

DIGITAL AUDIO CART MACHINE

DigiCart™



360 Systems
Broadcast Products Group

Presenting the Digital Cart Machine

360 Systems' new DigiCart™ is an advanced digital recorder designed from the ground up for use in broadcast. It works exactly like conventional cart machines, but with some notable improvements. DigiCart provides the premium quality sound of digital audio with rugged, removable magnetic disk cartridges.

DigiCart fits right into existing studios without making big changes. It's the same size as today's most popular carts. Audio, remote control and cue signals work the same way they always have. And station personnel don't have to be retrained — one look at

discs and DAT recorders to revolutionize the music industry. It produces ruler-flat response with absolute stereo phase accuracy, no high end roll-off or peaks, no wow and flutter, and no adjustments ever.

A single model of DigiCart provides total format flexibility: Recording can be done in stereo or mono, with sample rates of 48K, 44.1K, 32K, or 22.05K. Different formats can be combined on a single disk, with information including title, running time, and recording format displayed right on the front panel. Each time a new cue is selected, DigiCart automatically

Audio Disks. Over the last ten years, Bernoulli disks and the Bernoulli drive technology have been used by major businesses and industrial firms worldwide. Today, they rank as the *leading* high-density computer backup disk.

Unlike CD's and DATs, DigiCart's Digital Audio Disks provide exceptionally long life in a rugged cartridge enclosure. They can be banged and dropped, but they never skip, and they don't need a protective case for rack storage. With more program material on every disk, DigiCart disks become more economical than standard tape carts. They're more reliable too — they provide the same outstanding audio quality after thousands of plays that they did when first recorded.

Random Access To Every Selection

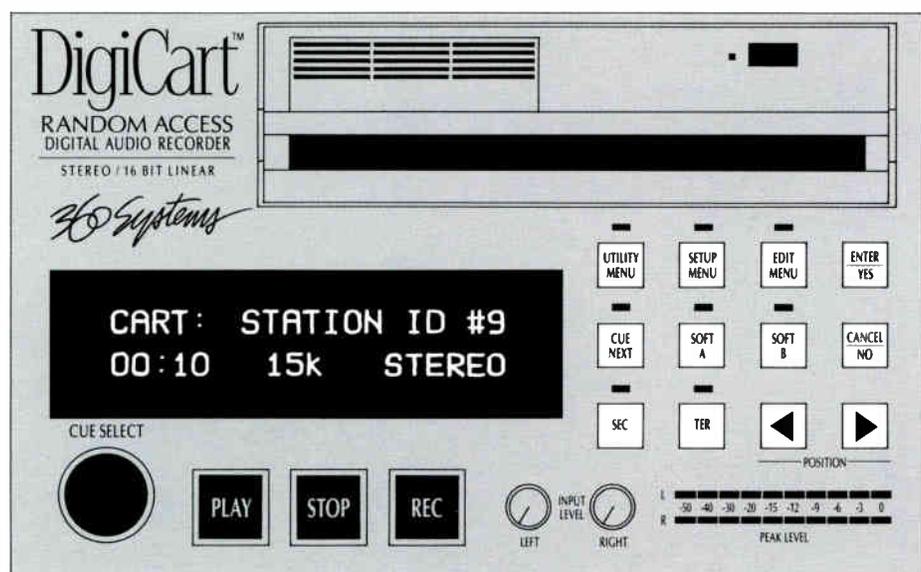
Insert a Digital Audio disk into DigiCart's drive and the first cut is ready to play. A large Cue Select knob makes it easy to dial up additional selections. It's even possible to cue up new selections while playing the first! Cueing time to the next cut — any cut, is immediate.

Expanded Storage Capacity

DigiCarts are designed so it's easy to expand their storage capacity in the field. An optional hard disk providing up to four hours of stereo can be installed inside DigiCart's chassis. For even longer storage times, a companion hard disk enclosure with up to five additional drives is also available. All this adds up to total storage capacity in excess of *two days*, with every cue on every drive available for immediate playback.

