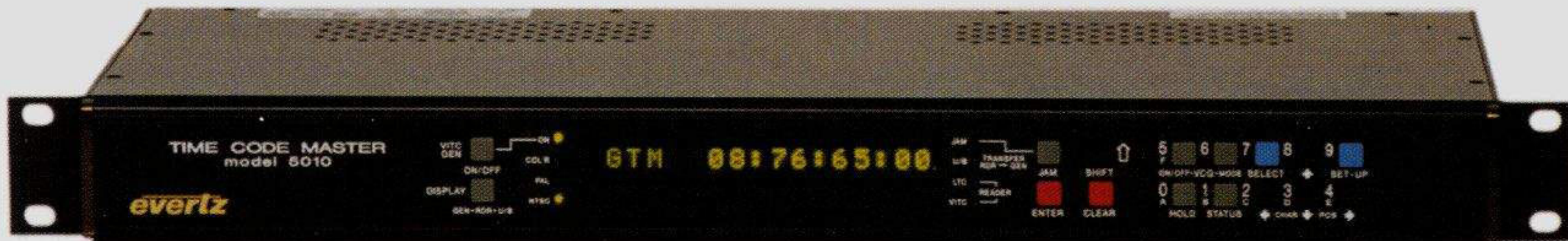# evertz

Models 5010 and 5010-VITC

Full Function Time code Generator/Reader
with Character Inserter

The Model 5010

Our best longitudinal Time code Generator and full speed Reader. A Video Character Generator with high resolution characters and on-screen programming menu is standard.

The 5010 has the features to provide you with the power and flexibility to meet your most difficult operational requirements. The 5010 can be ordered in two versions. Model 5010 is an LTC Generator, Reader, Character Inserter. The Model 5010-VITC comes complete with Vertical Interval Time code capability.

The Model 5010-VITC

The 5010-VITC has all the features of the 5010, but comes with VITC capability as well.

The Model 5010-VITC is a Time code Generator/Reader/Character Inserter for both Longitudinal and Vertical Interval Time code. As well as having the above listed 5010 features, the 5010-VITC also has other standard features.

Model 5010 Features:

- True Dual standard (NTSC and PAL). Generates Time code in accordance with SMPTE RS-170 or RS-170A, or EBU 4 or 8 field standards locked to video source.

- 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.

- Parallel control of commonly used functions.

- User bit Transfer from Reader Time or User bits.

- On-screen programming menu.

Model 5010-VITC Features:

- Vertical Interval and Longitudinal Time code Generator, Reader, Character Inserter.

- Separate gen-lock and PGM video inputs.

- Set VITC Generator Line numbers from the front panel.

- Key-pad lock-out to prevent inadvertent set up changes.

- Translates LTC to VITC or VITC to LTC.

- Reads VITC over the full shuttle range of most VTR's. Selectable reader line range.

Order Specification Information:

	5010GPSII	5010GPSII- VITC	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	✓	✓	✓	✓	✓
Colour Framing	✓	✓		✓	✓
Drop Frame	✓	✓	✓	✓	✓
Set User Bits (0-9, A-F)	✓	✓		✓	✓
Transfer RDR. Time to general. UB	✓	✓		✓	✓
Transfer RDR. UB to general. UB	✓	✓		✓	✓
Running Date in User Bits	✓	✓		✓	✓
Momentary and continue. Jam-sync	✓	✓		✓	✓
Character Generator	✓	✓	✓	✓	✓
On-screen programming menu	✓	✓	✓	✓	✓
GPSII Referenced Time Code	✓	✓			
Serial Remote Control				✓	✓
Parallel Remote Control				✓	✓

Specifications:

LTC Generator:
Standard: NTSC 2/4 field; PAL 4/8 field menu selectable.
Output: 3 pin male XLR type.
Level: adjustable, 0.5V to 4.5V p-p.
Rise Time: 40 +/- 10 usec.
Jitter: < 2 usec.

LTC Reader:
Standard: SMPTE, EBU Time code.
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.

GPS Receiver:(5010-GPSII optional)
Temperature: -30°C to +70°C.
Humidity: 95% R.H. Condensing at 60°C..
Dimensions: 5.8" D x 3.9" H (147mm x 100mm)
Cable Options:
.   Standard 50',
.   Optional 100'
.   (Optional 400' for GPSII only).
VITC Generator: (5010-VITC)
Input: Comp. Video 1V pp, Hi Z, BNC

loop(or second output).
Output: Comp. Video + keyed VITC.
Differential Gain: <0.5%.
Differential Phase: <0.5.

VITC Reader: (5010-VITC)
Input: Comp. video 1V pp, High Z, BNC Loop.
Speed: Still frame to >40x play.

Character Generator
Input(5010, 5010-VITC): Comp. video 1V pp, 75ohm terminated
Input(5950): Char. input from VITC Reader input
Output: Com. video 1V pp + keyed high resolution characters, selectable background and sizes

Serial Remote Control
5010 and 5010-VITC 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: 7 lbs. (3.5Kg).

Electrical:
Power: 115/230 V AC 50/60 Hz, 30 VA. ETL listed. Complies with EU safety directive

EMI/RFI:
Complies with FCC regulations for class A devices. Complies with EU EMC directive.