# HD-455/SD/1

## TIME CODE READER / VIDEO INSERTER

The **HD-455/SD/1** is an HD & SD Timecode Reader/Video Inserter. The unit reads SMPTE/EBU LTC, D-VITC or RP-188 and inserts that timecode onto an SDI video signal. The timecode can also be embedded into the D-VITC or RP-188. Additionally, up to 30 characters of user defined text may be inserted into the video. Two independent character windows are available and can be used to insert Time, User Bits, Time & User Bits or User Defined Text. Ten different font sizes are available and the characters may be located anywhere on the video using the horizontal & vertical controls. Included font colors are Grayscale along with six solid colors (Red, Orange, Yellow, Green, Blue & Violet).

The unit is easily configured using the front panel controls or the front panel mounted USB port with the supplied PC software. The front panel controls consist of four push buttons used to navigate the various setup menus that are displayed on a 16 x 2 character LCD display. The USB port and the PC software provide a user-friendly GUI (Graphical User Interface) used to configure the unit.

The **HD-455/SD/1** may be ordered with up to six independent video channels. Additionally, versions that read other timecodes are available (HD-266/SD/1 reads ESE timecode and HD-275/SD/1 & HD-277/SD/1 read IRIG timecode).

### Features

- Reads LTC Bi-Directionally at Multi-Speed (1/30th to 20x)
- Two Independent Character Windows
- 1 to 6 Independent Video Channels Available
- Embeds Timecode into D-VITC or RP-188
- Compatible with ES-466 (Up/Down Presettable Timer)
- Several Options and Custom Features Available

- Automatically detects SD or HD Format
- Accepts All Common HD & SD SDI Signals
- Inserts Timecode onto SDI Video Signal
- Reads SMPTE/EBU, D-VITC & RP-188
- LCD Status & Setup Display
- Universal Power Supply (86-264 VAC)



## SPECIFICATIONS

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|---|---|
| **Power:** | 85 – 264 VAC, 47 – 63 Hz, 15 Watts max |
| **Mechanical:** | Black anodized aluminum enclosure 1.6" H x 8" W x 7.3" D |
| **Time & Setup/Status Display:** | 16 x 2 character LCD |
| **Time Code Input:** | SMPTE (100 mVpp-10 Vpp; 10kΩ input impedance) |
| **SD SDI Input:** | SMPTE 259M-C (270Mb/s), 525 line and 625 line 4:2:2 |
| **HD SDI Input/Output:** | 1080i/60, 1080i/59.94, 1080i/50, 1080p/30sF, 1080p/29.97sF, 1080p/25sF, 1080p/24sF, 1080p/23.98sF, 720p/59.94 |
| **Options:** | DC, LV, P, P2, UL, /2, /3, /4, /5, /6 |