



## Digital Video Recorders

Models MPG-100-RHD40, RHD75 and RHD100

**MPEG-2@Disk** is a standalone, real-time Digital Video Recorder/Player that records video and stereo audio in the MPEG-2 (or MPEG-1) format to a Removable Hard Drive. The major advantage over tape-based VCRs is the minimal deterioration over time with no loss of quality, even after hundreds of playbacks. This makes the MPEG-2@Disk the perfect choice for continuous playback duty and an excellent alternative to high performance VCRs. Composite, S-Video and Stereo Audio inputs and outputs are standard and available options include an IEEE-1394 DV I/O and a YCbCr output. All models are NTSC-PAL compatible with auto-detection. User selectable bit rates of 1.2, 2.4, 4.0 or 6.0 or 8.0 Megabits per second permit a choice of the desired quality level when recording. Video and Audio is organized in up to 999 individual tracks for flexibility. Front panel controls have a familiar VCR-type functionality, including a Jog-Shuttle knob. Slow motion playback in 4 speeds is a standard feature.

**MPEG-2@Disk** has an internal Play List function that permits programmed playback of sequential or non-sequential tracks. The Play List information remains on the hard disk, so when the unit is powered up, it can automatically go into the Play List mode. If desired, the Play List data can also be exported to a PC, edited, have tracks renamed and imported back into the unit.

**MPEG-2@Disk** models are available with 40GB, 75GB or 120GB Removable Hard Drives to provide a variety of storage capacities. For example, the 120GB version can hold up to 222 hours at VCD quality or 44 hours in DVD quality. The chart below provides complete details of the maximum recording times possible for various models at different recording bit rates. A special ATC (Around The Clock) software is available to permit constant recording for video logging and surveillance applications. The RS-232 interface facilitates flexible external control.



**MPG-100**



**MPG-100 Connections**

Our Scheduling Software option allows control from a PC to playback specific tracks at predetermined times. Third party machine control and automation companies also provide standard and custom solutions. All command protocol is included in the manual, so systems integrators and end-users can write custom control software. In addition to providing standard VCR-type control functions, the RS-232 interface allows addressing of individual tracks, which makes it ideal for commercial insertion or video jukebox applications. In addition to handling machine control functions, the RS-232 port can be connected to a PC to update the internal firmware systems of the MPEG-2@Disk machine. This enables users to take advantage of improvements or additional features by downloading the new code from our website and updating the unit's non-volatile memory. An optional Keypad is available to control the unit from short distances. MPG-100 units are housed in a desktop metal case, with an optional 19" rackmount kit available.

### Key Features of the MPEG-2@Disk

- Real-time recording with no waiting for encoding
- Flexible recording times and quality levels
- VCR-type controls for familiar look and feel
- RS-232 Interface for remote control
- Slow Motion Playback in 4 speeds
- Optional DV IEEE-1394 Input and Output
- Standalone operation – No PC needed
- No picture degradation in Digital Video quality
- Removable Hard Drive for easy interchange
- Front panel display to show Menus and options
- Play List Feature for random track playback
- NTSC-PAL Auto-detect operation

### Maximum Recording Times at Various Bit Rates

Model	HD Size	1.2Mbps	2.4Mbps	4.0Mbps	6.0Mbps	8.0Mbps
MPG-100-HD40	40 GB	74.07 Hours	37.04 Hours	22.22 Hours	14.81 hours	11.11 hours
MPG-100-HD75	75 GB	138.46 Hours	69.44 Hours	41.67 Hours	27.78 Hours	20.83 Hours
MPG-100-HD120	120 GB	222.22 Hours	111.11 Hours	66.67 Hours	44.44 Hours	33.37 Hours



## Digital Video Recorders

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### Specifications

#### Video Input

Composite Video	1x via BNC Connector
S-Video (Y/C)	1x via 4-Pin Mini-DIN Connector
IEEE1394 DV (Optional)	1x via 6-Pin DV Connector
Impedance	75Ω
Television Standards	NTSC, PAL-B/G Auto-detect

#### Audio Input

Unbalanced Stereo	1x via RCA Connectors (R/L)
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#### Video Outputs

Composite Video	1x via BNC Connector
S-Video (Y/C)	1x via 4-PIN Mini-DIN Connector
IEEE1394 DV (Optional)	1x via 6-Pin DV Connector
YCbCr (Optional)	1x via 3x BNC Connectors
Impedance	75Ω
Television Standards	NTSC, PAL-B/G Selectable

#### Audio Output

Unbalanced Stereo	1x via RCA Connectors (R/L)
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#### General

AV Data Tracks	Up to 999
Compression Method	MPEG-2 or MPEG-1
Recording Bit Rates	1.2, 2.4, 4, 6 or 8 Mb/s per sec
Slow Motion Playback	4 Speeds
Hard Drive Sizes	40GB, 75GB, 120GB
Hard Drive Type	Removable EIDE, 7200 RPM
Hard Drive File Type	FAT 32 or Unformatted

#### Control Methods

Front Panel	Push Buttons, LCD Readout, Jog-Shuttle Knob
RS-232 Interface	via DB-9 Male Connector

#### Mechanical

Size (H-W-D)	4.25x17.25x14.6" (108x438x370)
Weight (Net)	26.5 lbs (12 kg)

#### Warranty

Limited Warranty	2 Years Parts and Labor
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#### Environmental

Operating Temperature	+32° to +120° F (0° to +48° C)
Operating Humidity	10% to 85%, Non-condensing
Storage Temperature	-40° to +150° F (-40° to +65° C)
Storage Humidity	10% to 85%, Non-condensing

#### Power Requirement

Internal Power Supply	100-240VAC, 50-60Hz, 220W
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#### Regulatory Approvals

DVR Units	FCC, CE
Power Supply	UL, CE, CSA

#### Accessories Included

1x Operations Manual	
1x C-Video Cable	6' BNC to BNC
1x S-Video Cable	6' 4-Pin S-V to 4-Pin S-V
1x AC Power Cord	6' USA Type 3-Pin

#### Product Item Numbers

MPG-100-RHD40	MPEG-2@Disk with 40GB HD
MPG-100-RHD75	MPEG-2@Disk with 75GB HD
MPG-100-RHD120	MPEG-2@Disk with 120GB HD

#### Options

MPG-100-DVIO	IEEE-1394 DV Input/Output
MPG-100-YUV	YCbCr Output
MPG-100-KEYPAD	External Keypad (via RS-232)
MPG-100-SW	Playback Scheduling Software
MPG-100-RMKIT	19" Rackmount Kit (3RU)

### Panel Drawings

#### MPGEG-2@Disk

