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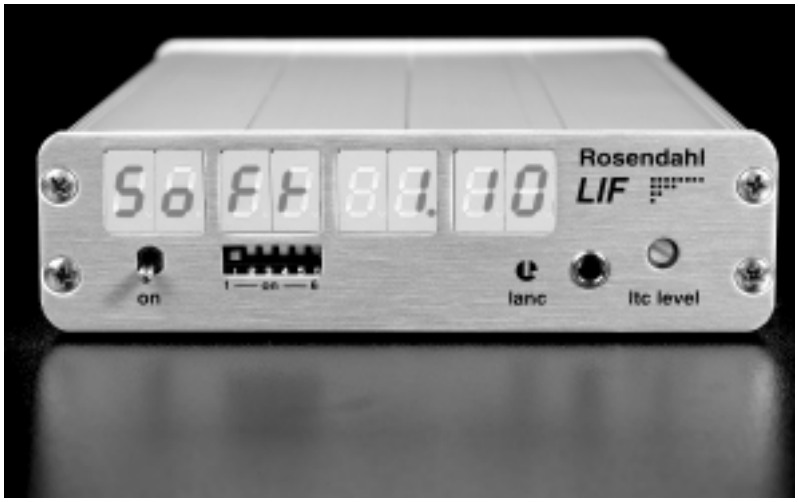
Time Code and Machine Control Interface for DV-VTRs and Camcorders

description

LANC (Local Application Control) is a Sony standard which communicates bidirectional machine control, time code and status data on a 2.5mm miniatur jack to jack connection. Sony as well as Canon DV-Camcorders and VTRs have the LANC port.
The LIF lanc interface converts the embedded time code into LTC and MTC simultaneously and also translates MMC or Sony P2 into LANC. „Batch digitizing“ with non linear video editing systems (Avid Media Composer, Fast 601, Tektronix Lightworks) can be performed direct from a DV-Camcorder or VTR.
A digital audio workstation (as Digidesign ProTools, Steinberg Nuendo, Soundscape R.Ed) can control the DV transport via MMC (midi machine control) and synchronize to the feed MTC.
The LIF outputs LTC & MTC in normal play operation and outputs MTC full messages & LTC bursts during jog/shuttle. This allows to cue up slaved tape transports and HD recorders for frame accurate spotting.
The VTR can be controlled manually or remoted by MMC (midi machine control) or Sony RS-422 Controllers.
The digital audio tracks of DV-VTRs are free for audio recording, because no LTC time code track is necessary.
The interface has a robust aluminium housing, a large 7-segment LED display and a built-in power supply. An optional rack-mount kit for fitting the unit into a 19“ rack is also available.



- Generates LTC and MTC from LANC embedded time code
- Translates MMC and Sony P2 commands into LANC
- Positional LTC and MTC-Full output during jog / shuttle
- Supports PAL and NTSC drop and non drop standards

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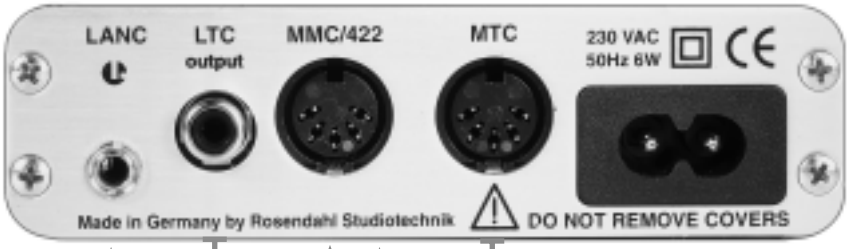
applications



MTC slave
MMC master

digital audio workstation,
midi sequencer,
mtc-automated mixer,
hard disk recorder

Sony P2 (RS422) controller

video editing system,
DAW software,
machine controller

LANC slave

Sony DV camcorder,
Canon DV camcorder,
Sony DV video
recorder / player,
Panasonic 5-pin with Vivanco
VCR 5050 interface

LTC time code slave

time code DAT,
hard disk recorder,
tape-based digital multitrack recorder,
automated mixer

specifications

LANC ports

2x 3,5 mm stereo jack, 5 Vpp bidirectional, synchronized UART, 9600 Kb/s

LTC output

RCA female, 0-3 Vpp adjustable, 500 ohms, positional time code output for cueing, 25, 29.97, 29.97 drop fps

MIDI output

5-pin DIN, The Complete MIDI 1.0, MTC quarter frame and full messages, MTC quarter loops, MMC locate, MMC responses

MMC input / RS422

5-pin DIN, opto isolated input 5 mA current loop (pin 4/5)
31.25 Kb/s as MMC input, 38.4 Kb/s as RS422, EIA RS422-A output, 38.4 Kb/s (pin 1/3)

Power

Euro two-pole, 230 VAC / 30 mA or 115 VAC / 60 mA version available

LED Display

8 x HP 7503, 6 mm (0,3“) red

Dimensions

11,4 cm W x 3,1 cm H x 16,8 cm D, 1U-19“ rackmount kit available,

Weight

0,7 kg

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