DYNAMAX®

The Dynamax DCR1000 Series features simple cart-like operation and requires little or no training. Its durable, maintenance-free design and use of standard 3½" floppy disks to store high quality digital audio will reduce operating costs at your facility. Not only will you achieve consistently excellent audio, but you will eradicate phase errors and wow & flutter.

The DCR1000 saves you money by reducing media expense compared to tape cartridges. It saves money by virtually eliminating the maintenance required of magnetic tape equipment. And it saves money by reducing production time and eliminating common on-air mistakes.

THE PLAYER

The Player has just three front panel buttons - START, STOP, and CUE. A two line by 24 character LCD shows an electronic cart label and a count-up/count-down timer. START and CUE are virtually instantaneous. The player also includes an RS-232 port for logging and machine control as well as conventional remote control of all functions and

indicators. A built-in clock/calendar with battery backup permits inclusion of the date and time in logging entries as well as checking spots against their kill dates. Replay lockout prevents accidental replay without first changing a disk.

THE RECORD MODULE

The Record Module features extended scale peak metering with digital overload indicators. Sampling rates are selectable from the front panel allowing audio bandwidth and storage time to be optimized for each cut.

Dubbing is made easy with the START ON AUDIO feature which allows a variable threshold audio detector to begin the process automatically. When used in conjunction with the AES/EBU digital input, START ON AUDIO allows even a novice to create perfect digital copies the first time. A standard PC/AT keyboard permits titling carts, editing their Secondary and Tertiary cues, end checking, and looping. A Centronics parallel printer port is included for automatic generation of cart labels.

Digital CartridgeMachine

The Recorder
- Selectable sampling rates
- Secondary and Tertiary cues
- Extended scale peak metering
- AES/EBU digital input
- Start on audio
- Direct digital dubbing from CD
- PC keyboard for titling & editing

The Player
- Simple cart-like operation
- No on-air personality training
- Just three front panel buttons
- Instant start and cue
- Maintenance-free design
- No cleaning or alignment
- Awesome audio quality

The Media
- 13MB disk stores over 5 minutes stereo audio with 15kHz bandwidth and 15 minutes mono with 10kHz bandwidth
- Standard low-cost 2MB floppy disk holds 60 second spots

EDITING

Editing is easy and requires only the PC/AT keyboard and the LCD. Audio can be inserted, deleted or moved. Cuts can be resequenced or temporarily suspended from the rotation. Looping is accomplished with just a few keystrokes. Most common production errors can be corrected without requiring a new dub. Editing features can be combined to produce such sophisticated tools as variable length beds.

MAINTENANCE

Operation of the DCR is easily customized. Machine settings are stored in non-volatile RAM and accessed via a setup menu. You can configure everything from timer behavior to STOP lamp flashing according to your preferences.

Maintenance of the DCR1000 Series is a snap. There is nothing to clean or align and no adjustments to make. The disk drive provides over 30,000 hours of service, can be replaced in less than 15 minutes, and costs less than a set of tape heads. Built-in diagnostics and media test aid troubleshooting.

THE MEDIA

Standard, low-cost 2MB computer floppy disks are used for commercials and other short material. Songs up to 5:10 are recorded on 13MB diskettes which cost about the same as premium tape cartridges. 13MB diskettes store up to 15 minutes of voice or AM program material. Both 2MB and 13MB disks operate interchangeably in any player.

Up to 16 cuts can be stored on each disk and automatically played in rotation or selected individually from the front panel. Diskettes preserve audio perfection over their entire lives and last considerably longer than tape cartridges.

ACCESSORIES

Fidelipac offers all of the tools needed to simplify usage of the DCR1000 Series. Accessories include wall mount and carousel style disk storage racks, label printer, disk labels, and pre-formatted floppy disks. A PC/AT keyboard with command template is included with each Record Module.

DCR1000 Media and Accessories
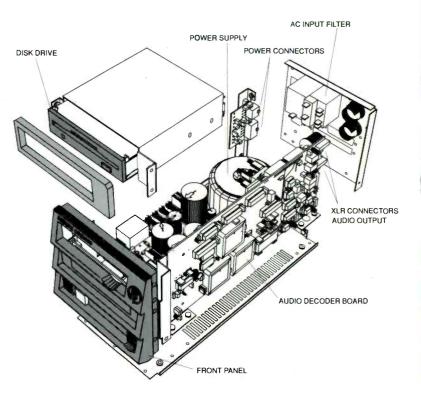
Technical Specifications

Audio:

Inputs	Electronically Balanced
Input Impedance	>10 KΩ
Maximum Input Level	+10 dBu
	Adjustable down to -10 dBu
Digital Input	AES/EBU
Outputs	Electronic Transformer
Output Impedance	47 Ω
Maximum Output Level	+20 dBu
	Adjustable down to -10 dBu
Digital Output	AES/EBU

Frequency Response

44.1 kHz sampling	40 Hz - 20 kHz ±0.5 dB
32 kHz sampling	40 Hz - 15 kHz ±0.5 dB
26 kHz sampling	40 Hz - 12 kHz ±0.5 dB
22 kHz sampling	40 Hz - 10 kHz ±0.5 dB

Dynamic Range	>90 dB
Total Harmonic Distortion (Record/Play @ 1kHz)	<.05%
Crosstalk	
Wow & Flutter	Unmeasurable
Phase Error	

Audio Compression (4:1) apt-X

DISK DRIVE, **POWER SUPPLY**, **AC INPUT FILTER**, **POWER CONNECTORS**, **XLR CONNECTORS AUDIO OUTPUT**, **AUDIO DECODER BOARD**, **FRONT PANEL**

DCR1000 Series Recording Time in Minutes & Seconds				
STEREO	22 kHz	26 kHz	32 kHz	44.1 kHz
2MB	1:14	**1:03**	:51	:37
13MB	7:30	6:25	**5:10**	3:45
Audio Bandwidth	10 kHz	12 kHz	15 kHz	20 kHz
MONO	22 kHz	26 kHz	32 kHz	44.1 kHz
2MB	2:28	2:06	1:42	1:14
13MB	**15:00**	12:50	10:20	7:30

Disk Subsystem:

Mean Time Between Failures	>30,000 hours
Mean Time To Repair	<15 minutes
Disk Life	>3 x 106 passes/track
Media	2MB (HD) 13MB (TD)
Recording Time (Stereo, 32 kHz Sampling, 13MB Media)	5 min. 10 sec.

Physical:

Mounting	Tabletop or 19" Rack
Dimensions	5.5 H x 5.5 W x 12.875 L inches
	14.0 H x 14.0 W x 32.7 L cm
Weight	
DCR1020 Master Player	12.6 lbs (5.7 kg)
DCR1040 Record Module	7.4 lbs (3.4 kg)

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HARRIS ALLIED