DigiCart As A Production Tool

DigiCart's production-oriented features mean more efficient use of



DigiCart and it's clear how it works.

What's even clearer is the on-air sound provided by DigiCart. Now everything from music and jingles to station ID's, commercials, and news actualities can have the extra impact of digital quality that's become so powerful in today's competitive broadcast market.

Premium Quality Digital Audio

DigiCart offers the same 16-bit performance used by compact

reads a "cue header" stored on the disk, and instantly configures itself for correct playback.

For music and jingles, recording at a 48K sample rate will produce an audio bandwidth of 20 KHz. For voice overs and news items, recording at lower sample rates can make the most of storage time, while still delivering excellent digital quality.

Durable Digital Media

A unique advantage of DigiCart is its use of removable Digital

Machine Designed for Broadcast

production time. DJ's will discover DigiCart offers amazing speed and ease of operation for creating wild "morning zoo" effects and

DigiCart's standard serial interface. Stack playback options include seamless follow-on play from a single start command, or sequential

Automation Ready

With DigiCart, it's not just a catch phrase. DigiCart is automation ready, with an EIA-422 serial port using the popular ES-Bus protocols, plus a BCD automation interface and GPI inputs.

The serial port gives *complete control* of all DigiCart functions from an external computer. Broadcast automation and live-assist systems use the DigiCart as a primary storage medium for spots, and provide complete on-screen playlisting. An optional "AT" keyboard provides cue titling and convenient remote control of most DigiCart operations.

Emphasis On Economy

Cue listing and immediate follow-on play features allow a single DigiCart to replace several triple stacks at a fraction of the cost. Just one model of DigiCart has enough flexibility to be used for news, spot production, and on-air

O V E R

Disk Playing Times

Approximate times shown in stereo minutes

Disk Drives	48K (20 KHz)		44.1K (20 KHz)	32K (15 KHz)	22.05K (10KHz)
	Linear	AC-2			
Cartridge	4	21	4	5.5	8
HD-200	20	107	22	30	44
HD-400	36	192	40	55	80

"impromptu" audience responses. News people can transfer their source material, edit it, then organize it for sequential playback and take it straight to the on-air studio.

Digital Audio Disks can be used for quick transfers of audio between different machines in news, production, and control facilities, without the time and quality loss of analog tape. And, an optional digital audio interface will soon be available for direct digital transfers from DAT's, CD's, and digital VTR's.

Non-Destructive Editing

Finally, there's an *economical* way to perform simple production tasks entirely in the digital domain. DigiCart performs head trims, tail trims, fades and even level adjustments of pre-recorded material. All of DigiCart's editing features are non-destructive, so you'll never have to worry about mistakes. Simply re-do your edit until you're satisfied with the result.

Powerful Play-Listing Features

DigiCart's Stack Mode can be used to create play lists of any length and store them on a disk for later recall. There are no limits to the number of cues in a Stack, or to the number of Stacks stored on a disk. Play lists can also be downloaded from a computer, using

playback triggered by commands from an operator, satellite network, or local automation system. When combined with DigiCart's editing features, Stack Mode provides broadcasters with a powerful tool for compiling and editing news items and interviews, creating automatic spot rotation, jingles, promos and music beds.



DigiCart uses rugged, removable Digital Audio Disks.

playback, as well as archiving of source material.

Maintenance is kept to a minimum too — no biasing, alignment, or any of the other usual analog headaches. DigiCart employs modular construction with plug-in PC cards — so even the disk drives can be changed in a matter of minutes.

A Word About Reliability

360 Systems pioneered high reliability digital audio systems for industry ten years ago. We've replaced analog cart machines with modern digital systems throughout the world.

Our only business is high quality digital audio, so we're concerned about our product's "real world" survival. That's why you'll find DigiCart is loaded with the professional extras that make it at home in any broadcast environment; like R.F. suppression on balanced inputs, balanced outputs, and XLR connectors.

Affordable Excellence

On-air digital audio quality has finally become an affordable option for broadcasters. Even with true 16-bit sound and its flexible feature set, DigiCart is priced about the same as mid-line analog cart machines. Which isn't good news for makers of analog cart machines, but is very good news for broadcasters competing in quality-oriented markets.

