



CB Electronics
Specialists in
Timecode, Bi-Phase & Serial Control

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Video Streamer

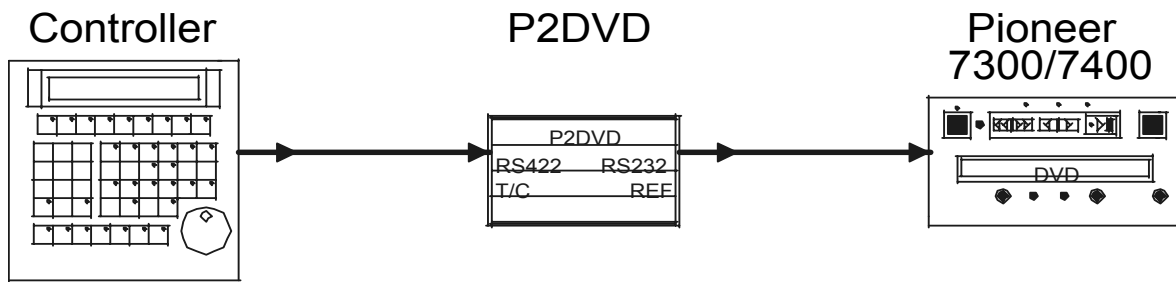
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P2DVD Pioneer DVD-V7300D/V7400D RS422 Machine Control Interface

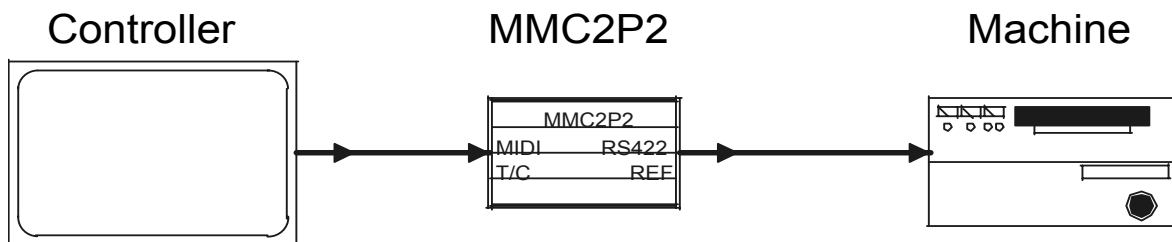


- **RS422 Input**..... For use with Consoles, DAW or Synchronisers
- **Timecode Output** From frame-count or timecode on audio track
- **Timecode Input** Convert continuous or single burst of timecode on Audio track to RS422
- **PAL/NTSC**..... One machine only
- **Low Running costs** 30,000 Hours MTBF, No expensive heads to replace
- **DVD, RS422, LTC Reader, Video Indicators** Self Test

The Pioneer V7300D DVD is a well proven industrial DVD player with two unique features, 1) Lock to external video syncs, 2) RS232 Control. The combination of the P2DVD interface and the Pioneer DVD player can replace U-Matic's and Beta's as a controllable picture source. The advent of consumer DVD recorders to make copies in the transfer bay makes DVD as simple to use as Beta or U-Matic. The DVD provides the advantages of Hard disk, low maintenance cost, and instant access with the picture quality and portability of tape.

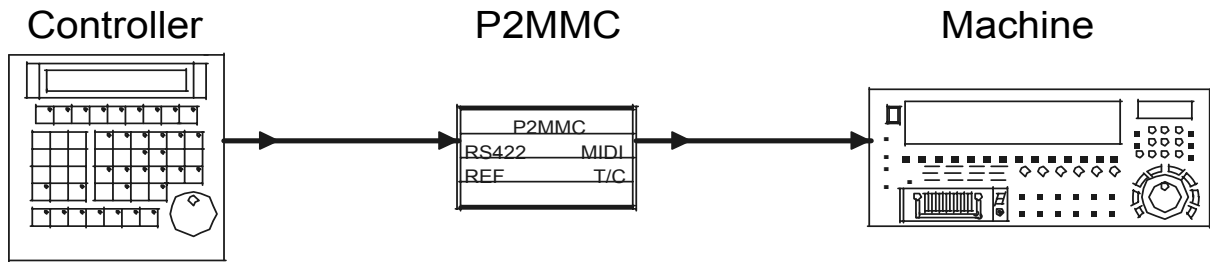
The P2DVD Interface may be used as a RS422 controlled Master with most RS422 synchronisers, Digital Audio Work-stations and Console automation systems.

MMC2P2 Midi Machine Control Interface - RS422 Sony protocol



- Record and Record Track Arming Muti-Track/Vided A1&A2 arming passed to machine
- MMC Input..... For use with Consoles, DAW or Video Editorsack
- Timecode Output RS422 position converted to LTC
- Timecode Input Use as a LTC to MTC Converter
- MIDI, RS22, LTC Reader, Video Indicators..... Self Test
- Video Sync Input..... Communication an LTC Generator Timing

The MMC2P2 Interface uses experience gained from both the SR and MR series remote control system. Designed to be used with existing consoles and DAW's the interface will connect any MMC Midi Output and MTC Midi Input to a RS422 P2 Protocol serial port on any machine.



- **Record and Record Track Arming**..... Multi-Track arming passed to MX2424
- **RS422 Input** For use with Consoles, DAW or Video Editors
- **Timecode Output** Virtual Master for the MX2424
- **Timecode Input** More Accurate position information
- **MIDI, RS22, LTC Reader, Video Indicators** Self Test

This Interface may be used as a serial slave with most RS422 editors/synchronisers

Integration SR/MR Systems with PC Display, Storage and Networking
 System Display Multi-Machine Position, Tally, Offset, Track Arm
 Master Display Master Position, Lock & Record Indicators
 Track Arming Control & Indication Track Arming, Track Map, Bank Indication
 Q2Image Visual Cue Point List and Locates
 Hardware Jog/Shuttle USB link to Shuttle-Pro and other Controllers
 Serial Port Server Up to Eight Applications linked to the system at any time
 Multiple Serial Protocols CB X-Sony, Sony P2, DVD
 OEM Support Available Integration with DAW and Console Software

Master Display

The QMaster Display' shows the master output timecode, a system lock and record indicators. It can be positioned and sized to suit your working environment.



Full System Display

Lock	Port	Name	Tally	Position	Offset	Track Arming	Rec
<input type="checkbox"/>		GenO/P	▶	00:25:52.	00:00:00:00		
<input type="checkbox"/>	B	DA-88	▶	00:35:52.	00:10:00:00	■ ■ ■ ■ ■ ■ ■ ■	<input type="checkbox"/>
<input type="checkbox"/>	C	MX2424	▶	01:21:19.07	01:00:00:00	■ ■ ■ ■ ■ ■ ■ ■	
<input type="checkbox"/>	D	MC-1	▶	02:25:52.	02:00:00:00	■ ■ ■ ■ ■ ■ ■ ■	<input type="checkbox"/>

Full System overview including Position, Offsets, Record In and out, Track Arming. Clicking on the Track arming display for any machine opens the full track arm panel for that machine. Multiple track arm panels may be opened at the same time.

Track Arming



The track-arming window includes Record Enable, track arming and record on/off as 'QIlluminated Switches'.

Click on the track arming Switches to enable/disable individual tracks.

Click ON or OFF to control record on individual machines.

Display up to 48 Digital tracks plus analogue audio and video.



Q2 Image

Q2 image creates a image and/or text based cue list, the advantage of using images is that they are easier to remember than timecode numbers.

5 Frame Display



9 Frame Display



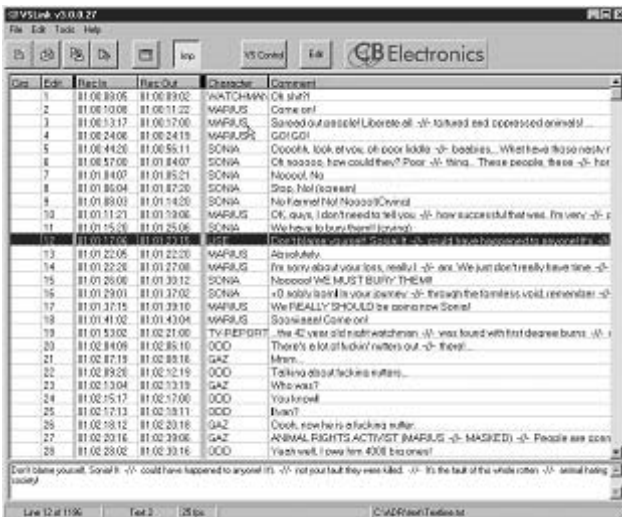
Image and cue points are capture using the space bar or the mark key on the SR or MR remote control. Cues are selected using the cursor keys on the computer or the previous and next keys on the remote control. The enter key or Locate key on the remote control are then used to locate the selected image.





VSLink 2: Cue List Import, Management & Download

- Multiple input formats Text, EDL, Wintaker, Text, and ADR-Taker
- Specialized Text Filters Text, Text2, Character Name Files
- Two Output Formats VS-Link and MR-ADR
- Windows Software Tested on 95, 98, 2000, NT
- Sort Loop Number, Time or Character Name
- Global Timecode Manipulation Open in, Open out, Conform
- Video Streamer Control Panel Add Cue, Delete Cue, Modify Cue, Video Standard
- Timecode Capture Using Video Streamer Reader



Cue list download for Video Streamer and ADR Controller, imports text files from word processors and spread sheets. Wintaker Import allows import from other German formats. Direct import from ADRTaker.

