## SMPTE PRESETTABLE UP/DOWN TIMER

The ES-466 is an eight digit, presettable 24 hour SMPTE/EBU timer (00:00:00:00 – 23:59:59:29) with five top-front mounted controls (UP, DOWN, STOP, RESET and PRESET). A SMPTE/EBU output is provided on a rear panel XLR connector. The "Bit Order Forward" toggle switch also located on the rear panel of the ES-466 allows the unit to mimic decks that always output "forward" code.

The **ES-466** offers simple user operation.

### **Features**

- Forward/Reverse or Forward-Only Bit Order
- Thumbwheel Preset of Hours, Minutes & Seconds
- 24 Hour Up/Down Count Range (00:00:00:00 23:59:59:29)
- SMPTE Time Code Output



### **SPECIFICATIONS**

Power: 5 Watts Max

**Electrical**: 110-120 VAC, 50/60Hz

SMPTE Time Code Output: XLR connector

Enclosure: 2.5" High x 10" Wide x 6" Deep Options: D, EBU, ESE, J, N, P, R, UL, Z

# VERTICAL INTERVAL TIME CODE (VITC) READERS

The ES-491 and ES-496 are 8-digit VITC Readers and are able to accept video from either an NTSC or PAL source. The ES-491 has .55" and the ES-496 has 1.0" yellow LED displays. A front-mounted push-button "HOLD" switch allows the time on the display to be frozen and a "TIME/USER" switch permits time or user bits to be displayed. Internal DIP switches allow manual selection of VITC video lines, or automatic VITC Identification Mode. The VITC Input/Output loop is accessible on rear-mounted BNC connectors. A  $75\Omega$ "Termination" switch can be used when no other device is to be connected to the video output. Several options are available including 220 VAC operation, RS-232C output, **ESE** TC90 output and LTC (Longitudinal SMPTE or EBU Time Code) output. The **ES-491** is housed in a desk top enclosure that measures 2.8" H x 8" W x 6" D and a 134" x 19" rack mount is optional. The **ES-496** is housed in a 3½" x 19" x 10" rack mount enclosure.

### **Features**

- Eight Bright-Yellow LED Displays
- **Drop-Frame Indicator**
- Auto or Manual Line Selection

Accepts NTSC Or PAL

- Front Panel "Hold" Pushbutton
  - Reads SMPTE or EBU
- 750 Video Termination Switch



#### **Specifications**

**Video Input:** 1 VPP, 75 $\Omega$ , BNC loop-thru; switchable termination

**VITC Lines:** 10 - 24

VITC Level: 80 IRE nominal; 50 IRE minimum

Enclosure: ES-491: Desk-Top ES-496: Rack Mount **Dimensions:** ES-491: 2.8" H x 8" W x 6" D

ES-496: 3.5" H x 19" W x 10" D

Electrical: 117 VAC, 50/60 Hz Power: 5W maximum Options: Black, J, LTC, P, RS, UL