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Features/Specifications

AUDIO PERFORMANCE

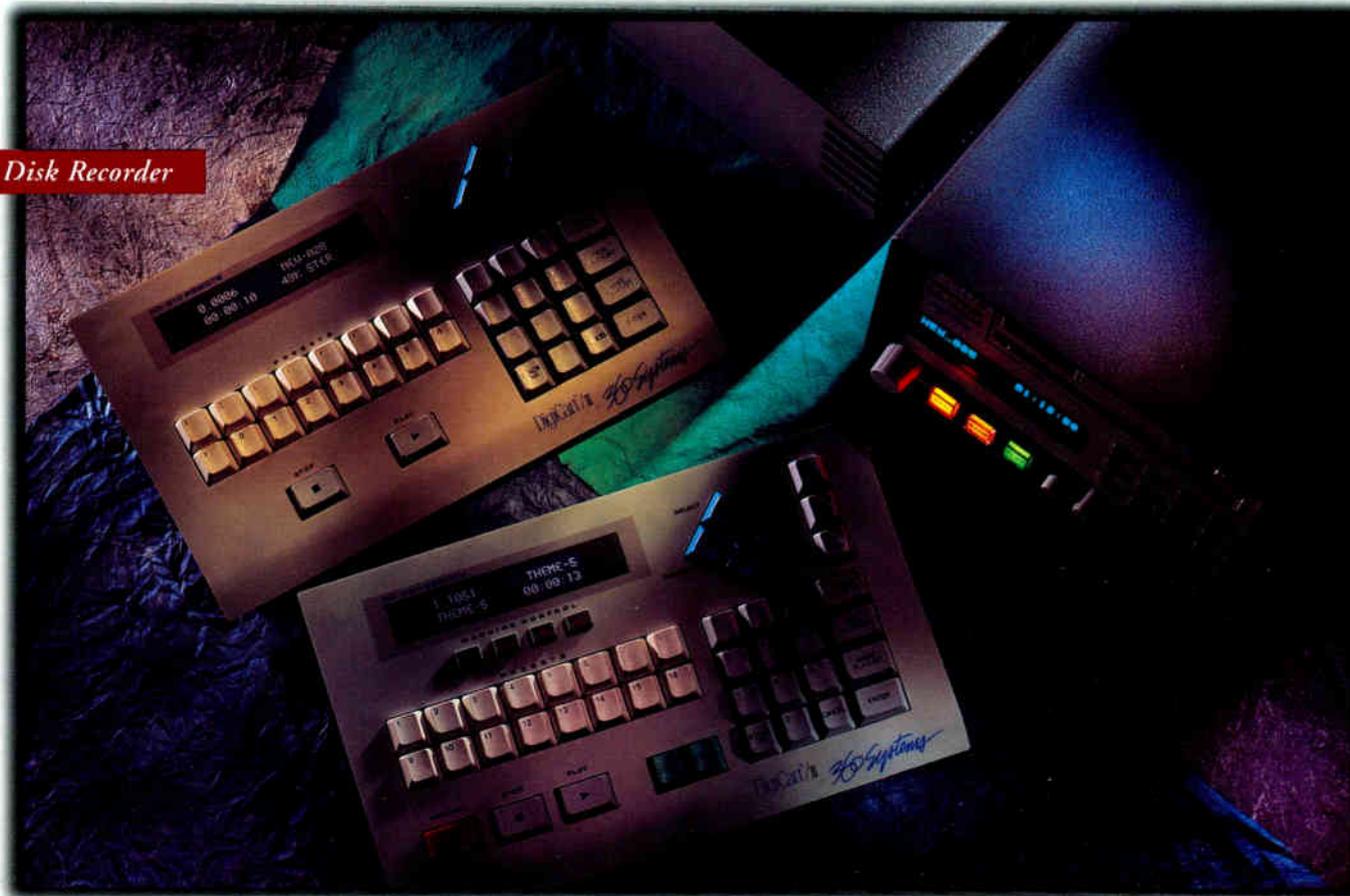
Bandwidth	10 Hz to 20 KHz \pm .5 dB; optionally 15 KHz or 10 KHz
Quantization	16 bit linear
Dynamic Range	92 dB typical
Signal-to-Noise	92 dB typical
Distortion (THD + N)	- 88 dB @ full scale; - 74 dB @ - 20 dB
Interchannel Phase Deviation	<0.1 degree at 15 KHz
Interchannel Crosstalk	>90 dB at any frequency
Input Circuit	Electronically balanced with R.F. suppression; Input Z = 40k ohms each leg; XLR-3 connectors
Common Mode Rejection	Better than 60 dB
Maximum Input Level	+ 18 dBu single ended, + 24 dBu differential
Output Circuit	Phase corrected differential outputs, short circuit proof, RF protected; Output Z = 100 ohms
Maximum Output Level	+ 18 dBu single ended, + 24 dBu differential