Text file import is rule based and allows separation of Loop Number, Character Name, in points and out points.

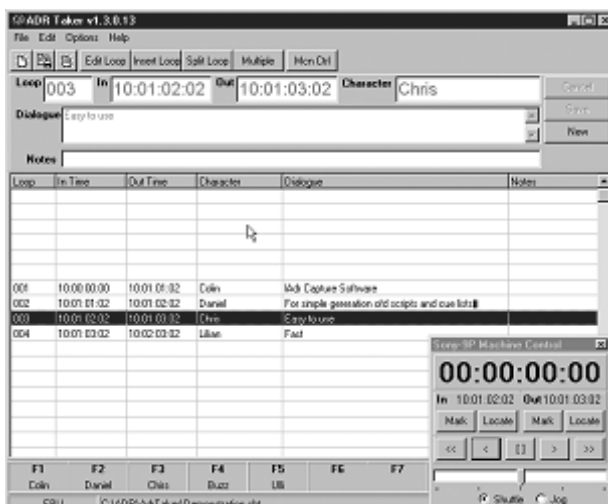
Sort routines allow download by character or timecode value. Conform software allows for timecode change or program edits.

Handles may be added to loops to allow for the effects of language change on the average time required for each Loop.



ADRTaker: Cue List Preparation Tool

- Multiple Selectable Entry Fields In Time, Out Time, Character, Dialogue, Notes
- Programmable Function Keys Single Key Character Entry
- Simplified Timecode Entry Hours and Minutes tens copied from Previous Entry
- Last Out point becomes next inpoint
- Sony P2 Machine Control In and Out Capture
- In & Out time Checking Loop Duration, Out before In
- Printer Driver



Quick Cue list preparation for ADR/Taker applications, output compatible with VS-Link-2, text or printer.

The ADRTaker program provides Integral machine control with Contour ShuttlePro interface allows jog and shuttle control of RS-422 controlled machine.

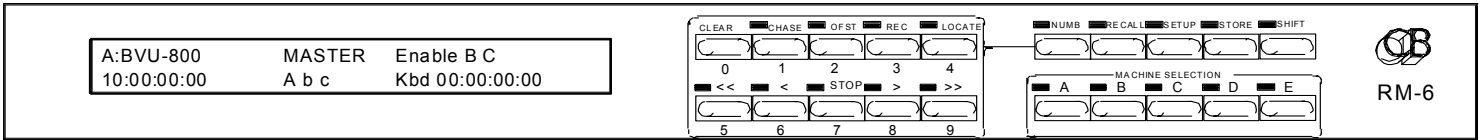
Programmable input fields to suit different applications, Fields that are not required are skipped to speed up entry.

Look for direct control of DVD, Quicktime and Windows Media Player in the future.





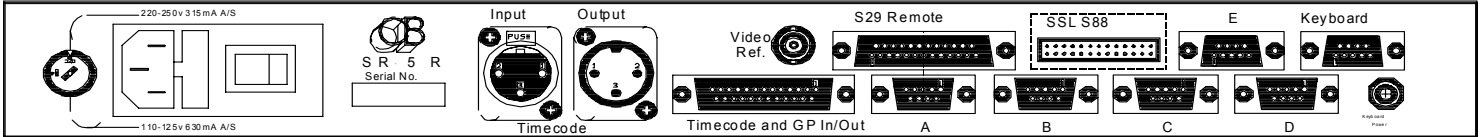
RM-6 Serial Remote/Synchronizer



2 LINE BY 40 CHARACTER LCD DISPLAY

NUMERIC KEYS BECOME COMMAND KEYS AFTER SHIFT, STORE or RECALL

Rear Panel

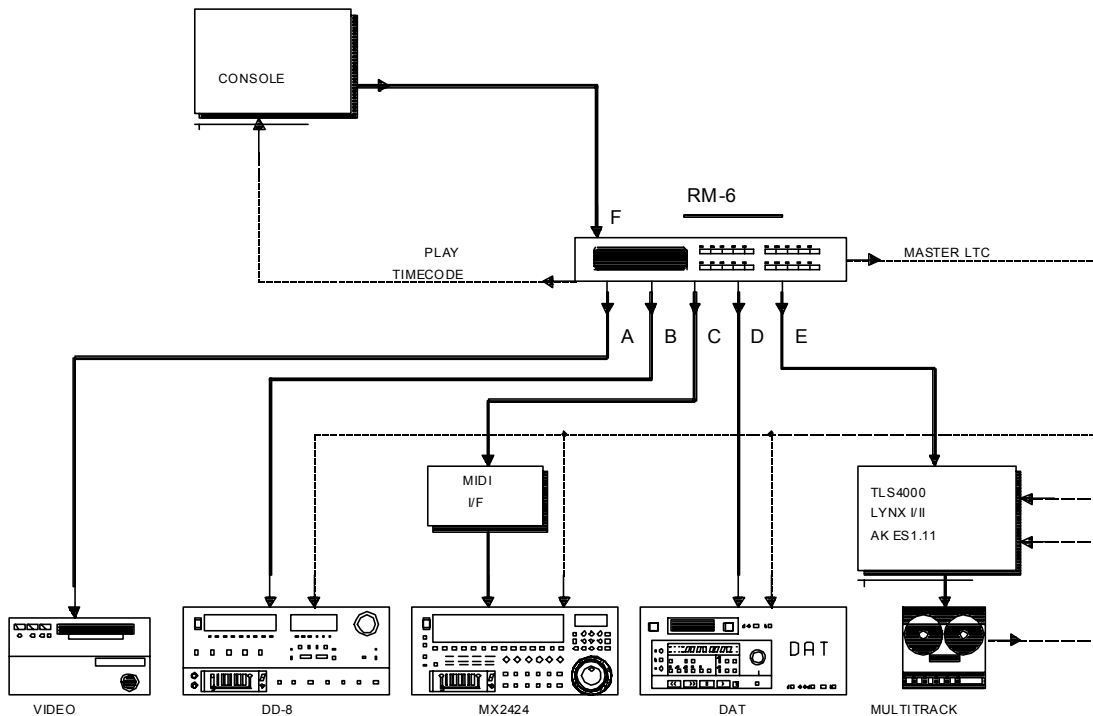


- **Six Serial Ports** 4 Output, 1 Input/Output, 1 Input/Keyboard
- **Real or Virtual Master** Perfect Machine as Master, Tapeless Master
- **1U Rack Mount** Mounts the SSL Computer Rack
- **Optional Remote Panel** Track Arming & Jog/Shuttle
- **S29 Port** Parallel Remote with tallies

The RM Serial remote/Synchronizer uses the same core software as the SR and MR series remote control system. Designed to be used with existing consoles and DAW's this unit will expand a single Sony Protocol serial port to five serial ports. The various serial protocol options allow the RM Synchronizer unit to act as a serial protocol converter.

OEM customers may use the extended Sony protocol to provide a full synchronizer controller interface.

Typical RM-6 Installation

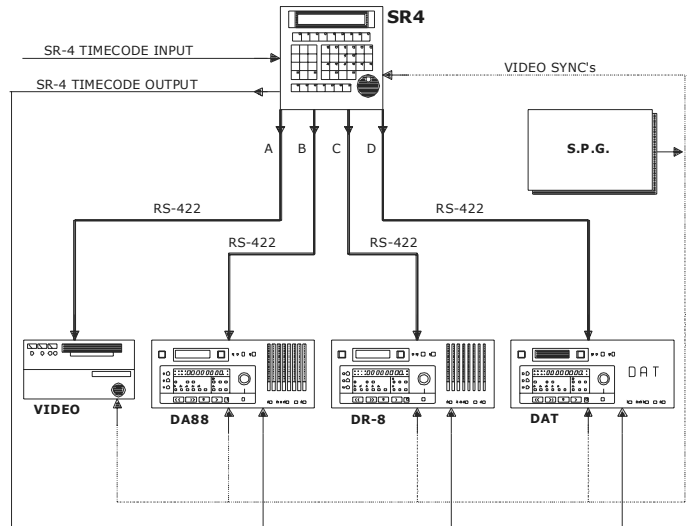
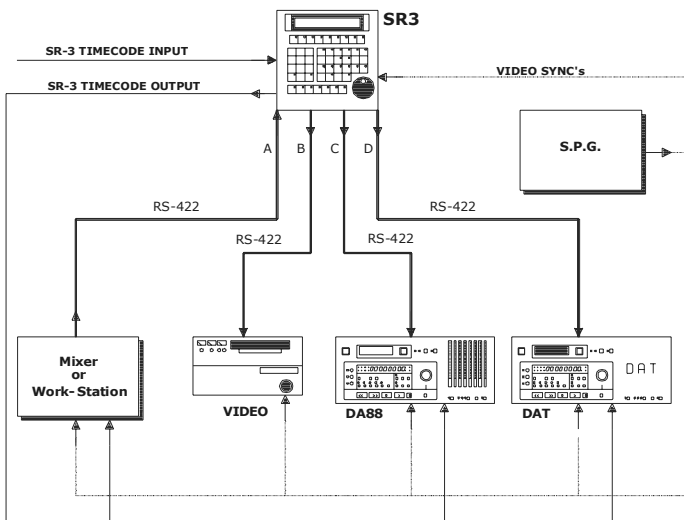


