

16-Channel time, date, title generator

KTS-253-16LT

The KTS-253-16LT is a rack-mountable unit that can display the time, date and a 22-character alphanumeric title on up to 16 video channels.

The information can be stacked or placed on one line, and can be positioned on any of 11 rows. Text alignment options are left, right, or center justified. The time can be displayed in a 12- or 24-hr format - U.S. or European style. Each channel can have its own title.

The KTS-253-16LT's clock can derive its time from one of three sources: its internal crystal, the input power line frequency (50 Hz or 60 Hz), or a Global Positioning System receiver via ZDA and RMC date formats. Because the unit outputs the time and date in an RS422 serial format, the time and date can be superimposed on a Digiplex system's matrix switcher outputs.

The KTS-253-16LT buffers its video outputs from its video inputs, ensuring that the display information is placed only on the output signals. An internal battery guarantees accurate time for up to 10,000 hours after a power failure.

Specifications

Electrical

Input voltage	9 VAC
Input power	8 W
Input data signal	RS-422
Input GPS data	RS-422 compatible NMEA 0183 ver. 2.0 (\$GPRMC), 4800 baud
Output data	RS-422

Video

Inputs (16)	Composite video, 1 V pk-pk
Outputs (16)	Composite video, 1 V pk-pk
Format	NTSC or PAL (selectable)
Impedance	75 ohm, inputs and outputs
Bandwidth	7.4 MHz at -3 dB
S/N ratio	-72 dB
Differential gain	0.5%
Differential phase	0.5°
Channel cross talk	> -40 dB

Connections

Video	BNC connectors
Data	Six-position removable terminal strip
Power connector	9 VAC power jack

Alphanumeric display

On-screen display	28 characters by 11 rows
Camera title	22 characters, 1 line per channel
Title position	11 rows; aligned right, left, or centre justified
Time format	Hr.Min:Sec
Date format	Month/day/year, day/month/year (selectable)
Time/date position	On one line or stacked on any of 11 rows; aligned left, right, or centre justified (selectable)
Character size	10 horizontal x 14 vertical pixels

Clock

Reference	Internal crystal, 50 Hz AC line, 60 Hz AC line, external GPS (selectable)
Crystal accuracy	25 ppm
Time format	12 hr or 24 hr (selectable)

Mechanical

Weight	1.53 kg
Construction	1.3 mm aluminium
Finish	Dark grey powder coat

Options

External voltage (LT)	When 115 VAC power is not available, the KTS-253-16 can be ordered without the 115 VAC/9 VAC plug-in wall transformer. In this case, the installer must provide a 9 VAC or 12 VDC power source.
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Ordering Information

KTS-253-16LT	16-Channel time, date, title generator
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- Superimpose time, date and title information on up to 16 video channels
- Various time, date, and title display options
- Buffered video
- On-screen programming menus
- 22-character alphanumeric titles
- Internal crystal or local power line time reference
- GPS/Digiplex compatible
- Internal battery ensures continuous time
- NTSC or PAL video format