



WHAT'S FEATURED FOR NAB 2017

GPS BASED NTP TIME SERVER



The **ES-104E** is a GPS Based NTP Time Server that provides a practical method of putting accurate time information onto a network. The **ES-104E** is an IPV4/IPV6 compatible NTP Time Server. The unit receives GPS time using the supplied antenna. The NTP output is provided on a 10/100 Base-T Ethernet connector. The **ES-104E** is housed in a rugged black anodized desktop enclosure. A voltage-controlled temperature-compensated crystal oscillator is used to maintain the accuracy of the time code outputs when lock is lost. A rackmount enclosure is optionally available.

SELF-SETTING ANALOG CLOCKS



The **LX-5105U / LX-5112U / LX-5116U** are enhanced Wall Mount Analog Clocks with 5", 12" and 16" viewing diameter, respectively. The units are designed to operate as Time Code Readers or Stand-Alone Clocks. They can read, decode and display time information from most any Master Clock or other source of time code. A rear-mounted BNC connector auto-detects and displays time as received from a source of SMPTE-LTC/EBU, ESE or ASCII time code. Optionally available on the **LX-5112U** and **LX-5116U** is the ability to synchronize to an NTP server. After a very simple "set-up" procedure and receipt of time code, the unit automatically sets itself to the exact time and continuously slaves to time code.

SDI RECLOCKING DISTRIBUTION AMPLIFIER



The **DV-242** is an SDI digital video (3G, HD & SD) Quad 1 x 2 Distribution Amplifier. The unit features high-performance & low-cost and is able to distribute 3Gb/s, 1.5Gb/s & 270Mb/s data rates all in a single rack-mount enclosure. The **DV-242** automatically detects the data rate for each of the four channels and then re-clocks and equalizes the signal. An external power supply is not required as the **DV-242** is completely self-contained requiring only 85-264VAC to operate. Also available is the **DV-242/Loop** which provides a non-reclocked SDI video output on an additional BNC connector for all four channels.

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TIME CODE TO USB CONVERTERS



ESE's "TCUSB" line offers a simple and quick solution for synchronizing a computer to your existing time code equipment. When a serial port or a PCI slot for a Time Code Card is not available or these solutions are undesirable, an ESE "TCUSB" is the ideal alternative. The "TCUSB" line includes the **ES-56** which converts SMPTE/EBU LTC code or ESE Time Code that can be used for computer time synchronization or for obtaining LTC data for editing purposes (when using SMPTE/EBU) and the **ES-71** which converts real time SMPTE/EBU LTC code or ESE Time Code. Each device is powered by the USB interface and each "TCUSB" has various operating modes that can be selected by DIP switch settings or by the provided software.

PoE POWER OVER ETHERNET



ESE's line of 4-digit, 6-digit & Analog Time Code Displays are now available with **PoE** (Power over Ethernet). Specifying the **PoE** option will provide the ability to pass electrical power to the unit via the Ethernet connector. Hours, Minutes and Seconds are displayed on six-digit models and Hours and Minutes are displayed on four-digit models. **PoE** Digital Displays are available with LEDs measuring 1/2", 1", 2", 4" and 7" in height. **PoE** Analog Displays are available with 12" and 16" viewing diameters. Enclosure styles include Desk Top, Console Mount, Rack Mount and Wall Mount. When combined with option NTP-C only a single Ethernet cable is needed for both electrical power and NTP synchronization.

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GPS BASED FREQUENCY STANDARD



The **ES-410** a GPS (Global Positioning System) based frequency standard that generates a stable source of 10 MHz and 1 PPS using GPS satellites as a reference. The unit provides 10 MHz in both Sine Wave and Square Wave (5 volt logic) form. Four Sine Wave and four Square Wave outputs are provided. The 1 PPS output is a 50% duty, 5 volt logic signal, positive-edge coinciding with the UTC seconds change. An ESE TC90™ Time Code output is also provided for driving remote time displays. Two front panel LEDs indicate when the **ES-410** is locked to GPS and when power is supplied to the unit. A USB interface allows configuration of the Time Zone and other parameters, and outputs the ASCII time. The unit is housed in a black anodized aluminum desktop enclosure. A rackmount enclosure is optionally available.



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