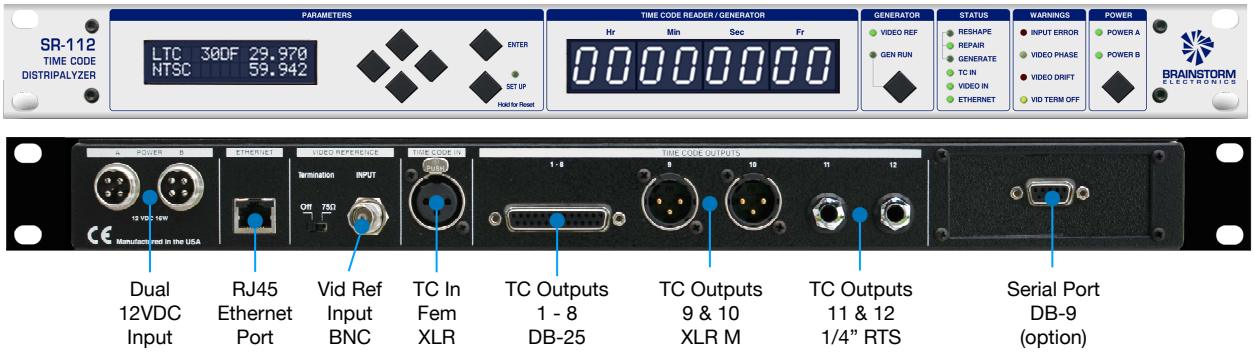
SPEC SHEET

Time Code Distripalyzer SR-112



The **SR-112 Time Code Distripalyzer** reshapes and distributes timecode through its 12 outputs, sending it over long lines with no signal degradation. It analyzes the source for quick diagnostic and, with the TCG option, generates or repairs timecode, locked to video if required.

Being able to send time code over long lines is extremely valuable in live applications. With its large front panel reader and its analyzer that eliminates downtime by identifying problems quickly and accurately, the rugged 1U 19" rack unit has become a standard for show control.

FEATURES

- 1 x 12 Time Code Distributor/Reshaper
- Sends Time Code over long cables with no degradation
- Eliminates amplitude distortions
- Includes a Time Code Analyzer for quick diagnostic
- With TCG option, repairs and generates time code
- Remote control via web browser
- Dual DC power sources for redundancy

OPTIONS AVAILABLE

- **TCG**: Time Code Generator (firmware). Generates and repairs faulty time code.
- **SP/SR112**: Serial Port (hardware). Enables remote control of the TCG via serial commands.

