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

Time Code Generator / Reader with Character Inserter

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

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 ±10 ms
Jitter:	< 2ms

LTC Reader:

Standard:	SMPTE 12M-1
Input:	3-pin female XLR type
Level:	0.2 to 4V p-p, balanced or unbalanced
Speed:	1/30th to 70x play speed, fwd and rev, machine dependent

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

Input:	Comp. Video 1V p-p, 75Ω terminated
Outputs:	2 Comp. Video + keyed VITC 1 Output bypass relay protected when +BP option installed
Differential Gain:	< 0.5%
Differential Phase:	<0.5°

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

Input:	Comp. video 1V p-p, Hi-Z, BNC Loop
Speed:	Still frame to > 40x play

Character Generator:

Input:	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)
Weight:	7lbs (3.5kg)

Electrical:

Power:	Auto ranging 100-230VAC 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

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

Ordering Options

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