



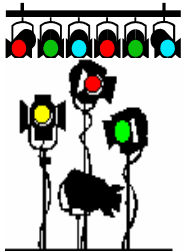
TCM-4020



**Total
Show Control**



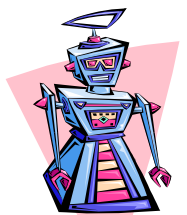
**Video
Playback**



**DMX
Lighting Control**



**Video & SMPTE
Time Code
Gen/Rcvr**



**Animatronics
Control**



**Digital Audio
Playback
& Control**

Media Pro[®] 4000

TCM-4020

Time Code Module

The TCM-4020 allows Cues and Animation to track SMPTE Time Code for synchronized applications. Any number of modules can be added to provide synchronization of numerous Cues and Real Time Animation data to multiple sources of SMPTE. In addition, external video can be connected to the TCM's video sync input to provide SMPTE phase locked to external video devices.

Standard TCM-4020 Features

- ◆ Simultaneous SMPTE Generator and Receiver
- ◆ LED Display of Time Code and User Bits
- ◆ Transformer Isolated Input and Output
- ◆ Controllable from Cue Events
- ◆ Used to Synchronize Cues and Animation to SMPTE

The TCM-4010 & TCM-4020 have different field wiring connectors. The TCM-4010 has individual discrete connectors, and the TCM-4020 has a single DIN48 permitting board removal without manual disconnection of field connector.



TCM-4020

Media Pro® 4000 TCM-4020 Time Code Module

TCM-4010 shown

Eight Digit LED Display Shows Time Code in Hours, Minutes, Seconds and Frames or displays User Bits

Two Position Toggle Switch Selects Time Code or User Bits Display Mode

Two Position Toggle Switch Display of Received or Generated Time Code

Red LED Indicates User Bit Display

Red LED Indicates Time Code Display

Red LED Indicates Board is Generating SMPTE Time Code

Red LED Indicates Board is Receiving 30 Fps SMPTE Time Code*

Red LED Indicates Board is Receiving Valid Time Code

Red LED Indicates Forward Advancing Time Code*

Red LED Indicates Drop Frame*

Red LED Indicates Time Code Framing Error*

*Indications applicable to input Time Code only

TCM-4020 has a single DIN48 permitting board removal without manual disconnection of field connector.

BNC Connector - VSYNC IN

1/8" Jack - Time Code IN

1/8" Jack - Time Code OUT

Time Code Output Level Control

Two Transformers Isolate Time Code IN and OUT

Din 41612 type "C" 96 Pin DIN Connects directly to the Media Pro® Backplane

Solid Red LED Indicates Module is in Download Mode

Slow "Blinking" Green LED = Module Processor Running
Fast "Blinking" Green LED = Module is Communicating

Complete documentation is available for downloading at our Web site or by contacting our offices.