

# HD-491/SD

## RP-188 & DVITC DECODER / GENERATOR

The **HD-491/SD** is an HD & SD SDI Timecode Decoder/Generator. The unit accepts an SDI signal, decodes the RP-188 or D-VITC and produces either a SMPTE or EBU LTC output. Simultaneously, the unit produces an **ESE** timecode output which can be used to drive new or existing clock systems. A selectable (reclocked or non-reclocked) SDI video loop output is also provided.

The unit can be used as a Translator (for shuttle speed applications) or it can be jammed and used as a Generator (real-time applications). When decoding D-VITC, the appropriate line number must be selected and when decoding RP-188, the last valid RP-188 packet is output. The **HD-491/SD** is also capable of transposing RP-188 or D-VITC User Bits into one of multiple different Date formats.

The **HD-491/SD** is 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 unit is available with several options including a 6-digit or 8-digit .55" LED display.

### Features

- Decodes RP-188 or D-VITC
- Automatically detects SD or HD Format
- SDI Video Loop Output
- Outputs SMPTE or EBU LTC & ESE Timecode
- Universal Power Supply (86-264 VAC)
- LCD Status & Setup Display
- Accepts All Common HD & SD SDI Signals
- USB Setup Interface



### SPECIFICATIONS

- 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
- SD SDI Input:** SMPTE 259M-C (270Mb/s), 525 line and 625 line 4:2:2
- HD SDI Input:** 1080i/60, 1080i/59.94, 1080i/50, 1080p/30sF, 1080p/29.97sF, 1080p/25sF, 1080p/24sF, 1080p/23.98sF, 720p/60, 720p/59.94
- SMPTE/EBU Output:** 0 db into 600Ω, balanced
- Options:** DC, P, P2, UL, 6-digit, 8-digit

## ES-233

### VIDEO FADER

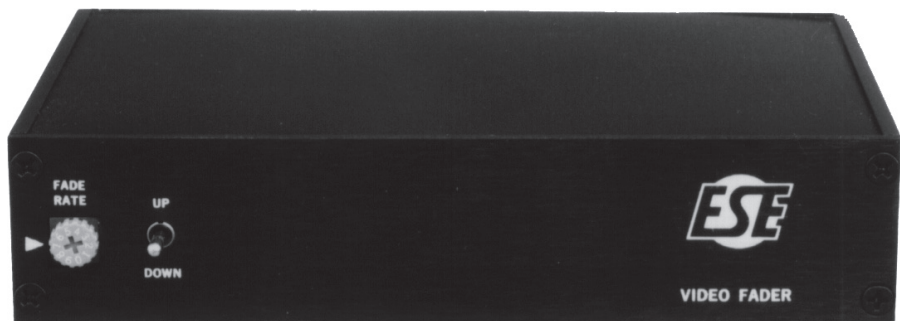
The **ES-233** is an automatic video fade-to-black system. The unit uses a digital attenuator which provides an extremely linear, repeatable fade rate. Fade rates are adjustable between 1 frame and 150 frames via a front panel mounted, ten position selector switch or with Option "D". The video-fade operation is controlled by either the front panel "UP/DOWN" switch or via the remote control inputs of the rear mounted connector.

### Applications

- "Live" Video Fades
- Video Editing Systems
- "Cuts-only" Systems
- Duplication Systems

### Features

- Remote Control
- Cascadable Control Inputs
- "Broadcast Quality" Fades
- Optional Rack Mount Enclosure
- Optional Combo Rack Mount (**ES-219A** Black Generator with **ES-233**)
- Video Loop For Simple Installation
- Repeatable And Adjustable "Fade Rate"



### Specifications

- Input/Output:** 1 Vpp, 75 Ω
- Fade Rate:** 1 Frame - 5 seconds (adjustable)

- Electrical :** 117 VAC, 50/60 Hz
- Mechanical:** 7" W x 1.6" H x 5" D  
Black Anodized aluminum

- Options:** D, J, P, P2, UL

