OFF (selectable menu)

DDC2B

Read EDID

Hot plug detection    On/OFF (selectable menu)

Connector HDMI connector (type A)

External interface

USB (Front panel)

Function Recall preset data from USB memory  
Recall still pattern or play back moving picture

Connector USB (A type)

USB (Rear panel)

Function Recall preset data from USB memory  
Recall still pattern or play back moving picture

Connector USB (A type)

Preset/recall

Function Up to 100 of presets (address 00 ~ 99) of panel setting

Sequence 100 steps sequence and can be grouped in 10 sets

Last memory

Function Boot up in the condition as previously shut down

Option board

Function Install with output unit options  
(Output unit are future support)