

Quick Setup Instructions

UDC-5212 and DTD-5225 Digital Clocks

Please refer to your *UDC-5212 and DTD-5225 Digital Time/ Date Display Clocks Installation and Operation Manual, Edition D* for more detailed information.

Pre-Setup Inspection and Verification

1. Inspect the UDC-5212 product for missing parts and for transit damage immediately after unpacking. If possible, retain the original packing materials for re-use in the event of further shipment of the equipment.
2. Verify that the AC line voltage for your installation matches the voltage printed on the chart on the rear of the UDC.
3. Verify that the operating configuration indicated on the back of the clock (Slave or Master) is correct for your installation. If there is no indication, the unit is configured for Slave operation. For information about how to change the Master/ Slave configuration, see your *UDC-5212 and DTD-5225 Digital Time/ Date Display Clocks Installation and Operation Manual, Edition D*.

Setup

Selection of the clock control modes are set using six rear panel DIP switches. Each DIP switch has a left and right position setting that correspond to a control mode selection. [Figure 1-1](#) illustrates the DIP switch positions.

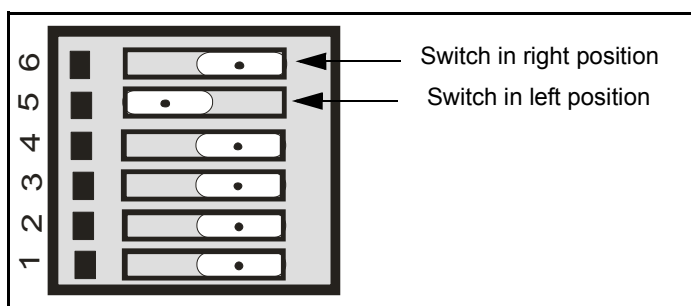


Figure 1-1. DIP Switch Positions

DIP Switch Configuration

Use a pointed object to press and set the various DIP switches to make the following control settings.

1. Setting the UDC/DTD to Clock Mode or Timecode Reader Mode

Using DIP Switch **6**, you can set the UDC/DTD to operate in either clock mode or Timecode Reader mode.

- **Clock mode** The UDC/DTD reads timecode input and displays it as a clock reading (meaning only incrementing values).

To set the UDC/DTD to Clock mode, set DIP switch **6** to the right position. To set a secondary reference source for the clock, see [“4. Setting the Clock Secondary Reference Source”](#).



Note

The timecode input must be continuous and increasing in value (counting up). If the timecode source fails, the UDC automatically switches to the secondary reference (set by switch 4), and continues to keep time while the colon LEDs flash twice per second.

- **Timecode mode** The UDC/DTD directly displays the timecode input source (meaning both incrementing and decremented values).

To set the UDC/DTD to Clock mode, set DIP switch **6** to the left position.



Note

If the timecode source fails, the UDC/DTD maintains the last value and turns off the colon LEDs.

2. Setting the Output Timecode Format

If the UDC/DTD is configured to operate as the Master (as indicated on the back of the clock), meaning that it can be used on Timecode Generator mode, you can use DIP switch **5** to select the output timecode format. If your UDC/DTD is configured to operate as the Slave, see [“3. Setting the Perimeter LED Operation”](#).

- **SMPTE** Outputs SMPTE (non -dropframe) timecode. To use this format, set DIP switch **5** to the left position.
- **EBU** Outputs EBU timecode format. To use this format, set DIP switch **5** to the right position.



Note

To use the UDC/DTD in Timecode Generator mode, you must set DIP switch **2** to **RUN ON SECONDARY** (right position).

3. Setting the Perimeter LED Operation

If the UDC-5212 is configured to operate as the Slave (as indicated on the back of the clock), you can use DIP switch **5** to select how the perimeter LEDs display seconds.

- **SMPTE** The second LEDs single-step, with only one LED illuminated per second. To use this type of LED display, set DIP switch **5** to the left position.
- **EBU** All second LEDs from the current second down to the zero second are illuminated. To use this type of LED display, set DIP switch **5** to the right position.

4. Setting the Clock Secondary Reference Source

If the UDC/DTD is set to Clock mode, you can use DIP switch **4** to select the secondary reference source. If the timecode source fails, the UDC/DTD will use the secondary reference as the time source. You can select a secondary reference from one of the these two options:

- **INTERNAL** The UDC/DTD uses its internal crystal oscillator as the clock reference source.
- **LINE** The UDC/DTD uses the AC power line frequency as the clock reference source.

To select this option, set DIP switch **4** to the left position.

To select this option, set DIP switch **4** to the right position.

5. Enabling Timecode Auxiliary Offset

Using DIP switch **3**, you can enable a user-programmed auxiliary offset from the input timecode user-bits. To use this option, the input timecode source must come from a MTG-3901, CSD-3901/3902, or CSD-5300 clock system driver.

To enable the timecode auxiliary offset, set DIP switch **3** to right position. To disable the timecode auxiliary offset, set DIP switch **3** to left position.

6. Setting LED and Date Display

Using DIP switch **2** you can select options for the LED and date display.

- **NORMAL** When using the this setting, if the input timecode source fails, the colon LEDs flash twice per second.
- **RUN ON SECONDARY** When using this setting, if the input timecode source fails, the colon LEDs stop flashing. If the timecode source is a MTG-3901, CSD-3901/3902 or CSD5300, the UDC/DTD displays the date.

7. Setting 12 Hour or 24 Hour Display

Using DIP switch **1**, you can set the UDC/DTD display to either 12 hour or 24 hour display.

- **12 HOUR** When in Clock mode, the clock displays time in A.M. and P.M time convention. When the clock is in Timecode Reader mode and DIP Switch **2** is set to the left position (**NORMAL**), the clock displays timecode as HH:MM:SS. When the clock is in Timecode Reader mode and DIP Switch **2** is set to the right position (**date if code is present**), the clock displays timecode as DD:MM:YY.

To select this option, set DIP switch **1** to the left position.

- **24 HOUR** When in Clock mode, the clock displays time in 24 hour time convention (00—23 hours). When the clock is in Timecode Reader mode and DIP Switch **2** is set to the left position (**NORMAL**), the clock displays timecode as MM:SS:FF. When the clock is in Timecode Reader mode and DIP Switch **2** is set to the right position (**date if code is present**), the clock displays timecode as MM:DD:YY.

To select this option, set DIP switch **1** to the right position.

Setting Digit Brightness

- Using the UDC/DTD multifunction buttons, you can change the UDC/DTD digit brightness. To change the brightness by one level (of 16), hold either the **CW** or **CCW** and the **MANUAL SET** buttons simultaneously. You can adjust the brightness of the second and marker LEDs through the two holes on the rear panel.