Note: all units require video syncs

- RM-6** Rack Mount Serial Synchronizer, Full F/P
- RM-6-SSL** Rack Mount Serial Synchronizer, Full F/P, SSL S29 and S88 for 4K and 5K consoles
- RM-6-4** Rack Mount Serial Synchronizer, Blank F/P, SR-4 remote keyboard and display
- RM-6-24** Rack Mount Serial Synchronizer, Blank F/P, SR-24 remote keyboard and display
- RM-6-32** Rack Mount Serial Synchronizer, Blank F/P, SR-32 remote keyboard and display



SR-3, SR-4, SR-24, SR-32 Serial Remotes/Synchronizers

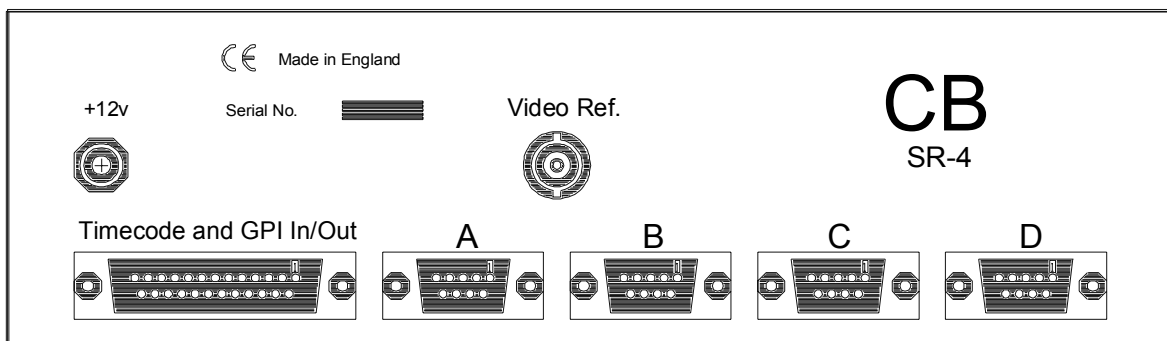
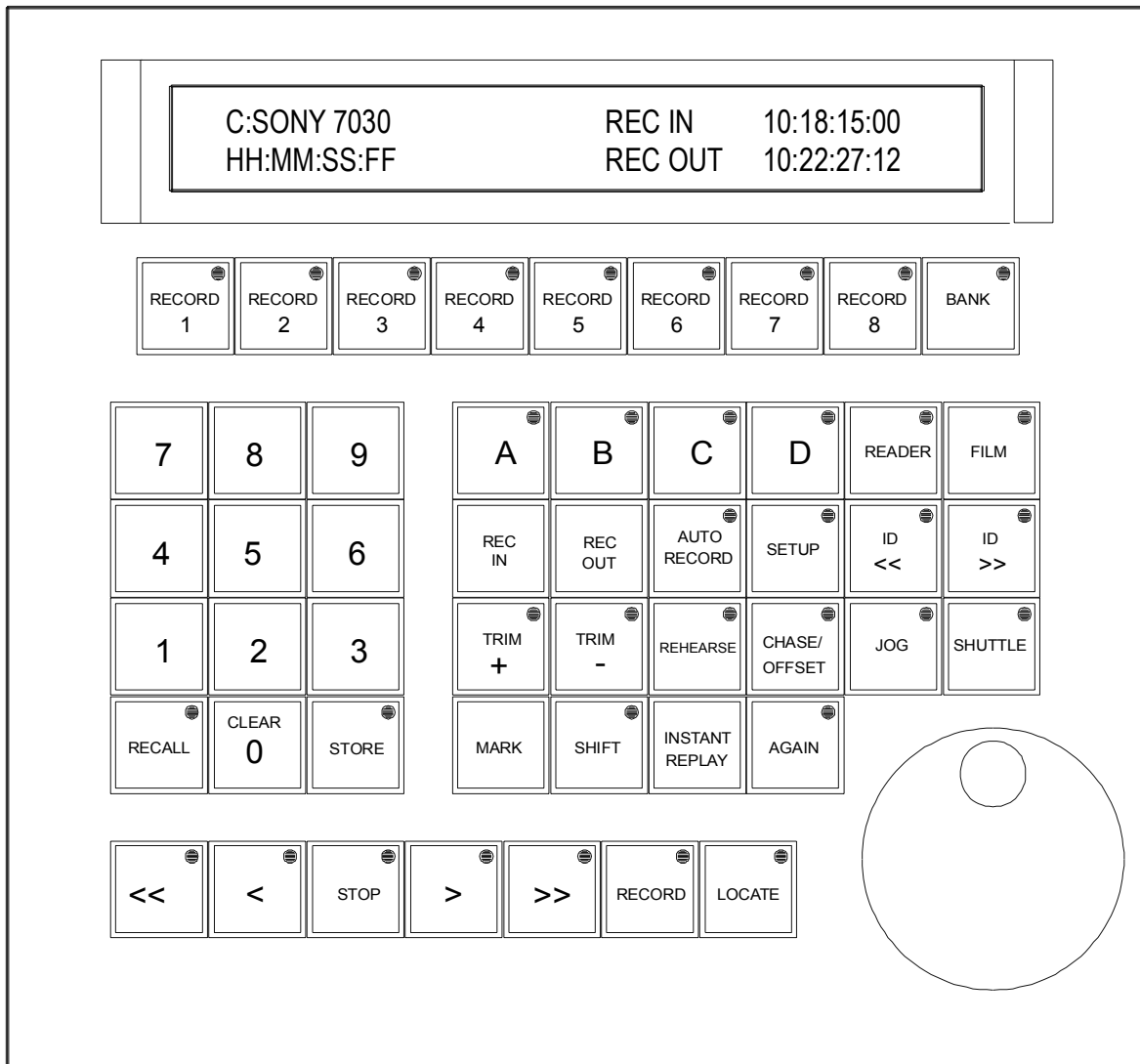


- **Multiple serial outputs** SR-3: 3 Output, SR-4: 4 Output
- **Plug and Play Sony P2 protocol** .Auto recognition/configuration for DAT's, VTR's, DA-88 Digital Dubbers
- **ES BUS protocol** Audio Kinetics ES 1.11, ES 1.12
- **Studer TLS4000 protocol** Studer Audio Tape Recorders
- **Studer D820/D827 protocol** Direct interface to machine synchronizer
- **Ampex Protocol** VPR-3, VPR-80, Timeline Lynx
- **RS422 Input** On SR-3 for use with DAW or Video Editors
- **Parallel GPI's** 6 parallel inputs, 6 parallel outputs
- **Timecode Output** Follows the master position and Offset
- **Timecode Input** All four outputs will chase remote code
- **Built in P2 Synchronizer** Will control & synchronize any suitable 9-pin Machine
- **Virtual Machine Mode** Perfect Machine as Tapeless Master
- **Midi Protocol**.....MX2424
- **Pioneer Protocol**.....DVD
- SR-4 Eight Record Ready keys** Up to 48 record Channels
- Eleven Macro keys** 100+ User Programable Functions
- SR-24 Twenty Four Record Ready Keys** Up to 48 Record Channels
- Fifteen Macro Keys** 100+ User Programable Functions
- Parallel Remote with tallies** SSL S29 format
- SR-32 Thirty Two Record keys** Up to 48 Channels
- xx Macro Keys**
- Parallel Remote with Tallies**





