

# LT443D-SD

## SD-SDI Module

For LT443D

The LT443D-SD (SD-SDI Module) can generate 525/625 line format for 4:2:2 component signal SDI outputs with the mainframe. Logo & ID Character display function, simple motion of test patterns or picture can be displayed, embedded audio & Natural picture display (option 70 \*).



**Test Equipment  
Depot**  
1-800-517-8431

99 Washington Street  
Melrose, MA 02176  
Fax 781-665-0780  
TestEquipmentDepot.com

## Specifications

### Output

SD-SDI Video output: 1-system 2-outputs

### Standards Supported

SMPTE 125M, SMPTE 259M, ITU-R BT.601,  
ITU-R BT.656

### SDI Outputs

Bit rate: 270 Mbps  
Amplitude: 800 mVp-p  $\pm$  10%  
Overshoot:  $\leq$  10%  
Rise/fall time: 0.4 to 1.5 ns (from 20% to 80%)  
DC offset: 0 V  $\pm$  0.5 V  
Output Impedance: 75 $\Omega$   
Return loss:  $\geq$  15dB (5 MHz to 270 MHz)

### Functions

Video Format: 525/59.94 - 270MHz, 625/50 - 270MHz

### Test Patterns

Color Bar 100/75%, EBU Color Bar,  
BBC Color Bar, SMPTE Color Bar,  
Ramp & Color Bar: 525/625, Flat Field 100/50/0%,  
Field ID, Cross Hatch,  
Line Sweep 100/60%, Multiburst 100/60%,  
Over Size Ramp, Digital Limit Ramp,  
Shallow Ramp, 10 Step Stair Step  
Check Field: SMPTE RP-178  
Monoscope: Normal, Invert  
Bowtie 100%, Pulse & Bar  
Red Raster, Multi Pulse  
Natural Picture \*

### Timing Adjustment

Any position within frame  
(V: Line, 27 MHz per clock)

### Simple Motion Picture

Set speed (field, frame) and direction (H,V)  
(Video Only)

V: 0 to 256 lines, 2 line steps.

H: 0 to 256 dots, 4 dot steps.

ID Character (Video)

Number of Characters: 20 max.

### Embedded Audio

Groups (1&2) or (3&4) selectable

Active Channels: 8 Ch (4 Ch x 2 Group)

Sampling 48 kHz at 20/24 bit

Adjustable frequency, level for each channel

Audio click function: 1, 2, 3, 4 sec, none.

Sync with Video signal: Selectable non-frame number or  
with number.

Frequency: 50Hz to 20kHz

Level: -60 to 0 dBFS (1 dB step) Silence.

Selectable emphasis (flag only)

### Available Option

\*Option 70 available in mainframe case with natural  
picture memory option. (LT443D-70)