

# DTT

## Digital Time / Date Titler

### Operation Manual

NTSC / PAL Format

12 / 24 Hour Time

7-24 V AC/DC

### Programming

The **DTT** is programmed by sequencing through the prompts with the **Select** button, then altering the on-screen information using the **Up** and **Down** buttons. When a portion of the on-screen information is selected, it will flash; this indicates that it may be altered using the **Up** and **Down** buttons.

- 1) Press the **Select** button to begin programming. The **Setup** indicator (**Green LED**) will light, and the first character of the 20 character titler will begin flashing.
- 2) Use the **Up** and **Down** buttons to scroll through the available characters.
- 3) When the desired character is displayed, select it by pressing the **Select** button. This will set the selected character and move the cursor to the next character to the right.
- 4) Repeat the above steps until all characters have been set as desired.
- 5) To return to a previously set character, press and hold the **Select** button and use the **Down** button to sequence in reverse order.
- 6) When the on-screen information is set as desired, press the **Select** button to exit the program mode. This will cause the **Setup** indicator ( **Green LED**) to turn off.
- 7) The on-screen information may be placed in any vertical position simply by pressing the **Up** and **Down** buttons. The display cannot be moved horizontally.

### Display Format

The on-screen information consists of two lines:

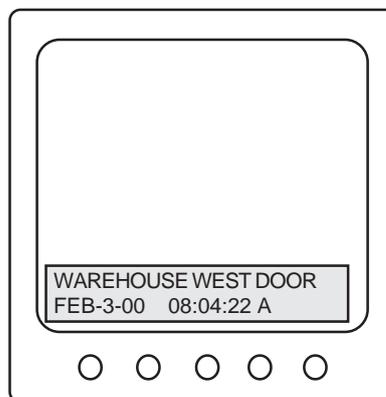
Line 1 contains 20 characters of titling

Line 2 contains date, month, year, hours, minutes, seconds, (AM/PM).

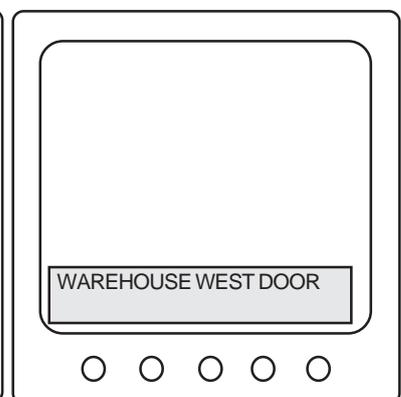
ABCDEFGHIJKLMN**OPQRST**  
MMM-DD-YY HH:MM:SS A

### Legend

- A-T:** 20 characters of titling  
**DD:** Date (i.e. 1-31)  
**MMM:** Month (e.g., JAN, FEB)  
**YY:** Year (e.g., 99, 00, 01, 02)  
**HH:** Hours (0-12) or (0-24)  
**MM:** Minutes (00-59)  
**SS:** Seconds (00-59)  
**-:** Power Failure Indicator



**DTT shown with Optional Character Background**



**NTD Titler Only shown with Optional Character Background**

## Video

The **DTT** will pass video through even when the power fails or is intentionally interrupted. This unit works with both monochrome and color signals with no signal degradation. An optional opaque background is internally jumper selectable. Selecting NTSC or PAL is also internally jumper selectable.

## Power Failure Indicator

An interruption in the **DTT** power supply is indicated by a dash (-) on the display, after the seconds indicator. If power has failed at any time, the dash will appear, and will remain on-screen until cleared. It is cleared by resetting the time.

**Note:** The Power Failure Indicator will appear when the unit is powered-up for the first time, but will clear once the proper time has been set. If the power has failed and the back-up capacitor has discharged completely, the **Power** indicator (**Green** LED) will flash, prompting you to set the correct time.

## Specifications

### Video

Video Input / Output      BNC - 2 passive video loop-through  
 Video Format                    NTSC/EIA or PAL/CCIR 1 Volt P-P 75 Ohm Term.

### Display

Titler Format                    20 Alpha-Numeric Character (NTD - Titler Only)  
 Date-Time Format                MMM-DD-YY HH:MM:SS A (A-AM, P-PM) 12Hr  
 (Options)                        MMM-DD-YY HH:MM:SS                    24Hr  
     DD-MMM-YY HH:MM:SS                    24Hr  
     YY-MMM-DD HH:MM:SS                    24Hr  
 Clock Accuracy                5 ppm  
 On-Screen Width                75% of active display width  
 Character Height                18 lines (5.8% of total image height)

### Control / Programming

Control Interface                3 Front Panel Buttons: Select, Up, and Down  
 Status Indicators                2 front panel LEDs: Power (Green), Setup (Red)

### Back-Up Battery

6 Months Internal, rechargeable NiMH battery

### Warranty

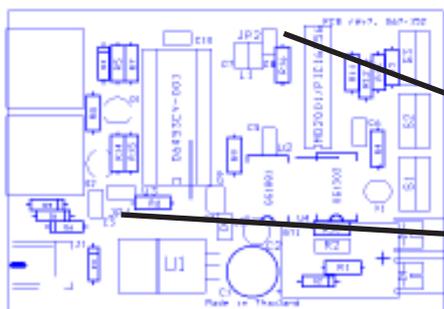
2 years parts and labor

### Size / Weight / Power

Size                                3 3/8" D x 2 5/8" W x 1 1/8" H  
     85mm D x 62mm W x 30mm H  
 Weight                            12 oz / .34 Kg  
 Power                             7 - 24 V AC/DC @ 32 mA  
     2.1mm x 5.5mm DC Power Connector  
     Center Positive



Polarity for DC  
 No Polarity for AC



JP2 ON PAL  
 OFF NTSC

JP1 ON Border  
 OFF No Border