SR-3, SR-4, SR24, SR-32 Serial Remotes/Synchronizers



Size: 8.7" (221) x 8.1" (206) x 2.5" (63.5) MAX

SR-3 Three 9-pin outputs and one serial input, LTC In/Out, GPI O/P & I/P's

SR-4 Four 9-pin Serial outputs, LTC in/out, 6 GPI inputs, 6 GPI outputs

Options

SRP-1 LYNX VPR-3 Serial Protocol

SRP-2 AK ES-BUS Serial Protocol

SRP-3 Studer D820 Protocol

SRP-4 Studer TLS4000 Protocol

SRP-5 Midi Protocol

SRP-6 Pioneer Protocol

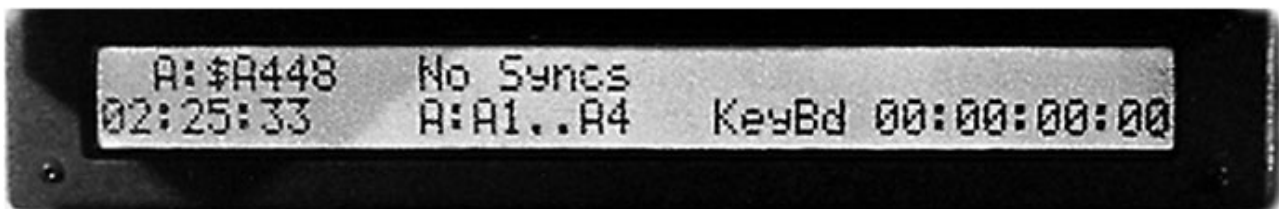
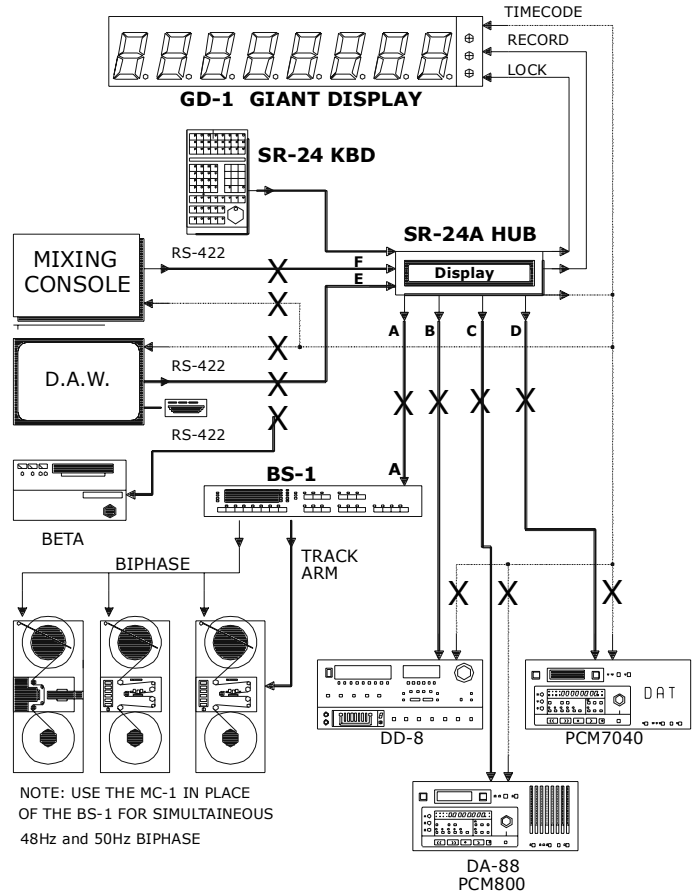


SR-24, SR-24a Serial Remotes/Synchronizers

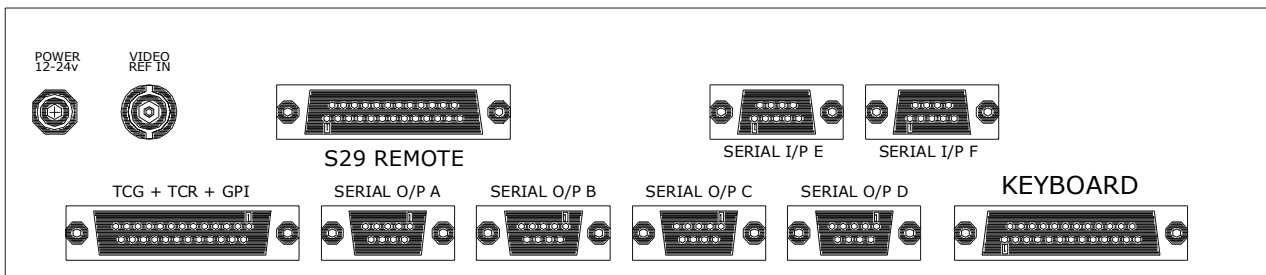


Size: 10.3" (262) x 6.5" (165)

SR-24A BLOCK



SR-24 HUB



SR-24a Separate keyboard, Six 9-pin RS422 ports, four O/P outputs, One switchable Input/Output. One Input, S29 Parallel Remote Port, 24 track arm switches, Large 8mm Display

SR-24b Separate keyboard, Four 9-pin RS422 ports, three O/P, One switchable Input/Output. 24 track arm switches, Large 8mm Display

SR-32 Separate keyboard, Six 9 pin RS422 ports, four O/P, One switchable Input/Output, One input, S29 Parallel Remote Port, 32 Track arm switches with 4 selections, Large 8mm display

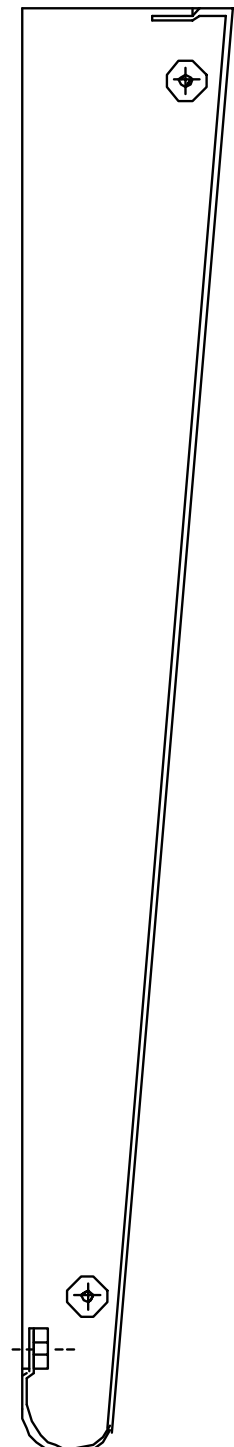
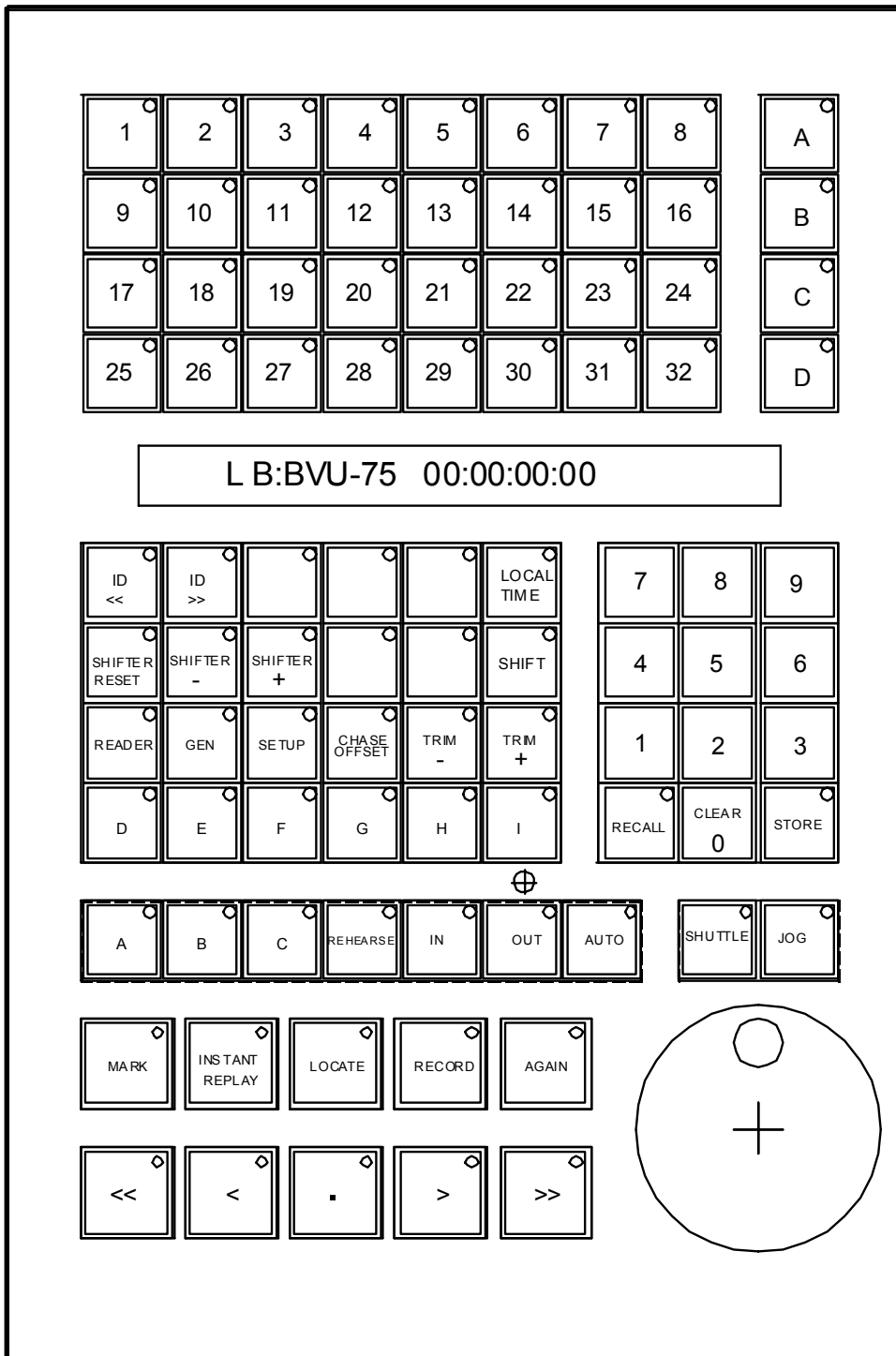
MR5 Display

