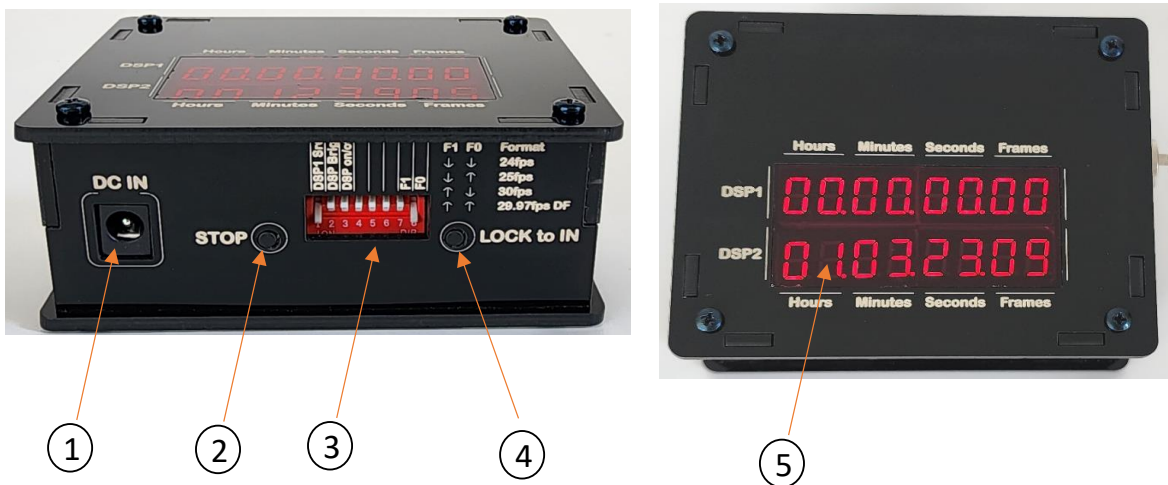


Katech MFTC-1 Multiformat Timecode Generator

Katech MFTC-1 is a module that generates timecode signal in multiple formats and outputs in LTC (Logitudinal Time Code) format. There are one timecode generator and two timecode decoders in the module. The 1st decoder decodes the internal timecode generator LTC output, and the 2nd decoder decodes the external timecode entered from the LTC input. The generated and externally entered timecode signals can be displayed at the same time, and if desired, they can be stopped and the difference between them can be seen. If desired, the internal timecode generator can lock on the timecode signal entered from INPUT.

Device Description



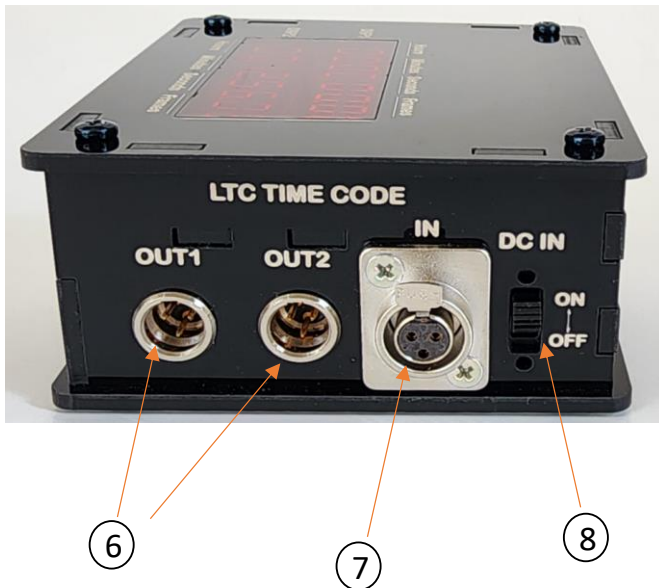
- 1) **DC IN:** 5V-12V (Center tip positive) It is used to charge the internal battery.
- 2) **STOP Button :** Freze DSP1 and DSP2 at the same time.
By pressing "STOP" button you freeze display and compare input timecode with generator time code difference
- 3) **DIPSwitch :** Operation setting DIPswitch

SW bit1	Swap inputs :	SW-up: Internal Generator to DSP1 , LTC Input to DSP2
		SW-down: Internal Generator to DSP2 , LTC Input to DSP1
SW bit2	Diplay Brightness:	SW-up: Low Brightness
		SW-down: High Brightness
SW bit3	Not used	
SW bit4	Not used	
SW bit5	Not used	
SW bit6	Not used	
SW bit7	Format	Longitudinal time code (LTC) balance ouput with 3Vpp with 24fps,
SW bit8	Format	25fps, 30fps, 29.97fps format selectable.

Simple selection of timecode format with dipswitch, no need to scroll through the menu.

SW bit7	SW bit8	Format
Down	Down	24fps
Down	Up	25fps
Up	Down	30fps
Up	Up	29.97fps Drop frame

- 4) **LOCK to IN Button :**
Sync to external LTC timecode connected to LTC IN by pressing to "LOCK to IN" button.
- 5) **DSP1, DSP2 :** 7 segment timecode display
Has got two row of 8 digit 7 segment LED display ; one for Input timecode, one for internally generated timecode. Source of the display can be swaped by DIPSW Swbit1



- 6) **OUT1, OUT2 connector**
Mini XLR Timecode output

Mini XLR pinout

Pin1	GND
Pin2	LTC+
Pin3	LTC-

- 7) **IN Connector**
Mini XLR Timecode input

Mini XLR pinout

Pin1	GND
Pin2	LTC+
Pin3	LTC-

- 8) **DC IN Switch**
Turns ON/OFF the module while battery operated.

TECHNICAL SPECIFICATIONS

Parameters	Values
Dimensions	114x45x87 mm
Weight	250gr
Battery weight	20gr
Battery type	16340 - typical 850mAh Li-ion
DC IN	5-12V
Battery Operation period	about 6 hours
Digit size	9.2x4.8mm
LTC IN	1-5Vpp , AC coupled.
LTC OUT	3Vpp, output empedance 75ohm (each LTC+, LTC-),AC coupled.
Display Type	7 segment LED

Operational Block Diagram

