DCODE® TS-C

- Aaton serial communication via 5 pin Lemo connector.

- 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. Each step is precisely equal to 1/2 f-stop in exposure.

- 16 Bit Flash microprocessor produces greater accuracy and simplifies future firmware upgrades.

- Ability to auto set to incoming frame rates.

- Battery voltage and low battery warning readout.

- Re-jam without powering down.

- Sliding access door to controls and improved quick load battery pack.

- Sync error warning of differing frame rates.

- Choice of either B&W or Color clapper sticks.

The Denecke TS-C is a compact full featured smart slate, capable of reading, generating and displaying SMPTE/EBU LTC time code. Its' new form factor makes the TS-C ideal for documentary work 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. In manual set mode, frame rates can be cross jammed. Auto set mode automatically jams to the same frame rate as the incoming time code. In time code reader mode, both ascending and descending time code are read. The TS-C reads and displays off speed time code used in special situations such as music video playback. 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 protocol. A high precision TCXO is combined with a 16 bit microprocessor, ensuring both extremely low drift and high accuracy. The standard EL backlit face plate is very useful in low light situations. The new Denecke TS-C compact slate is affordably priced. Your choice of black and white or color clapper sticks.

SPECIFICATIONS

Size:	5.00" x 8.25" x 1.24"
Weight:	1.90 lbs. with batteries
TCXO:	Typical ±0.2 ppm @ 23° C ±1 ppm @ -30° to +75° 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!]

There are two ways to jam sync the TS-C: First is to feed an external time code (via the ¼" jack or LEMO) while the TS-C is off. Select the desired frame rate with the rotary switch. Set the run/read toggle switch to run (up) and power the slate on. The TS-C will jam to the external time code. Second is with the desired frame rate selected, and the slate already on. While the slate is running, close the sticks, and with external time code fed to the TS-C, press the display brightness up button. The slate will automatically jam to the external time code. With this new feature, powering down the TS-C to re-jam is not required.

Aaton serial communication with the TS-C is very simple. Connect the LEMO plug from the master 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 master. Frame rate is dependent on the frame rate rotary switch setting. To verify time code, simply send the serial data query from the master and the TS-C automatically returns its current time data.

Display brightness is controlled by two push buttons located on the back panel's upper right corner. Pressing the up button increases the display brightness and pressing the down button decreases the brightness. The display brightness has 12 steps, each increment is exactly 1/2 f-stop and the adjustment range is 6 full f-stops.

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 located behind the sliding battery door on the side of the slate

To set mode functions, switch off power and place the rotary switch in position 7 for mode A or position 6 for mode B. Switch power 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 status place the run/read switch in run (on) or read (off) position. Push the set button to capture the chosen function. Use Mode B(6) to set values for the selected function. Pushing the set button will display and increment the value. When the desired modes are set, switch to "Return"(0) and push the set button. The display will run.

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

Mode "A" selects the mode status while mode "B" selects the mode value. 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

Version 1.6	Mode A Status	Mode B Value
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	Flsh "	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.