C:SONY 7030	Master	Rec In	10:18:15:00
10:20:00:00	Loop 001	Rec Out	10:22:27:12

Display 2 line x 40 8mm high characters

SR-32 Keyboard

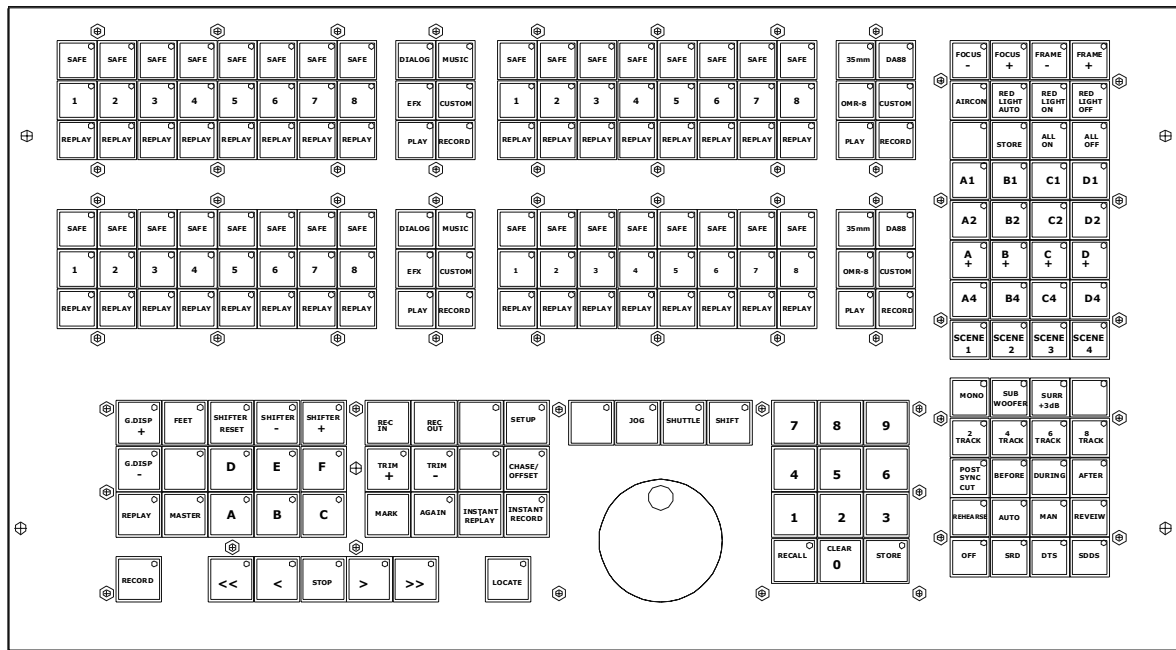
CROSS SECTION



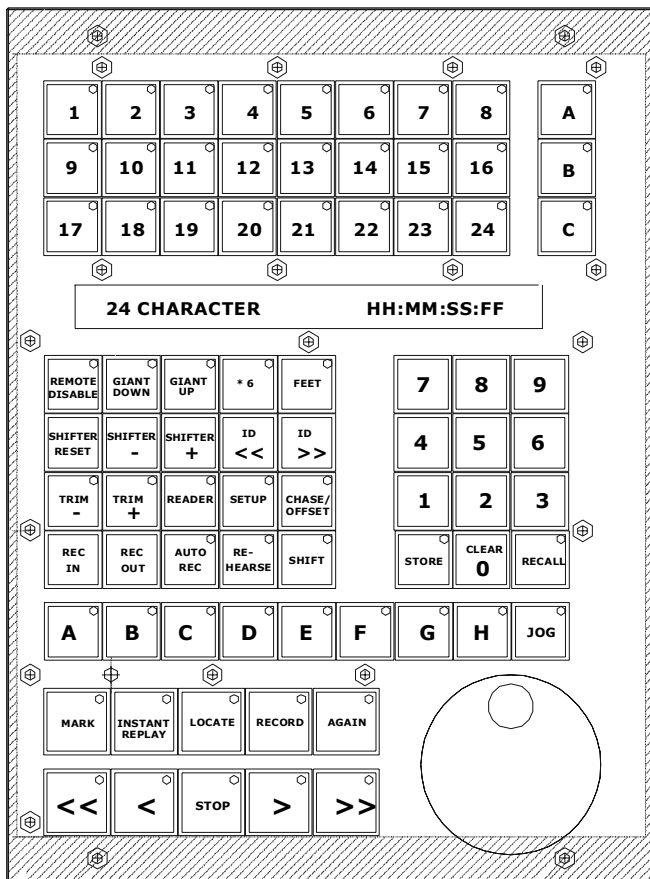
280mm x 187mm (10.9" x 7.3")



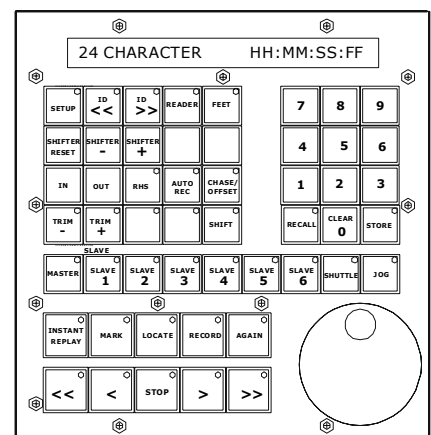
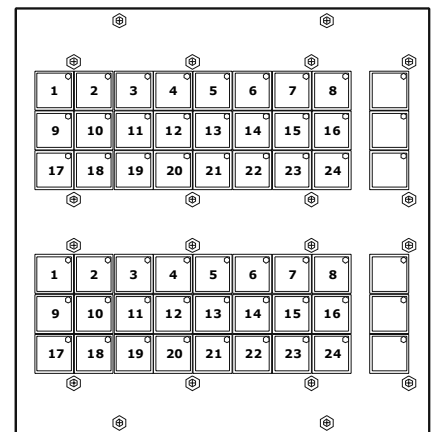
MR Multi-Format Remote Control System