GENERAL SPECIFICATIONS

Recording Medium	Removable magnetic disk cartridge
Data Compression	Optional Dolby AC-2 data reduction provides increased digital audio storage
Reliability	Typical media lifetime: >2,500 plays Expected component lifetime: >5 years
Hard Disk MTBF	>250,000 hours, five year warranty
Cartridge Drive MTBF	>60,000 hours
No. Cuts/Cartridge	Unlimited
Start/Restart Time	Instantaneous from any location
Cue to Next Cut	Instantaneous
Cue Outputs (GPI)	Secondary, Tertiary with front panel LED's
Cue Erase/Replace	Secondary and Tertiary cues may be individually erased without playing to their location
Display	Large character 2-line \times 20 character fluorescent
Level Metering	Quasi-Peak responding LED display
Input Controls	Input level controls on front panel
Operating Controls	Play/Record/Stop plus 12 menu related buttons
Remote Control	Standard remote buttons with lamp drive; 25-pin "D" connector
Serial Remote	Full machine control via EIA-422/ES Bus interface; 9-pin "D" connector
Form Factor	3-U half-rack; stand-alone or rack mounting with accessory shelf.
Circuit Cards	Plug-in cards; FR-4 epoxy glass stock, with 94-VO flame retardant rating; Gold plated edge connectors and socketed IC's
Agency Approvals	All AC components UL recognized, FCC approvals pending
Power Requirements	100/120/230 volts, 50/60 Hz, 75 watts

Specifications and pricing subject to change without notice.
AC-2 is a trademark of Dolby Laboratories, Inc.
DigiCart is a trademark of 360 Systems.
U.S. and foreign patents applied for.
Made in U.S.A.

DigiCart/II Digital Audio Hard Disk Recorder



- ALL DIGITAL MEDIUM - PREMIUM QUALITY AUDIO
- INSTANT ACCESS - PLAYBACK WITH ZERO SHUTTLE DELAY
- INTERNAL HARD DISK - UP TO 32 HOURS AUDIO STORAGE
- REMOVABLE HIGH CAPACITY MEDIA - OVER 1 HOUR
- DIGITAL AUDIO WORKSTATION FEATURES - DSP/PRECISE EDITING
- FULL DIGITAL INTERCONNECT - AES/EBU STANDARD
- D-NET - FILE TRANSFER NETWORK

DigiCart/II

360 Systems



DIGITAL AUDIO RECORDING AND EDITING WITH SPEED AND ACCURACY



AFFORDABLE PERFORMANCE AND PROVEN TECHNOLOGY

When 360 Systems first introduced the DigiCart audio recorder, its unique combination of features and attractive price made it an immediate best seller. With DigiCart/II, the benchmark is refined: More powerful software, even greater storage options, and enhanced remote control capabilities.

DigiCart/II earns its keep by doing the work of three machines: a hard disk recorder, a mini audio workstation and a digital cart machine. This impressive combination sets a new standard for versatility and performance.

