

DCODE[®] TS-C



The Denecke TS-C is a compact full featured smart slate, capable of reading, generating and displaying SMPTE/EBU time code. Its new compact size makes the TS-C ideal for documentary work, insert shots, or anywhere a big slate is too cumbersome. The TS-C jams to all standard frame rates, including 23.976 for HD. User Bits are set automatically when jammed to an external time code source. The TS-C reads and displays off speed time code used in special situations such as music video playback. The time code reader mode works with both ascending and descending time code. The time code reader can also be configured as a "+1 frame reader" to display the time code in real time (not a frame late). The TS-C is the first Denecke product to support Aaton serial communication! The precision TCXO combined with a 16 BIT microprocessor ensure extremely low drift and high accuracy. The standard EL backlit face plate is helpful in low light situations. Your choice of black and white or color clapper sticks.

- Aaton serial communication via 5 pin Lemo plug.
- Electro-Luminescent (EL) backlit face plate.
- Light weight— under 2 lbs. with batteries.
- 1/3 smaller than the TS-3.
- Display intensity variable in 12 steps.
- 16 Bit Flash microprocessor produces greater accuracy and allows for future firmware upgrades.
- Auto set to incoming frame rates.
- Battery voltage and low battery warning readout.
- Re-jam without powering down.
- Sliding access door to controls and quick load battery pack.
- Sync error warning of different frame rates.
- Choice of Black & White or Color clapper sticks.

SPECIFICATIONS

Size:	5.00" x 8.25" x 1.24"
Weight:	1.90 lbs. with batteries
TCXO:	±1 ppm @ -30° to +75° C Typical ±0.2 ppm @ 23° C
Input:	-15 db at 4.7k.
Ext. Power:	5.7v to 16v DC
Battery Pack:	6 alkaline "AA" batteries.

[Note: Remove batteries when using external power!]

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There are two ways to jam sync the TS-C. The first way is to feed an external time code source (via the 1/4" jack or LEMO) while the TS-C is off. Use the rotary switch to select the desired frame rate. Set the run/read toggle switch to run (up) and turn the slate on. The TS-C will lock to the external source. The second method is simpler. Select the desired frame rate as before and turn the slate on. While the slate is running, close the sticks, feed the external time code source to the TS-C, and press the display brightness up button. The slate will lock to the external source. This new feature saves the user from having to power down the slate to re-jam. A handy feature when the power switch is concealed in the battery compartment!

Using the TS-C with Aaton serial communication is very simple. Connect the LEMO plug from the master source to the LEMO input on the TS-C. Send the serial data from the master. The TS-C automatically enters the serial data mode and jam syncs to the external ASCII source. The frame rate is dependent on the frame rate rotary switch. To check for drift, simply send the serial data from the master and the TS-C automatically sends its current time data to the source.

The display brightness is controlled by two push buttons located on the back side upper right corner. Pressing the up button increases the display brightness and pressing the down button decreases the brightness. The display brightness has 9 steps.

MODES

Time Out: Display times out when sticks are left open.	EL Backlight: Enable/disable in low brightness.
Feed Alert: Reminds you when to jam.	Hold Clap Frame: Displays the last time code after the user bits.
Jam Lock: Inhibits running time code without jamming.	Plus 1 Frame Reader: Time code is displayed in real time when in read mode.
Flash Frame: Changes intensity to ensure exposure.	Scroll back: Push Set button while sticks are closed to display scroll back of previous claps. Scroll back memory is cleared at power off.

The mode switches are concealed behind the sliding battery door on the side of the slate

To set modes, turn the power off and place the rotary switch in position mode A(7) or B(6). Turn power back on and the selected mode will display. Use the rotary switch to cycle through available functions. The display shows the function and status. To select the desired mode put the run/read switch in run (on) or read (off). Push the set button to enable or disable the chosen function. Use Mode B(6) to set the value of the selected function. Pushing the button will display the desired value. When all of the desired modes are set go to "Return"(0) and push the set button. The display will run.

[NOTE: the letter "M" is written as "n" on the 7 segment display.]

Mode "A" selects the mode while mode "B" selects the value of the selected modes. All setup information is displayed on the LED readout. To reset to default (all modes off), go to mode B(6), select Dflt(3), run/read switch in run (on) , and push the set button. Set will light and all functions will reset to the default values.

SET UP CHART

DISPLAY

<u>Version 1.3</u>	<u>Mode A</u>	<u>Mode B</u>
0) Start	Return	Return
1) Time out/Display	Tout on/(off)	15,30,(60),120 Seconds
2) Feed warning in UB	Feed "	2,(4),6,8 Hours
3) Jam lock	Jloc "	Dflt (Set)
4) Flash held frames	Fish "	1,(2),3,4,5 Frames
5) Hold clap frame	Hold "	(5),15,30,60,120 Seconds
6) EL backlight	EL (on)/off	node* B
7) -	node* A	-
8) Plus 1 frame reader	Pls1 on/(off)	-
9) -	-	-

* Note: M is displayed as n on the 7 segment display.

Default settings indicated by parenthesis.

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