MR-32 FOR DE LANE LEA - 19" X 10.5" PANEL



HARRISON SERIES 12 PANEL - TO FIT 4 FADER PANEL

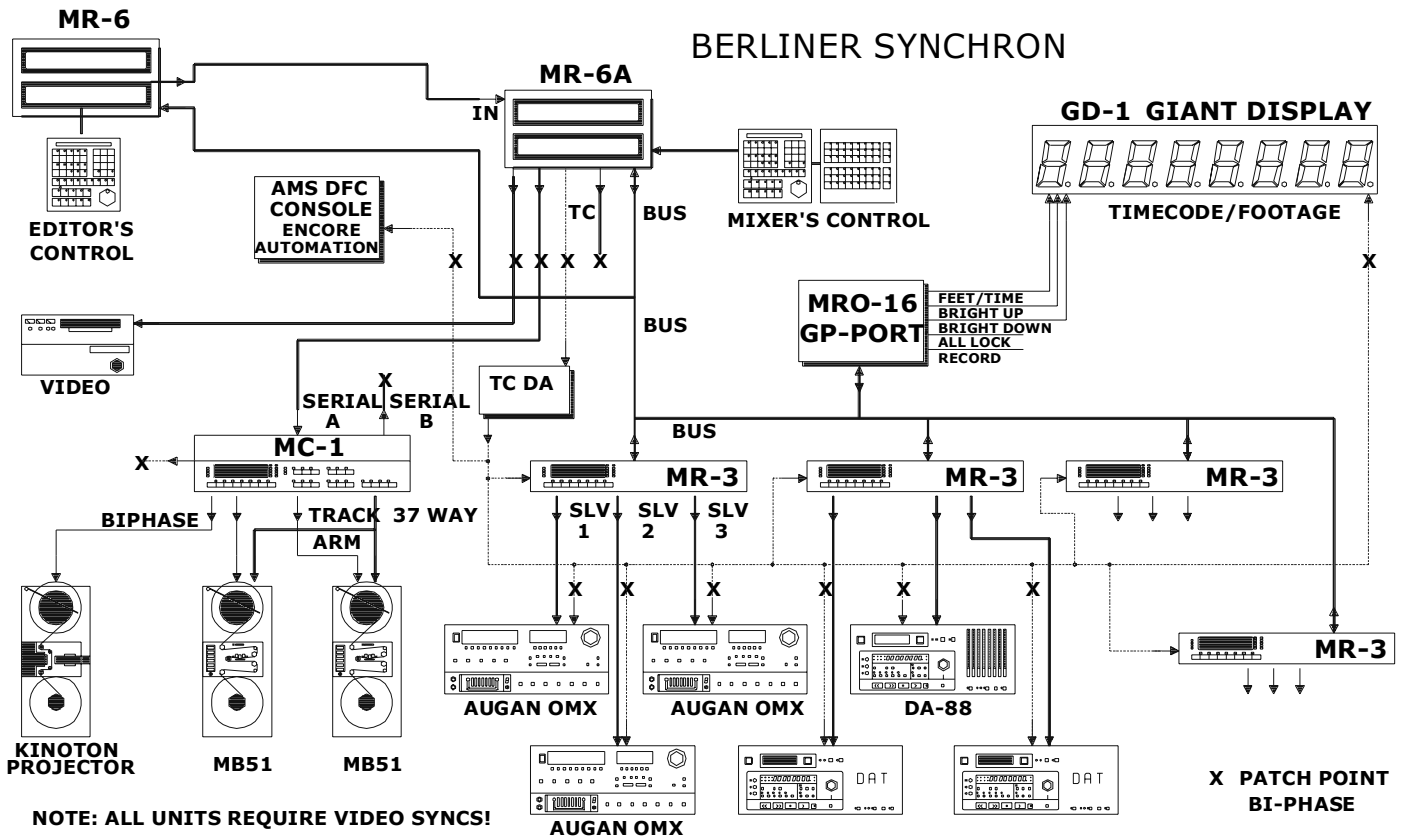


AMS DFC/LOGIC

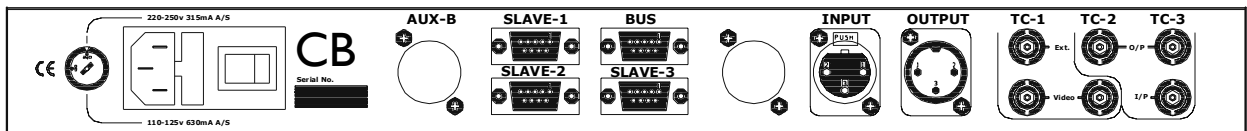
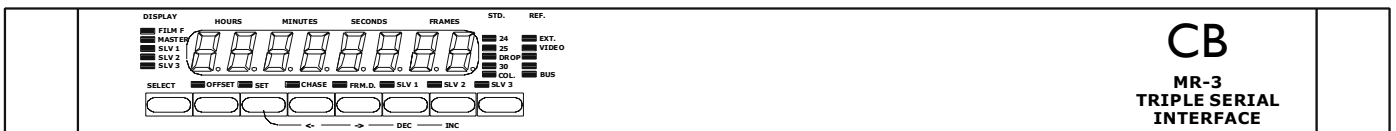
- **Modular Control Surface** Easy to Customise
- **Film Aware** Reverse Play, Footage and Timecode
- **Bus** Simplifies system updates
- **Plug and Play Interfaces** Sony P2 Auto recognition and Setup
- **Machine/Synchronizer Interfaces** Sony P2, Midi, ES-Bus, Ampex
- **RS422 Console interface** Sony P2, Harrison
- **Parallel Interfaces** External Record/Ready, Read Light, Backup Recorder
- **PC Interface**



MR Multi-Format Remote Control System



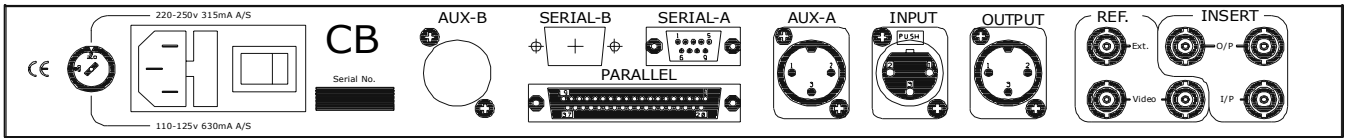
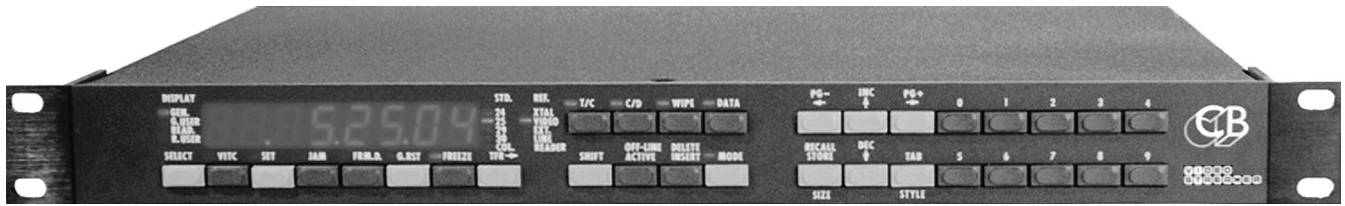
An Example of a large system with two controllers and 15 machines



- MR-3** Three Machine Serial Interface/synchronizer
- MR-5** □ub with two line 8mm display for custom keyboards: 4 Serial ports
- MR-5A** □ub with two line 8mm display for custom keyboards: 6 Serial ports: S29 I/F
- MR-6** □ub with four line 8mm display for custom keyboards: 6 Serial ports: S29 I/F
- MR-7** Custom front panel and layout, www.colinbroad.com for Examples
- RM-6-MR** Rack Mount Serial Synchronizer 5 Serial ports, Blank F/P for custom keyboards
- MSR-4** SR-4 keyboard PCB for use with MR Systems
- MSR-24** SR-24 keyboard for use with MR System
- MSR-32** SR-32 keyboard for use with MR System
- MR-P16** Parallel Bus interface 16 opto-isolated inputs or outputs in groups of four
- MR-□48** 48 track parallel console interface: □arrison/SSL/Neve (96 track max.)



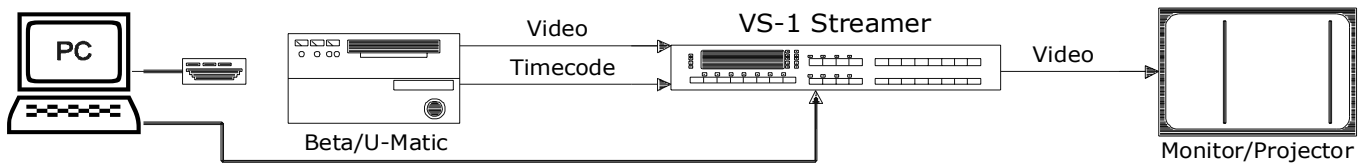
Video & Audio Cuing VS-1



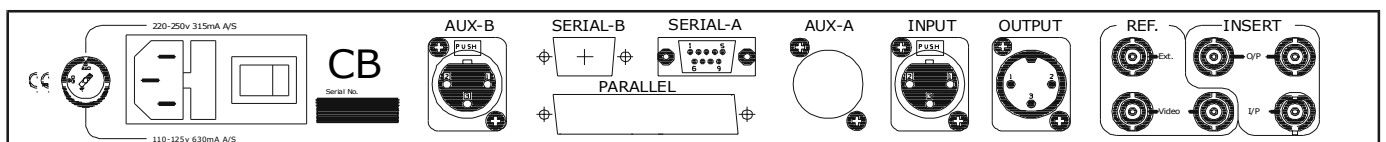
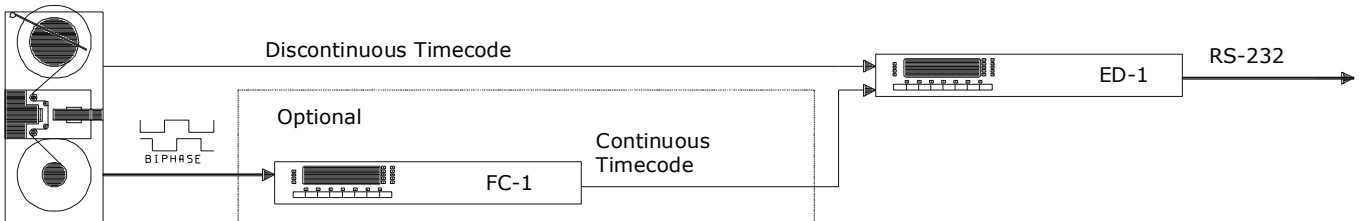
- **Video Cuing**ADR, Scene Changes
- **Available with Beep or Click Output** ADR Talent Cuing or Music Tempo cues
- **RS232 interface**

VS-1 VIDEO STREAMER: Video Wipes/Audio Cuing Metronome 500 cue list: Cue List Editor & Multi Standard LTC Reader/Generator/Insertter: PC Upload/download: VS Link Software

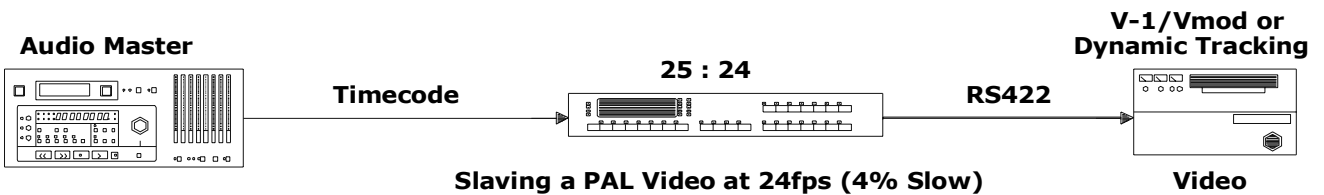
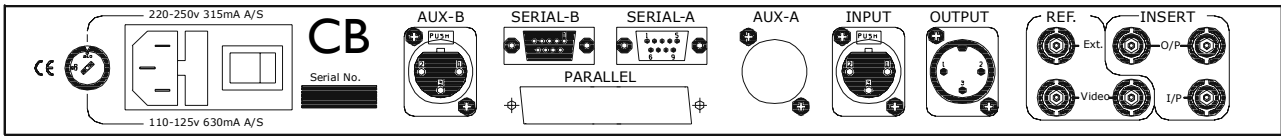
VS-LINK Upgrade kit including new software and RS-232/ ost PC Software, Improved video card, Beep Output



Timecode Reader/Generator/Insertter TC-1/TC-2



- TC-1** READER/GENERATOR: LTC, Multi Standard, Multi Reference
- TC-2** READER/GENERATOR/INSERTER: As TC-1 + 4 separate video insertions
- ED-1** Academy Award system that generates CMX format EDL lists from discontinuous timecode
- TCO-2** Optional VITC Reader/VITC to LTC Converter for TC-2
- TCO-3** Optional Multi Standard VITC Generator for TC-2
- TCO-4** Optional Timecode (Master) to Sony RS422 9 pin video slave for TC-1



Slaving a PAL Video at 24fps (4% Slow)

