

# MCS SERVER

## On-Air Broadcast Server Broadcast Time Delay Two Channel Sports SloMo

Records video using MPEG2  
4:2:0 or 4:2:2 video compression  
selectable from 5 to 50 Mb/secs

Frame accurate control via  
RS-422 or Ethernet

Accepts Odetics, VDCP and P2  
machine control protocols

Compatible with leading broadcast  
automation systems

Composite, S-Video, YUV/RGB  
and SDI (option) in/out

Up to 6 channel analog  
and 8 channel digital Audio

Front panel video monitoring  
LCD screen (option)

Internal storage or external RAID-5  
dual-redundant power supply (option)

Built on a dedicated video  
hardware platform

Back to back  
record and play

Video transitions  
fade, wipe and dissolve



## MULTI-CHANNEL VIDEO SERVER

Doremi Labs' MCS Server sets a new standard in video server value and performance. The MCS Server was designed to enhance and quickly integrate into a facility's existing operations. The front panel mimics familiar VTR controls for ease of operation, while the rear panel offers a complete set of analog and digital video interfaces. It is compatible with P2, Odetics, and VDCP (Louth) protocols to facilitate control from third party automation systems or Doremi Labs' ListMaker software for the PC. The MCS Server features video transitions such as fade wipe and dissolve.

The MCS Server's modular design offers a simple upgrade path towards additional video channels and storage. When additional video channels are required, MCS Servers can be networked together for up to 8 video channels. If internal storage options are maximized, the MCS Server can be connected to Doremi Labs' external RAID5 storage chassis.

### LISTMAKER SOFTWARE

ListMaker provides remote management of the MCS Server plus optional playlist creation capability. ListMaker simplifies the management of hundreds of hours of video recordings. It provides individual transport controls for each independent record or play channel. Each new recording can be placed in existing files (clips) or in new files and accessed concurrently by any play channel.

#### ListMakerPL - Playlist Control

ListMakerPL is available for additional cost for play list operation. Highlights of the video recording, based on time code in/out points, are created within each file. The highlight segments can then be assembled into live-to-air play lists and executed manually or automatically. Changes to the play list can be made while it is running on-air. Execute the play list in one of four different modes (immediate, manual, absolute time, and relative time from an offset)



ListMaker provides a transport window for each video channel.

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Build on-air playlists from your video segments database. Execute the playlist in one of five different modes; immediate, manual, absolute time, relative time from an offset, and time/date.

## MODES OF OPERATION

### Full Front Panel Control

Switch between the different record and play channels via the corresponding channel number button below the LCD display.

### Remote Control via Third Party Controllers and Software

The MCS Server supports the Sony P2, Odetics and VDCP protocols supported by numerous manufacturers.

### Remote Control from Doremi's ListMaker Software

ListMaker provides full support of the MCS Server's multi-file capability. Manage files, create video segments and more. ListMakerPL also features extensive playlist creation capability at an additional cost.

## MCS SERVERS

<b>MCS 1r2p</b>	1 record and 2 play channels
<b>MCS 2r2p</b>	2 record and 2 play channels
<b>MCS 1r1p</b>	1 record and 1 play channel (2 audio expansion slots available)
<b>MCS 1p</b>	1 play channel (2 audio expansion slots available)

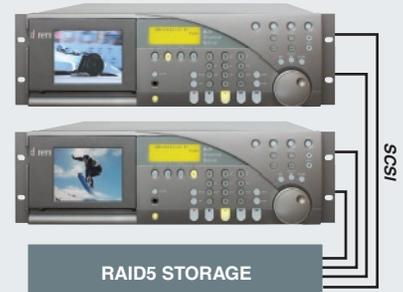
Link servers for additional video channels. Max 2 rec and 4 play or 1 rec and 7 play  
Space for two internal SCSI drives. Linked servers must use external RAID5 storage  
MCS Servers are available in MPEG2 4:2:2 or in a lower price MPEG2 4:2:0 version

## SYSTEM CONFIGURATION

2 record and 2 play with MCS 2r2p  
(or 1 record and 2 play with MCS 1r2p)



2 record and 4 play  
with two MCS 1r2p



## SPECIFICATIONS

MCS 2r2p rear panel shown with dual redundant power supply

### VIDEO COMPRESSION

MPEG-2 w/422@ML profile (up to 50Mbps/sec)  
(The lower cost MCS-420 uses MPEG-2 420 profile)

### VIDEO INTERFACE

**Composite Video I/O**  
NTSC/PAL, 1Vpp, 75 ohm, BNC

**S-Video I/O**  
Y/C, 1Vpp, 75 ohm, 2 x BNC

**Component Video I/O**  
RGB/YUV, 700mVpp, 75 ohm, 3 x BNC  
**Serial Digital Component Video I/O (Option)**  
270Mbit/sec (SDI-SMPTE 259M) 800mVpp, 75 ohm, BNC  
**Video Sync Input**

### AUDIO INTERFACE

**Analog Audio I/O** 2 channels (up to 6 w/ MCS 1p & 1r1p)  
electronically balanced @ +4dB into 600 ohm, XLR  
(24-bit A/D & D/A, 48kHz sampling - uncompressed)  
**Embedded Audio I/O (SDI Option)** up to 8 channels  
**AES/EBU Digital Audio I/O** up to 8 channels w/ MCS 1p & 1r1p

### CONTROL INTERFACE:

**Ethernet** 100BaseT  
**Time Code I/O** LTC, electronically balanced +4dB into 600 ohm,  
¼" jack, VITC  
**Serial Control** 2 RS-422 using P2, Odetics, VDCP (Louth),  
Pioneer DVD, and Panasonic RS232C  
**GPI** 4 inputs (Option)  
**Bi-Phase** Bi-Phase input, DB-9  
**H Adjustment** -799 to +799 (37ns steps)

**Power** 110/115/230/240 VAC, +/- 10%, 50/60 Hz, 85 Watts  
Dual Redundant Power Supply (Option)

**Operating Temperature Range** +10° to +40° C, with rated performance

**Dimensions** 3RU - 5.25"H x 17"W x 15.25"D

**Storage Media** SCSI-equipped fixed / removable internal hard drives

**External Storage** via Doremi's RAID5 Chassis

**Video Monitor** LCD – front panel mounted (Option)

Specifications subject to change without notice. Some specifications and features listed are only available as part of specific packages or options.