With singular accuracy, DigiCart/II makes flawless 16-bit recordings, either in linear mode or with Dolby AC-2 data reduction for extended recording times. And in playback mode, it's never been easier to instantly access a vast number of cuts with just a few key strokes. Simply make a selection, hit play—and audio's rolling before your finger leaves the button.

MINI-WORKSTATION

To make things interesting, a variety of workstation features add efficiency and creativity to your work. Like DSP editing functions that produce smooth fades and precision edits, with speed and finesse.

A built-in hard disk turns DigiCart/II into a virtual sound library. And for moving audio between machines, proven Bernoulli disk technology excels in reliability and cost-effectiveness. The transfer rate is speedy too; audio files copy perfectly in the digital domain at an impressive 10-to-1 rate. Additionally, audio files can be moved between machines via the D-NET File Transfer Network at speeds up to 8 times faster than normal.

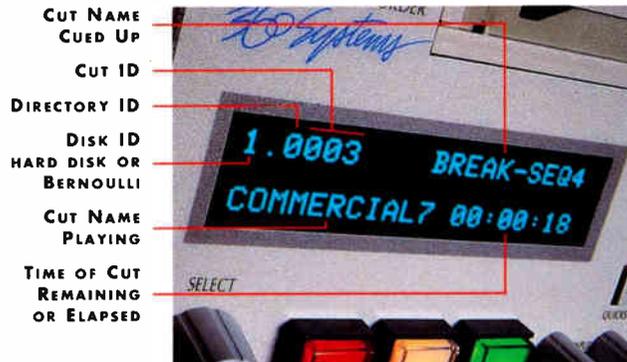
Playback options range from locate-and-play of a single cut, to programmed playlists. To enhance operations, a trio of remote control units expand the playback capabilities in the production studio as well as on-the-air.



INSTANT PLAYBACK



Display Shown with Cut in Cued Position.



Display Shown in Play Mode.

DigiCart/II's instant-access to disks, directories, and audio files clearly illustrates its speed advantage. No waiting for rewind or fast forward cueing. No hunting for a particular cut between leader tapes. Essentially, zero shuttle time.

In operation, the selected cut name (and number) are clearly shown on the display, leaving no chance for a mistake. Once a cut is playing, the next one selected is ready to play on command. The sequence can be automated for follow-on play by hitting the play button before the current cut finishes.

LOOP makes a file play repetitively. As soon as it ends, it restarts without a break. Loops are perfect for background atmospheres and music vamps.

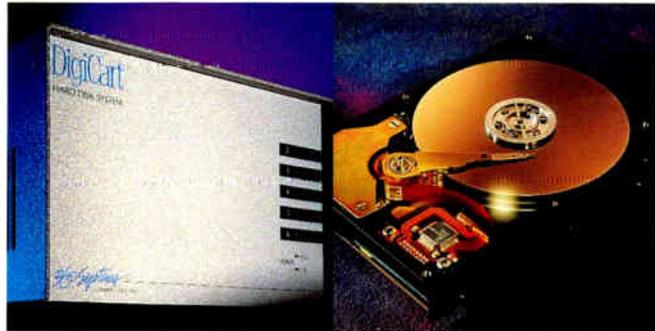
PAUSE puts the machine on hold during record or playback.

PRESET buttons play cuts from a single keystroke, with zero delay. They operate like samplers, producing rapid fire effects and music bits on demand. Up to 16 "Hot-Keys"™ are assignable on the remote control units, and 100 on the accessory keyboard.

RECORDING

RECORDING on DigiCart/II goes far beyond conventional machines. Files of any length— from seconds to hours— are recorded in stereo at 48K, 44.1K, or 32K sampling rates. To expedite the recording process, DigiCart/II drops into record mode when audio is detected at a preset level. Quasi-peak reading meters provide an accurate view of recording levels. And selectable Dolby AC-2 coding yields over five times as much storage, with truly professional audio quality.





