

AIRBORNE INSERTERS

IRIG-B TIME CODE READER / VIDEO INSERTER SERIES

The **ES-277U** Series is a family of IRIG-B Time Code Readers / Video Inserters. Designed and built for airborne and ground mobile use, these products assure reliable performance regardless of the application. The "GPS" Option replaces the internal IRIG-B Time Code Reader with a GPS Receiver, assuring the ultimate in time accuracy.



Features

- Rugged Compact Design For Airborne And Ground Mobile Use
- One, Two, Three, Four Or Five Independent Video Channel Versions
- Operates With RS170A And RS343 (FLIR) Video Signals
- Variable Size, Position And Brightness Controls
- Low Power Consumption
- 12 & 28 VDC Power
- Locking Power Switch
- Wide Operational Temperature Range
- Translucent White Characters
- Character Mask Feature
- Optional GPS Receiver

Models in the **ES-277U** Series are available in one, two, three, four and five channel configurations. The units accept IRIG-B Time Code and inserts it into independent video signals. All time code and video inputs and outputs are via front panel mounted BNC connectors. Each video loop accepts either RS-170A or RS-343 composite video. Days, Hours, Minutes, Seconds and Milliseconds are inserted onto each video stream. (Milliseconds can be omitted, if desired.) A supply voltage of +12 to +35 VDC is received via an ITT Cannon #KPT02E-10-98P connector, mating connectors are not supplied.

With the ease of on-screen programming, setting the **ES-277U** could never be easier. Settings include Size, Position, Brightness, Millisecond Blanking, and Mask Mode. Mask Mode enables the user to select between several styles of background masks which include solid characters on video, solid characters on a solid mask, translucent characters on video or translucent characters on a translucent mask. Separate Character Contrast and Mask Contrast potentiometers allow variations of black, white and gray.

SPECIFICATIONS

Electrical:	12 - 35 VDC, 200 mA Max, 5 Channels	Mounting Plate:	5.20"W x 0.125"H x 5.75"D
IRIG Input Impedance:	25 K Ω minimum	Enclosure:	Textured-Black Painted Aluminum
Mark Amplitude:	100 mVPP - 10 VPP AGC Input	Weight:	2.0 lbs. (ES-277U/1), 2.25 lbs (ES-277U/2) 2.50 lbs (ES-277U/3), 2.75 lbs (ES-277U/4)
Mark To Space Ratio:	3:1 nominal	Operating Temperature:	0° to +70°C
Input/Output Amplitude:	1 Vpp, 75 Ω	Storage Temperature:	-55° to +105°C
Signal Format:	Composite Video RS-170A Or RS-343	Humidity:	@95% non-condensing (+30°C to +60°C).
Video Connectors:	BNC	Options:	AC, ANT, GPS, IRIG, J, RP, SV, 810F
Size:	4.0"W x 3.45"H x 6.0"D (ES-277U/1, /2, /3, /4) 4.2"W x 4.35"H x 6.0"D (ES-277U/5, ES-277U/4/GPS and all /S's)		

Others codes available on a custom basis,
Please consult factory.