Timecode Standard/Framerate Converter

- **Timecode Input any standard** 24, 25(EBU), 30(SMPTE), DROP FRAME
- **Timecode Output any standard**..... 24, 25(EBU), 30(SMPTE), DROP FRAME
- **Input Output Frame Rate Gearbox** 23.97 : 24 : 24.97 : 25 : 29.97 : 30
- **Switchable Timecode**Generator Lock Source Reader, Video
- **RS232 Serial Interface** ASCII Protocol
- **RS422 Sony P2 Output** Video Slave at any Frame Rate
- **6 Preset configurations**
..... Easy Setup for Repeat Jobs

The Timecode Gearbox is used whenever you have to mix code standards, normally because someone has supplied you with an Audio or Video and a different standard or Frame rate:-

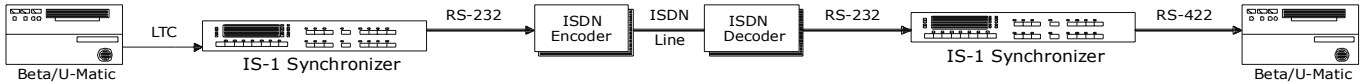
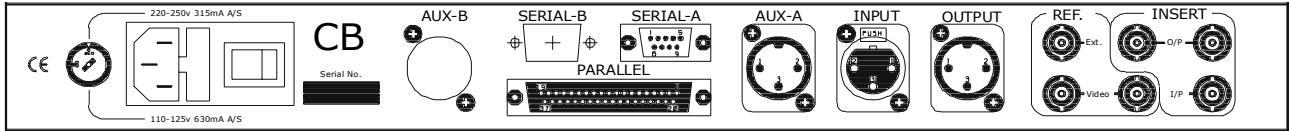
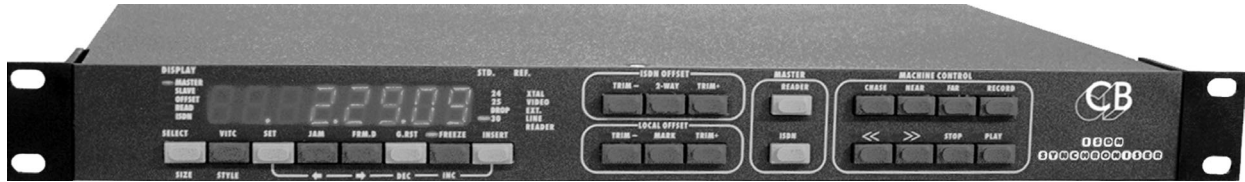
Examples

- 1 The M & E track has been supplied with 29.97 fps SMPTE timecode and you are working with 25 fps EBU timecode.
- 2 You are dubbing the final mix to film at 24 fps and you are supplied with a dialogue tape recorded to 25fps Video.
The Timecode Gearbox may also be used to change standard/timecode value without gearbox action.
- 3 You are working with a system that does not recognise Drop frame code and you need to convert from Drop to Non Drop.
- 4 You have almost finished your Mix and a new video is supplied with a different timecode.
The Synchronizer section of the TG-1 may be used to synchronize any non-linear VTR (V-Mod, V-1, Viper) or Dynamic scan VTR at a different frame rate.
- 5 You wish to prepare the music tracks for a 24fps film to a 25fps PAL video, you can use the TG-1 to slave the Video to 24fps so that there is no pitch shift on the final version.

TG-1 TIMECODE GEARBOX: Timecode In - Out: Converts both standard and frame rate. Any combination of 23.97 : 24 : 24.97 : 25 : 29.97 : 30 supported.



IS-1: ISDN Synchronizer

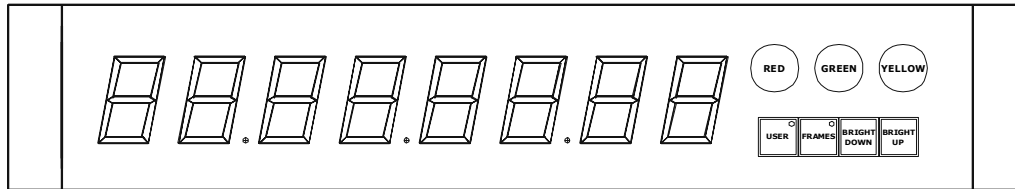


- **Uses the RS232 aux channel** Frees Audio Channel for Stereo
- **Timecode In/Out** Any standard
- **RS422 Machine Control** DAT or VIDEO machines
- **Video Synchronizer** Slaves Video Machine to local or remote timecode
- **Integral Remote Control** With Remote Tally indication
- **Stand alone Video Synchronizer** Slave to timecode
- **Programmable Encode/Decode Offset**

IS-1 ISDN Synchronizer: Slave a video machine via the telephone Use the Serial port on ISDN audio units (Dolby, CCS) to Transmit/Receive Timecode: Slave/remote control a Sony RS422 9-pin machine: Will also slave to Analog timecode

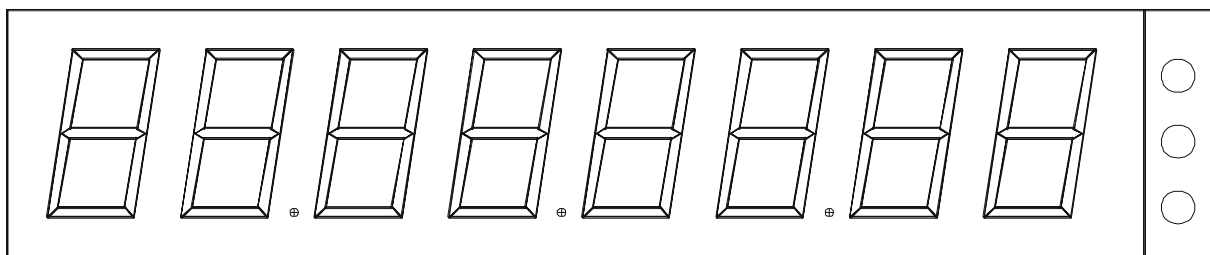


LD-1: 2U Display, GD-1: Giant Display



□□-□□ 2U

- **GD-1 37□x 7□x 3□ overall** Giant 5□ Red□ □igh Brightness Led Displays .. Easy to see
- **LD-1 Rack or wall mounting 1.75□ Red/Green** □igh Brightness LED Displays For Video Studios
- **Timecode Input** Any standard
- **Remote Control** Time/User Data, Frames ON/OFF, Brightness, Display On/Off
- **Footage Display** When used with CB Film products
- **Three 20mm LEDs** □Red□ Green□ □ellow□ Record, Lock, Cue Indictors



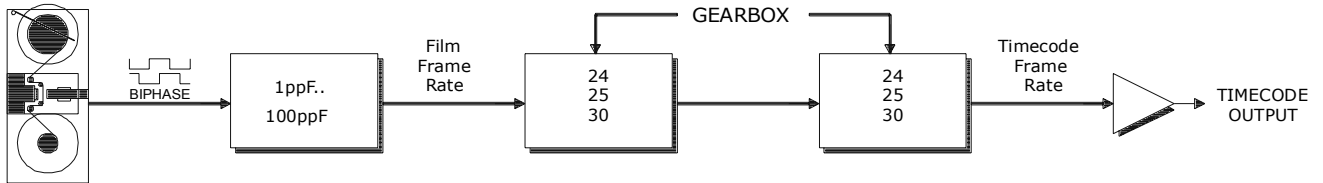
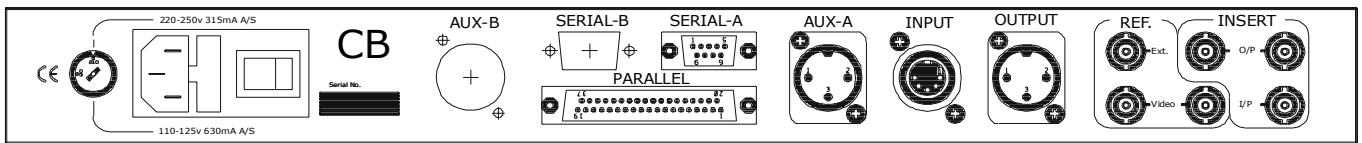
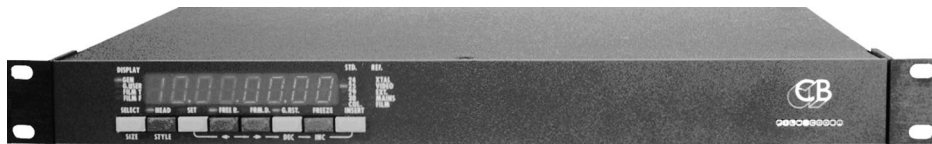
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GD-1 Our Giant Display reads and displays EBU/SMPTE/FILM Longitudinal Timecode or User Bits in five inch high, 7 segment red LED displays with simple, remotable, two switch operation

LD-1 2U Display, wall or rack mounting. Timecode to Footage, 1.75 inch high characters. Use with the FC-1, MC-1, TC-1, VS-1 to display footage.