HDS Hard Disk System



STORAGE MEDIA

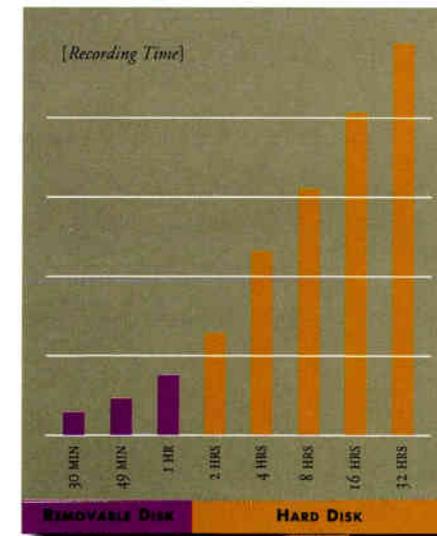
DigiCart/II comes standard with a high reliability hard disk that stores two hours of audio. Greater storage of four to eight hours is available with the mid size disks. And for really big projects, choose from a range of gigabyte-size disks for up to 32 hours of 20 kHz stereo.

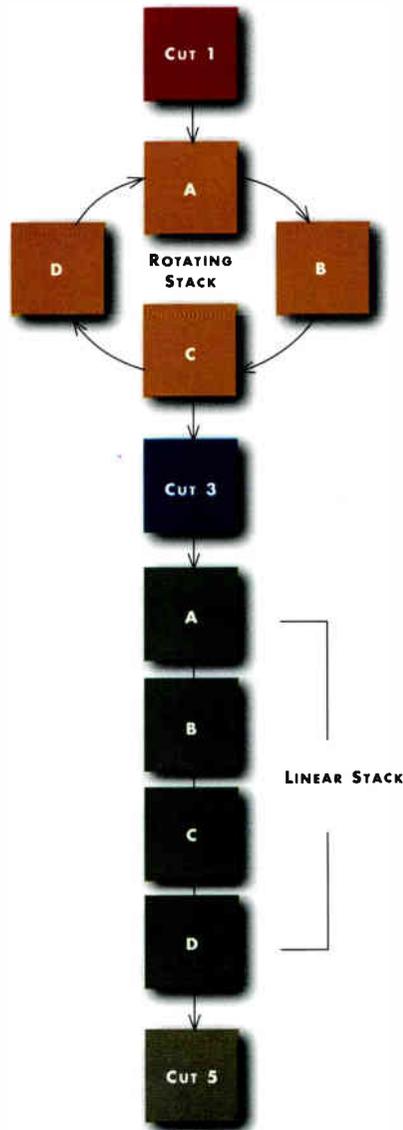
DigiCart/II also sports a field proven multi-format Bernoulli disk drive. The associated removable disks are available in three sizes and offer storage capacities of 30, 49, and 68 minutes each. The disk itself is enclosed in a durable cartridge for protection against rough handling, dust, and heavy use in real world environments.

Removable disks are great for transporting audio files from one machine to another, or for that matter, from one city to another. They're also ideal for archiving and backing up the hard drive— without any quality loss. Bernoulli disks are computer quality, and provide a very attractive price per-minute storage medium.

MASSIVE STORAGE

Expanded storage capacity can be achieved by supplementing DigiCart/II with its companion Hard Disk System. The HDS houses up to five drives for additional storage of 160 hours.





Playlists really show off DigiCart/II's strengths. They do the job of a number of cart machines, better and faster. There's no need for constant loading of endless carts; a few keystrokes have replaced them. What's more, playlists can be previewed before airing, saving time and preventing mistakes.

Essentially, playlisting stacks up selected cuts— somewhat like a high-speed juke box but with seamless transitions between cuts. Stacks of any size can be created in various arrangements.

FOLLOW-ON PLAY quickly assembles a Stack, on-the-fly. While one cut is playing, a single keystroke loads a new cut in the Stack for consecutive playback.

QUICKSTACKS™ are temporary Stacks that play through to completion, without breaks. They're great for on-air use since they're fast to build.

LINEAR STACKS are QuickStacks that have been stored on disk. They can be recalled, edited, and selected for playback at any time.

ROTATING STACKS break after each cut in the Stack. With each play command, the Stack rotates (advances) to the next cut.

