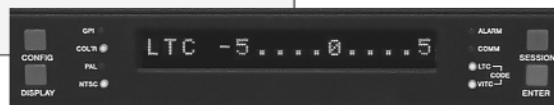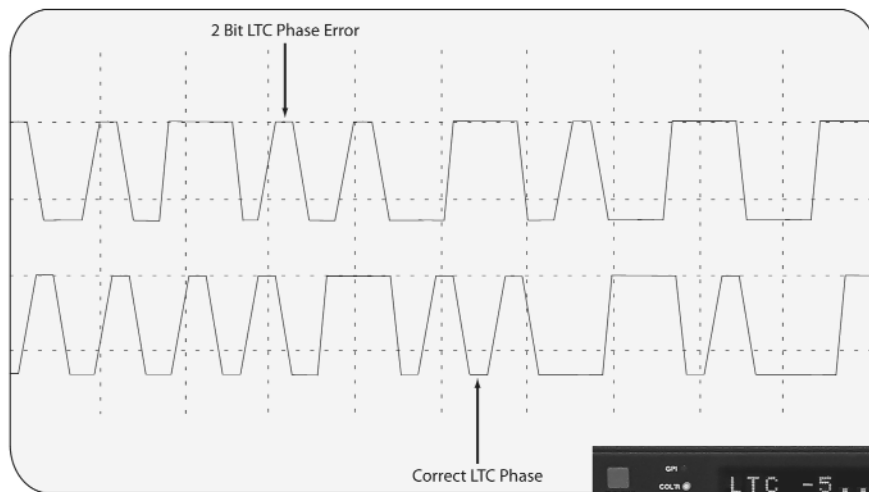# 5300
## Time Code Analyzer



The 5300 LTC/VITC Time Code Analyzer combines the latest LSI technology with sophisticated microcontroller firmware to provide a powerful, flexible time code analyzer system. The 5300 - an LTC/VITC reader/analyzer and multi-function character inserter - is an invaluable verification and troubleshooting tool for the Video, Audio and Film Post Production industries.

Its power and flexibility are unsurpassed in time code analyzer applications. A 16 digit alpha-numeric display can be quickly delegated to show the required data. The Time Code Analyzer contains an LTC and VITC reader that can be operated independently of each other, or can be linked to form an auto LTC/VITC reader.

### ▶Features & Benefits

- Detects time code counting sequence errors
- Detects color framing sequence errors with respect to a reference video input
- Detects changes in the status of the color frame input (changing phase, or color/non color changes etc.)
- Detects Time code dropouts and has a user-definable dropout length
- Compares LTC and VITC numbers and reports differences between them
- Displays on-screen reports of Time code problems
- Audible alarm plus a contact closure to drive an external alarm
- User-definable thresholds for most alarm conditions

- Error messages available on RS-232 port for computer logging and time code verification
- On-screen programming and front panel menus
- Dual standard PAL and NTSC
- Detects LTC phase problems with respect to video sync
- High resolution character inserter with three character sizes: 8, 16 and 32 lines, time and user bits separately positionable on screen
- VITC to LTC translator
- Regenerates incoming LTC to correct LTC phase problems



### ▶Specifications

**LTC Reader:**

| | |
|---|---|
| Standard: | SMPTE 12M-1 |
| | 25, 30Fps Drop & Non Drop Frame |
| Connector: | XLR Type 3-pin female connector |
| Signal Level: | 0.2 to 4V p-p, balanced or unbalanced |
| Speed: | 1/30th to 70x play speed, forward and rev, machine dependent |

**VITC Reader:**

| | |
|---|---|
| Input: | NTSC or PAL 1V p-p, |
| Connector: | BNC per IEC 61169-8 Annex A |
| Speed: | Still frame to < 40x play, VTR dependent |
| Connector: | BNC per IEC 61169-8 Annex A |

**Character Generator:**

| | |
|---|---|
| Input: | Char. Input from VITC Reader input |
| Output: | NTSC or PAL 1Vp-p + keyed high resolution characters, selectable background and sizes |
| Connector: | BNC per IEC 61169-8 Annex A |

**LTC Translator:**

| | |
|---|---|
| Connector: | XLR Type 3-pin male |
| Level: | Adjustable 0.5V to 4.5V p-p |
| Rise Time: | 40 ±10ms |
| Jitter: | < 2ms |
| Gen Lock: | Reader input video 1V p-p, Hi-Z, BNC loop |

**Parallel Remote Control:**

| | |
|---|---|
| Input: | 6 TTL compatible inputs for control of selected functions |
| Output: | 2 open collector general purpose outputs |

**Physical:**

| | |
|---|---|
| Dimensions: | 19" W x 1.75" H x 7.75" D (483mm W x 45mm H x 196mm D) |
| Weight: | 7lbs (3.5kg) |

**Electrical:**

| | |
|---|---|
| Voltage: | 115/230V AC, 50/60Hz, 30W |
| Safety: | ETL Listed |
| | Complies with EU safety directive |
| EMI/RFI: | Complies with FCC Part 15 Class A EU EMC Directive |

### ▶Ordering Information

| 5300 | Time Code Analyzer |
|---|---|