

MASTER CLOCK SYSTEM SWITCHERS

The **ES-150U** and **ES-151U** are Automatic Time Code Switchover units. They are designed to provide a simple/automatic method for switching between a Primary Master Clock and a Secondary Master Clock. These units monitor one or two Primary Clock (A) inputs and if a fault is detected, the **ES-150U** or **ES-151U** automatically switches to the Back-up Clock (B). Front panel mounted LEDs indicate Mode and Inout/Output status. The **ES-150U** has two actively switched time code inputs: SMPTE/EBU LTC and **ESE**. The **ES-151U** also has two active time code inputs: IRIG (A, B, or E)-AM and IRIG (A, B, or E)-TTL.

Features

- Automatic Time Code Switchover
- Simple Installation & Operation
- Rack Mount Enclosure
- Universal Power Supply (90-264 VAC)
- LED Status Indicators
- Various Options Available



ES-150U Rear Shown with options DPS and NET.

The **ES-150U** provides active switchover inputs and outputs for SMPTE/EBU LTC and **ESE** time code. Alternatively, the **ES-151U** provides IRIG-A, IRIG-B and IRIG-E instead of SMPTE/EBU and **ESE**. Other time codes and reference signals can be passively switched using either the three I/O circuits available on BNC connectors or the five I/O circuits available on the DB-25 Connector. These can be used for different signals such as IRIG, 10 MHz, 1 kHz and 1 PPS. The units can be set to operate in one of four modes: 1) all outputs use the primary 'A' inputs, 2) all outputs use the secondary 'B' inputs, 3) Auto mode which switches all outputs over to the 'B' inputs if a fault is detected and then automatically return to the primary 'A' inputs after they are determined to be valid again and 4) Trip mode which will have all outputs switch over to the 'B' inputs if a fault is detected but the units will not switch back to the 'A' inputs until the reset button is pushed.

Notable options include option DPS which provides a second power supply in the event one power supply fails and option NET which allows the user to control and monitor the status of the unit via a web page.



ES-151U Rear Shown with options DPS and NET.

SPECIFICATIONS

ES-150U

Electrical: 90-264 VAC, 47-63 Hz
Power: 60 Watts Maximum
Mechanical: 1.75" x 19" Rack Mount, 10" Deep
Active Time Code I/O: ESE, BNC Connectors
 SMPTE/EBU, XLR Connectors
Passive Time Code I/O: 3, BNC Connectors
 5, DB-25 Connector
Options: Clear, DPS, NET, UL

ES-151U

90-264 VAC, 47-63 Hz
 60 Watts Maximum
 1.75" x 19" Rack Mount, 10" Deep
 IRIG-A, IRIG-B, IRIG-E, AM /TTL, BNC Connectors
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 3, BNC Connectors
 5, DB-25 Connector
 Clear, DPS, NET, UL