COMBO STACKS are a group of linear or rotating Stacks linked together. They're the next best thing to an automation system, since they contain many sequenced cuts. For example, a combo Stack may include a linear stack within a rotating Stack; these may also be tied to individual cuts.



Direct Access™ Remote Controls

Expand DigiCart/II's capabilities with three new remote control units. Each is designed for specific applications and features the basic transport controls as well as individual items like menus, pause, loop and cut select. The remotes select audio files in three ways. First, typing in an index number rapidly locates and retrieves a cut, no matter where it's filed. Alternately, typing in a cut name puts a high-speed search program into action. And, for single-key access, map cuts to the Hot-Keys for immediate playback.

RC-220 REMOTE This full-featured remote control duplicates DigiCart/II's front panel in a low profile, small footprint package. It's designed primarily for production work, but doubles for playback operations as well. Featured are 16 programmable presets for instant playback, and a keypad for rapid cut selection. Control up to four machines from a single RC-220.

RC-210 REMOTE The RC-210 is a simplified control panel, designed expressly for on-air playback operations. Features include rapid playlist selection, 16 user-programmable presets, and cut access by index numbers.

RC-205 KEYBOARD This compact keyboard is perfect for titling directories and audio files. It maps up to 100 presets to Hot-Keys— a powerful feature for production and sound effects applications. Also, all essential DigiCart/II front panel buttons are conveniently duplicated by the RC-205's function keys.

Remote Control Ports

Communication between DigiCart/II and other equipment is easy, thanks to an extensive set of remote control commands and interface options. For simple interfacing, all the necessary elements are supplied for setup of fader starts or custom control panels. GPI inputs control record, stop, and play; with tally lamp drivers available for remote button illumination.

Presets are automatically configured for direct access to 100 separate audio files and playlists, in any combination. For more advanced applications, DigiCart/II's serial port opens the door to a powerful set of command protocols. Complete documentation is readily available for developers and system integrators.

*All Edit
Functions are
sub-frame
accurate to
ensure precise
timing.*

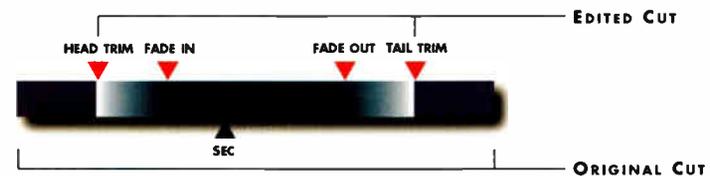


DigiCart/II takes on a new personality as a mini-workstation. Thanks to non-destructive editing, changes to audio files are quick and *completely reversible*.

With pinpoint accuracy, edit markers can be placed and readily auditioned. This applies to head and tail trims as well as fades. If the audio file needs to be restored to its original form, the edit markers are simply reset to their starting positions.