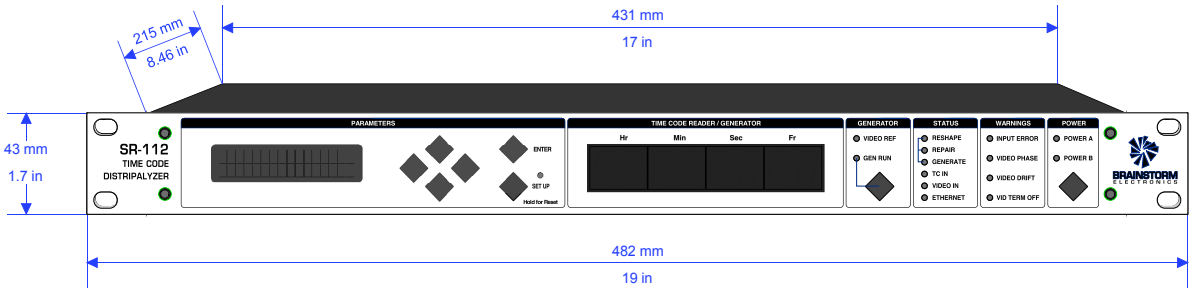
APPLICATIONS

- Show Control (live shows)
- OB truck
- Post-Production

TECHNICAL SPECIFICATIONS

Time Code Distributor	1 x 12	
Input Signal	SMPTE / EBU Longitudinal Time Code (LTC)	
	Impedance:	20KΩ bal.; 10KΩ unbal.
	Level:	Min: -30dbU; Max: +20dbU
Output Signal	Waveform:	switchable rise times:
		• 1us (square)
		• 25us (SMPTE)
		• 50us (EBU)
	Impedance:	600Ω bal.; 300Ω unbal.
	Level:	adjustable: full off to +8dbU bal.; to + 2dbU unbal.
	Amplitude Distortion:	less than 2%
Video Reference Input	Accepts all standard SD & HD video sync formats	
	Used by the analyzer to report proper alignment of the time code source	
	Used by the TCG (option) to properly align the generated or repaired output	
Status LED's	• Reshape	
	• Generate (TCG option required)	
	• Video In	
	• Repair (TCG option required)	
	• TC In	
	• Ethernet	
Warning LED's	• Input Error (red)	
	• Video Drift (red)	
	• Video Phase (yellow)	
	• Video Termination Off (yellow)	
Time Code Reader	The 8 digit LED Display indicates hours, minutes, seconds and frames.	
	The display also flashes error descriptions when detected.	
Generator Modes (option)	GENERATE	Generates any TC format locked to Internal or Video Reference
	REPAIR	• Copy: the generator continuously copies the time code input
		• Jam: input TC is transferred 1 time, then same as generate mode
		• Show: for live shows - no frames are skipped or duplicated
Serial port (option)	Enables the TCG to be controlled by serial commands	
LCD Display	32 carachter LCD display (16 x 2)	
	Status pages:	• TIME CODE IN: Format and rate
		• VIDEO FORMAT: Format and rate of the video reference
		• USER BITS: Displays the User Bits and the User Bits type
		• VIDEO PHASE: time code/ video reference - in degrees
		• TIME CODE ERRORS: List of errors w/ TC address
	Set up Mode:	Menus for setting the device's parameters
Connectors	Time Code input:	XLR Female (x 1)
	Video Ref input:	BNC with 75Ω termination switch (x 1)
	Time Code outputs:	DB25 (1x) - Tascam/Avid analog pin configuration: outputs 1-8
		XLR Male (2x): outputs 9-10
		1/4" jacks (2x) - TRS: outputs 11-12
	Ethernet:	RJ45 jack (x 1)
	Power:	Circular 4-pin male GX12 with thread for female socket (x2)
	Serial Port (option)	DB-9

Power	Dual, redundant: 12 VDC @ 3A (external power supply)
	Power Usage: Typ: 12 Watts / Abs. max: 19 Watts
Dimensions (w x d x h)	19 x 8.46 x 1.70 in (482 x 215 x 431 mm)
Weight	3.31 lbs (1.50 kg)
Enclosure	Chassis: Metal, black finish
	Faceplate: Machined aluminum
	Mounting: 1 RU 19” rack-mountable



SPECIFICATIONS STATEMENT

The device shall be able to reshape and distribute SMPTE/EBU longitudinal time code (LTC) through a minimum of 12 balanced outputs. The level of each output shall be individually adjustable from full off to +8 dbU. The reshaper shall eliminate level fluctuation and amplitude distorsions.

The device shall have a balanced input for the external source of time code and accept input levels ranging from -30 dbU to +20 dbU.

The device shall have a BNC input for an external video reference and accept all standard SD & HD video sync.

The device shall also be able to report the phase between the incoming time code and the external video reference in degrees, to report time code errors including discontinuities, jumps, repeated frames and drop-outs as well as drift relative to the video reference and include a frequency counter displaying the rate of the time code.

The device shall be able to generate new time code at all the standard formats and rates, including pulled-down rates and lock to an external video reference.

It shall also be able to repair existing time code by regenerating over drop-outs and discontinuities or have a mode where jamming source time code can only occur under specific user-defined circumstances.

The device shall be able to regenerate time code with an offset .

Configuration and monitoring of the device’s parameters shall be accessible through a graphical user interface (GUI) viewed with a browser via embedded web pages.

Either of the two power sources shall be able to power the device and they shall each act as a redundant source in case of failure of the other.

The device shall be housed in a 1U 19” enclosure.