Bi-Phase - □ Timecode FC-1/FC-2

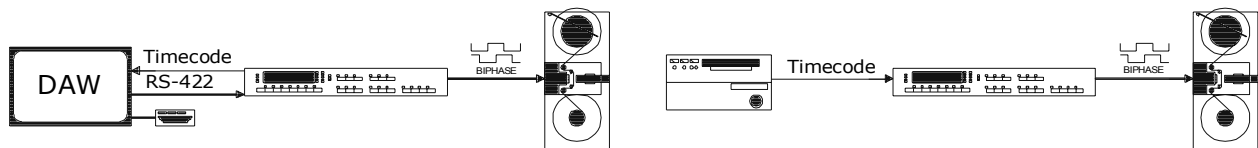
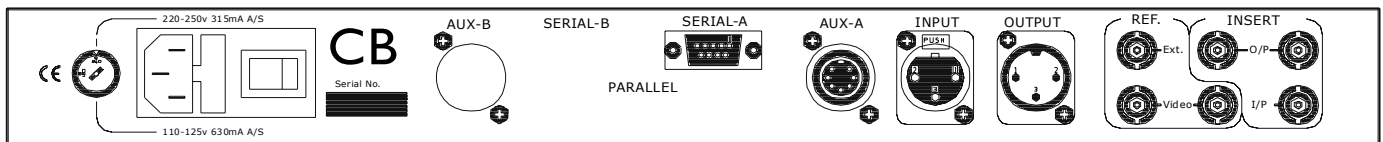


- **Bi-Phase Input** 1..100 Pulses per frame
- **Timecode Output** Any Standard
- **Internal Electronic Gearbox**

- FC-1** FILM CODER: Bi-Phase to Timecode conversion with Electronic Gearbox
- FC-2** FILM CODER/INSERTER: As FC-1 + 4 separate video insertions
- FCO-3** Optional Biphase (Master) to Sony RS422 9 pin video slave for FC-1
- FCO-2** Optional Multi Standard VITC Generator, for FC-2



Timecode/RS422 - □ Bi-Phase BS-1

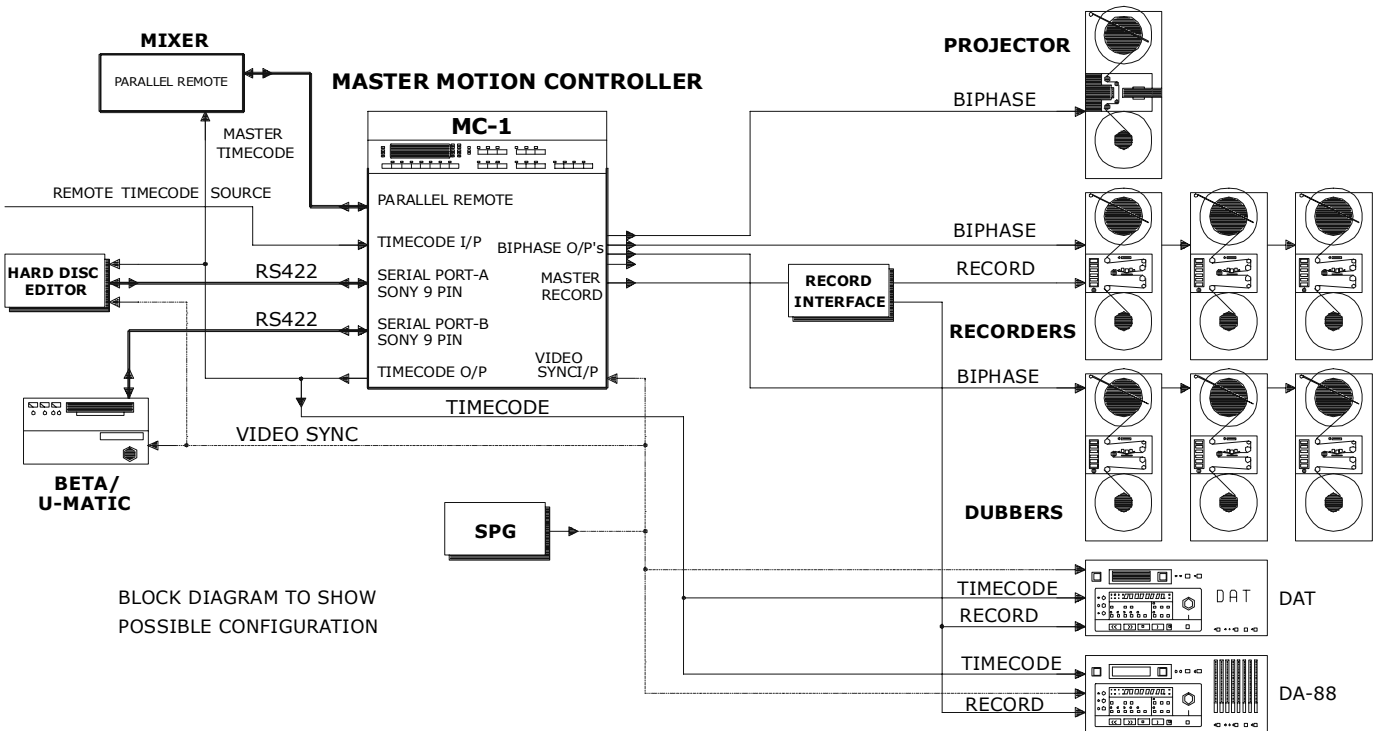
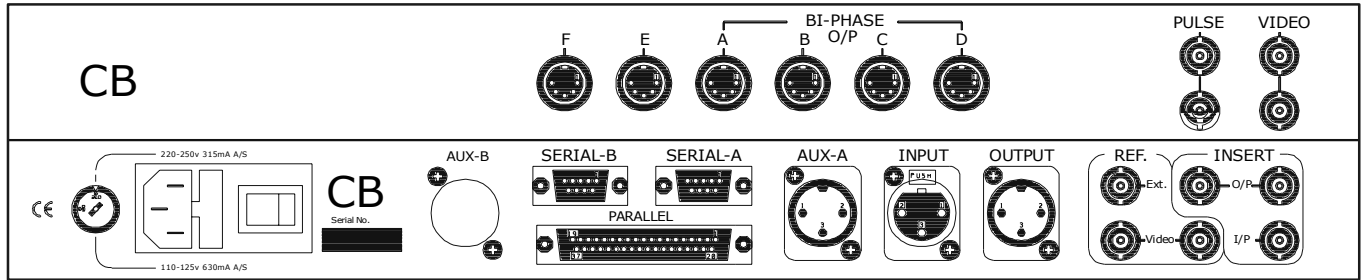
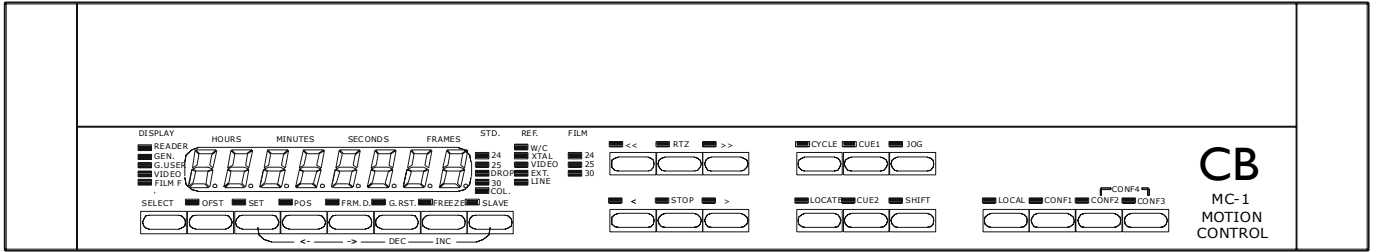


- **One Bi-Phase Output** 1, 2, 4, 5, 10, 20, 25, 50 or 100 Pulses per Frame
- **Timecode Input & Output** Any Standard
- **Electronic Gearbox** 24:25:30
- **Tapeless Mode** Instant locates for use with □ard Disc Systems
- **RS422 Remote Control Input** SONY 9-pin Protocol
- **Synchronize to Timecode**

- BS-1** BI-P□ASE SYNC□RONI□ER: including the VM-1 Virtual Machine LTC in, LTC Out, 1 x Bi-phase out, 9 pin RS422 Control input.
VIRTUAL MAC□INE Multi Standard RS422 controlled TC Generator: For use with Digital audio Work-stations, □ard Disc/Non-Linear Editors.
- BS-2** As BS-1 but with 9 pin RS422 output to slave a video machine
- BSO-1** 16 Track Record Arming output
- BSO-2** Parallel Remote Control input



Bi-Phase & Timecode Virtual Master MC-1



- **Four Bi-Phase Outputs** 1, 2, 4, 5, 10, 20, 50 or 100 Pulses per Frame
- **Timecode Output** Any standard
- **Electronic Gearbox** 24:25:30
- **External Reference Input** Mains, Video, TTL frame rate
- **Parallel Remote Control** Full function including JOG
- **Tapeless option** Instant locates for use with Hard Disc Systems
- **Serial Remote Control Input** Sony 9-pin protocol
- **Serial Remote Control Output** Slaving a VTR using Sony protocol
- **Synchronize to Timecode** Any frame rate
- **Parallel Track Arm Output** 16 Record On and 16 Record Off
- **Additional Bi-Phase Output** Always at 25 fps
- **Tach and Direction Output**

MC-1 MASTER MOTION CONTROLLER: 9-pin serial remote: Parallel remote: 4 Bi-Phase outputs: Timecode output: 9-pin serial video synchronizer Slave to timecode: 16 Track Record Arming: One Bi-Phase output always at 25 fps: Tach + Direction Output

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