

## SR1245-SR1255

# Multi protocol Time Code display Ethernet IP, IRIGB, RS422



### Key features

- Display IRIGB, RS422 or Ethernet frame, time code
- Automatic selection of the available time source.
- Redundant operation according to multiple time sources
- Able to display 3 type of code : UT, CD (countdown) or HO (time of launch)
- Display chaining
- 2U height (89.08 mm) or 144 mm
- Brightness control
- Digital ETHERNET IP (new interface and protocol available on the TimeLink © SYNCHRO2 clocks),
- Digital RS422, (same protocol as above but received in RS422)
- IRIG-B (UT/CD/HO same time signals today broadcasted on the CNES/CSG BLA)

The display uses 6x7 LED segments for time with the format : HH :MM :SS LED and 4x16 segments LEDs for :

- The day of the year or the type : « UT », « CD » or « HO »
- One default mark : "\*"
- The sign + or - for the CD

**SR1245** and **SR1255** are robust and light time displays, that can be used in a rack or wall mounted. They come in two models:

- **SR1245**, 2U height, width 19', 80 mm depth, rack mount or wall mount. 7 red LED segments, 38 mm height, visibility > 15m.
- **SR1255**, 144 mm height, 660 mm width, 80 mm depth, wall mount. 7 red LED segments, 76 mm height, visibility > 30 m.

This multi protocol display is able to receives, processes and displays a TU/TD/HO time code, received in the following 3 formats :

To operate the display must be connected to the 230V AC sector source and get at least one of the following time source :

- IP frame : network link, network cable CAT5 with RJ45 standard connector.
- RS485 frame: digital link carrying the time frame, twisted pair cable with Sub'D 9 pins male connector.
- IRIGB signal (UT, CD or HO) : analog modulated signal, coax cable with BNC connector.



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The display automatically selects the time source available.

### Settings

Display setting is done using one serial RS232 link with the following characteristics : 115200 bauds, 8 bits, no parity, 1 bit stop. The link "Console" allows the direct connection with a PC. A software like Windows HyperTerminal or Linux/ Minicom is well suited for terminal setting.

The automatic operation of the display depends of the programmed configuration.

This configuration is stored in a non volatile memory of EEPROM type. It is restored when the display is powered On.

Brightness is adjustable with 10% steps. The setting is done using two push buttons « + » and « - » located on the rear face. The setting is automatically memorized.

### Code type

The choice of code type TU/CD or H0 is done with a push button . One press move to the next code. The display always shows the code type selected during changing.

The code type could be displayed or not. If displayed it takes place of the "day of the year" (UT and CD°)

The selection of the displayed time is common for all the interfaces. The frames received from Ethernet or RS232 are carrying the 3 times. Instead IRIGB is only dedicated to one time.

### Selection of the time source

The selection of the entry time source is done automatically. The processor received the times coming from the 3 possible sources : network, RS422 and IRIGB.

If several sources are active, the « PTY » parameter witch fix the priority between the sources is used. This allow to automatically manage the redundancy of the system.

### Displays chaining

The RS422 output allows to chain the displays. The RS422 output is always generated whatever the type of the received frame. The display is acting as IP converter to RS422 or IRIGB converter to RS422.



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### Interfaces

Console : Standard : RS232 - 3 threads Connector : Sub'D 9 pins female

Ethernet Network: Standard : Ethernet 10/100 Mbs, RJ45 connector.

Input/output RS422 : Standard : RS422 / RS485connector: Sub'D 9 pins female

IRIGB input: Standard : IRIG B. 1 KHz carrier, amplitude modulated 1/3 : 1/1: BNC connector.

### Dimensions

Width 19", height 2U, depth 80 mm. Rack mount, or wall mount (mechanical adaptor provided); Weight 2 Kg.

144 mm height, 660 mm width, 80 mm depth, wall mount. Weight : 4 Kg.

### Consumption

20 W (SR1245), 25 W (SR1255)

MTBF = 85 000 h

### Options-specific requirements

On request the SR12XX displays are able to operates with specific time codes (specific IRIGB frames, UT+CD frames, etc...)

Don't hesitate to contact us for any requirements.