WHAT'S NEW FOR NAB 2015

MASTER CLOCK SWITCHER

The upgraded **ES-150U** Master Clock Switcher continues to provide a simple method of monitoring two Master Clocks. The **ES-150U** accepts *ESE* and SMPTE/EBU time code from two Master Clocks (primary & backup) and provides automatic or manual switchover from the primary to the backup. The time codes are monitored and will switch to the backup master clock upon failure of time code (3 selectable modes: *ESE*, SMPTE/EBU or either). The **ES-150U** has LED indicators that displays status of both time codes and auto switchback or trip (manual reset) mode. If preferred, network control of the **ES-150U** is optionally available.

DIGITAL & ANALOG CLOCK

The **LX-5212U** is an enhanced version of the LX-5212 12" Digital & Analog Clock. New features include the ability to auto-detect the time code input via a single BNC connector. Accepted time codes include SMPTE/EBU-LTC, *ESE*, ASCII time code and *ESE* timer code. Alternatively, the unit can be synchronized with an NTP server by specifying the NTP6-C option which makes the **LX-5212U** IPv6 compatible. The **LX-5212U** now includes a universal power supply and can operate using 90-264VAC. The upgraded unit adds the ability to choose either the standard Amber LED display or specify Blue, Green or Red LEDs which are now available as options.

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.

MASTER CLOCK UPGRADES

ESE Master Clocks have been enhanced with several new features. Upgraded models include **ES-185E**, **ES-160E** and **ES-188E** (formerly ES-185U, ES-160U and ES-188). These units now include further reliability with a Dual Battery Back-Up, *ESE* and ASCII outputs that stay live for the 1st 4 hours of back-up, compatibility with universal power supplies (90-264 VAC) and ease of use with new Control Panel Software. Also on the enhanced **ES-185E** and **ES-160E** we are introducing a new NTP6 option which will provide an NTP server compatible with the latest version of Internet Protocol, IPv6. Supplying the IPv6 provides features not present in earlier versions such as improved security and authentication features.

7" TIME CODE DISPLAY

The **ES-971** is a 4-digit Time Code display available with either Blue, Green or Red 7" LED displays. The unit is housed in a black-textured aluminum wall-mount enclosure. The **ES-971** accepts, via the rear-mounted terminal block, either *ESE* Time Code™ or SMPTE/EBU-LTC Time Code (Time of Day only) or RS-232C ASCII Time Code. The **ES-971** automatically determines which code is being received. If the Time Zone option is ordered, a rear-accessible DIP switch is installed for this function. If receiving *ESE* Timer Code™ from a timer, the unit will display Minutes, Seconds.

Find us on Facebook

www.facebook.com/**ESEusa**

SMPTE-LTC TIME CODE DISTRIBUTION AMPLIFIERS

ESE introduces two SMPTE-LTC Time Code Distribution Amplifiers, the **ES-217/BNC** and the **ES-246/BNC**. They are both specifically designed to distribute time code throughout a Master Clock System to various types of equipment and displays that accept SMPTE-LTC time code. The **ES-217/BNC** provides 1 x 4 distribution housed in a small die-cast box. The **ES-246/BNC** offers a Quad 1 x 6 configuration in a single rack mount enclosure. All the inputs and outputs of the **ES-217/BNC** and **ES-246/BNC** are supplied on convenient BNC connectors. *ESE* also offers several other Distribution Amplifiers in multiple configurations to fit a variety of applications.