▶ Features & Benefits

- Generates time code in accordance with SMPTE 12M-1 locked to NTSC or PAL video or free run on internal crystal oscillator
- High resolution Character Inserter, with three Character sizes: 8,16 and 32 lines, time and user bits separately positionable on raster
- Reads LTC from 1/30th to 70x play speed
- Well proven input circuitry design permits reliable recovery of even severely distorted code
- Momentary or continuous Jam-sync modes
- · Time and user bits are presettable from the front panel
- RS-232 serial port permits interfacing to computers
- 25 Fps \leftrightarrow 29.97 Fps SMPTE drop frame time code translator mode
- Parallel control of commonly used functions
- · User bit Transfer from Reader Time or User bits
- On-screen programming menu
- Date/Time Zone may be encoded into user bits according to SMPTE 309M
- Generates and reads universal co-ordinated time (UTC) or local time in time/date mode
- · Automatic daylight saving time adjustment in time/date mode
- 2 General purpose outputs can be assigned to several output modes

Additional Features of the 5010-VITC

- · Vertical Interval Time code Generator and Reader
- · Separate genlock and PGM video inputs
- Set VITC Generator Line numbers from the front panel
- Translates LTC to VITC or VITC to LTC
- Reads VITC over the full shuttle range of most VTRs
- · Selectable reader line range
- · Optional Bypass Relay on VITC Generator

Additional Features of the 5010-24Fps

- Genlocks to 23.98 'slow PAL' or NTSC
- 23.98 Fps \leftrightarrow 29.97 Fps time code translator mode
- Momentary or continuous Jam-sync modes
- Locks to 6Hz reference in 24Fps mode

▶Time Code Feature Comparison

	5010-GPSII	5010-VITC-GPSII	5950	5010	5010-VITC
LTC Generator	V	V		V	V
Adjustable Output Level	✓	V		V	V
VITC Generator		V			V
LTC Reader	✓	V	V	V	V
VITC Reader		V	V		V
VITC to LTC Translator		V	V		V
LTC to VITC Translator		V			V
LTC Re-shaper			V		
PAL and NTSC	~	V	V	V	V
Color Framing	V	V		V	V
Drop Frame	✓	V	V	V	V
Set User Bits (0-9, A-F)	✓	V		V	V
Transfer RDR. Time or UB to GEN, UB	V	V		V	V
SMPTE ↔ EBU Time Code Translator				V	V
Date/Time Zone in User Bits	✓	V		V	V
Momentary and Continuous Jam Sync	V	V		V	V
Character Generator	✓	V	V	V	V
On-screen Programming Menu	✓	V		V	V
GPS Referenced Time Code	V	V			
Serial Remote Control				V	V
GPI Remote Control	V	V		V	V
GP Outputs	~	V		V	V

5010, 5010-24Fps, 5010-VITC, 5010-VITC-24Fps

Time Code Generator / Reader with Character Inserter

▶Specifications LTC Generator:

Standard: SMPTE 12M-1

NTSC 2/4 field; PAL 4/8 field menu

selectable

NTSC or 24Fps (5010-24Fps only) Output: 3-pin male XLR type

Level: Adjustable, 0.5V to 2V p-p

Rise Time: 40 ±10ms < 2ms

LTC Reader:

SMPTE 12M-1 Standard: Input: 3-pin female XLR type

0.2 to 4V p-p, balanced or unbalanced 1/30th to 70x play speed, fwd and rev, machine dependent Speed:

VITC Generator (5010-VITC & 5010-VITC-24Fps):

Comp. Video 1V p-p, 75Ω terminated Input: Outputs: 2 Comp. Video + keyed VITC

1 Output bypass relay protected when

+BP option installed

Differential Gain: Differential Phase: <0.5°

VITC Reader (5010-VITC & 5010-VITC-24Fps):

Comp. video 1V p-p, Hi-Z, BNC Loop

Speed: Still frame to > 40x play

Character Generator:

Comp. video 1V p-p, 75Ω terminated Output: Com. video 1V p-p + keyed high

resolution characters, selectable

background and sizes

Serial Remote Control:

RS-232/422 interface, 9-pin "D" connector

Computer control of all functions,

selectable baud rate

Physical: Dimensions:

19"W x 1.75"H x 7.75"D

(483mm W x 45mm H x 196mm D)

7lbs (3.5kg) Weight:

Electrical:

EMI/RFI:

Auto ranging 100-230V AC 50/60Hz Power:

30W

Safety: ETL Listed

Complies with EU safety directive Complies with FCC Part 15 Class A

EU EMC Directive

▶ Ordering Information

Time Code Generator/Reader

5010-24Fps NTSC/24Fps Time Code Generator/Reader Time Code Generator/Reader with VITC

5010-VITC-24Fps NTSC/24Fps Time Code Generator/Reader with VITC **Ordering Options**

Optional bypass relay for 5010-VITC, and 5010-VITC-24Fps

Analog Time Code