

# ES-491 & ES-496

## 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 1 $\frac{3}{4}$ " x 19" rack mount is optional. The **ES-496** is housed in a 3 $\frac{1}{2}$ " x 19" x 10" rack mount enclosure.

### Features

- Eight Bright-Yellow LED Displays
- Drop-Frame Indicator
- Several Options Available
- Auto Or Manual Line Selection
- Accepts NTSC Or PAL
- Reads Time Or User Bits
- Front Panel "Hold" Pushbutton
- Reads SMPTE Or EBU
- 75 $\Omega$  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:* Black Anodized Front Panel  
*J:* 220 VAC Operation  
*LTC:* Longitudinal Time Code Output  
*P:* 1 $\frac{3}{4}$ " Rack Mount (ES-491 only)  
*RS:* RS-232C ASCII Output  
*UL:* UL Approved External Power Supply