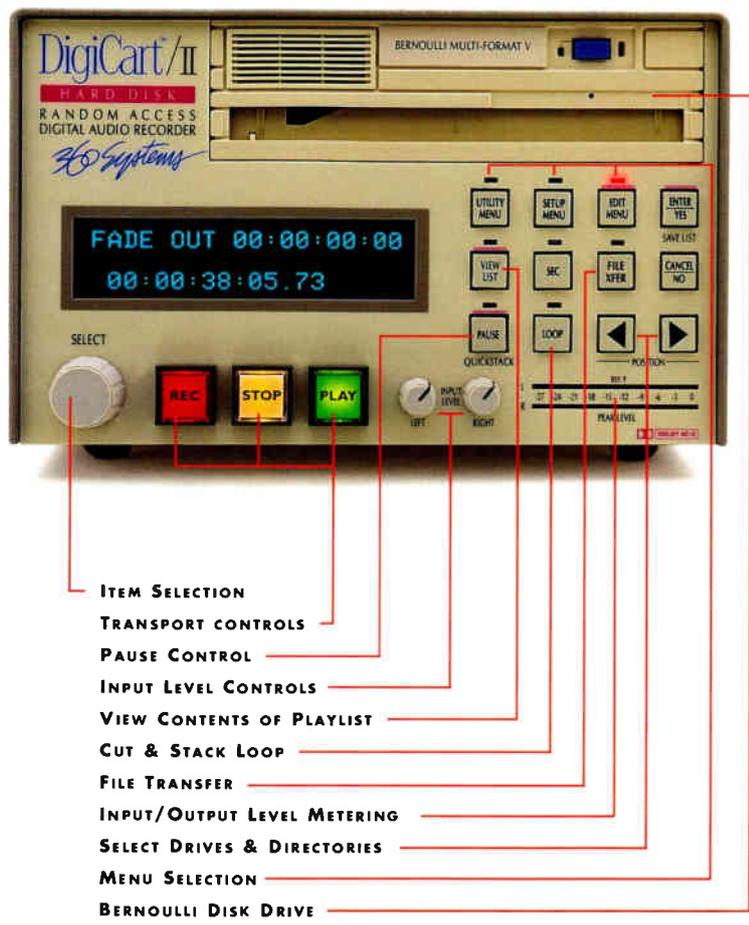
Different edited versions of a recording are made as needed. The new markers are stored as part of the audio file, and are included when copies or transfers are made. Subsequently, edited files can be “cut and pasted” together as playlists, then combined and stored as a single, unique file.

EDIT MENU options include trims, fades, and level sets. During the editing process, edit markers are adjusted until the edits points are just right. **HEAD TRIM** sets the starting point of the cut, and can be used for rapid “roll-ins”. **TAIL TRIM** sets the ending point of a cut. **FADE IN** sets the length of the fade-in. **FADEOUT** sets the length of a fade-out. **OUTPUT GAIN** changes the level setting for each individual cut. Very helpful when level balancing a series of cuts that play together in sequence. **PRE ROLL** provides a roll-in for tail edits, and precise back-timing.



EDITING STACKS (PLAYLISTS)

ASSEMBLE AND INSERT EDITING modes are available for building and editing Stacks. Just like splicing tape, cuts are assembled together as Stacks. As each new cut is added to the Stack, it becomes the last cut to play in the sequence. Alternately, a cut may be inserted between others. The new Stack can be permanently welded into a single cut after editing is completed. **APPEND** adds a new cut to the bottom of the Stack. **INSERT** places a new cut at any position in the Stack. **REMOVE** deletes a cut from the Stack. **TRUNCATE** removes all cuts past a selected point in the Stack.



OTHER MENU OPTIONS

SETUP MENU options determine how DigiCart/II records and plays; how the user interface works; and how information is displayed. **RECORDING FORMATS** – Choose from 32K, 44.1K, and 48K linear sampling rates, or Dolby AC-2 data reduction. **Digital interconnects:** choose AES/EBU or IEC 958/II digital, or balanced analog. **RECORD THRESHOLD** – Recording begins when audio exceeds a selected threshold level. **CUT OVERWRITE** – Replaces an existing cut with a new one. **TIME DISPLAY** – Selects elapsed or remaining time during playback. **RESTART MODE** – Cuts start immediately after a play command, or after the current cut plays to completion. **DIRECTORY SORTING** – Displays cuts in either alphabetical or numerical order. **PRESET ASSIGNMENTS** – Selected cuts or Stacks may be assigned to preset keys on a remote control or computer keyboard.

UTILITY MENU options deal with arranging information. Use them to format, name and number disks or directories, and to copy and delete audio files. The file transfer network set-up and operating modes are also included in this menu heading.

DIGITAL AND ANALOG SIGNALS

Maintaining audio transfers in the digital domain makes every copy a duplicate master, without any loss in quality. Playing back in full-digital mode eliminates digital-to-analog conversions and preserves audio integrity between source and destination.

DigiCart/II employs the industry standard AES/EBU digital audio signal format. These inputs and outputs provide a compatible signal interface to other digital products such as processors, consoles and recorders. DigiCart/II also features IEC 958/II for interconnection with consumer and semi-pro equipment. Front panel menu selections offer a choice between the digital and analog connections.

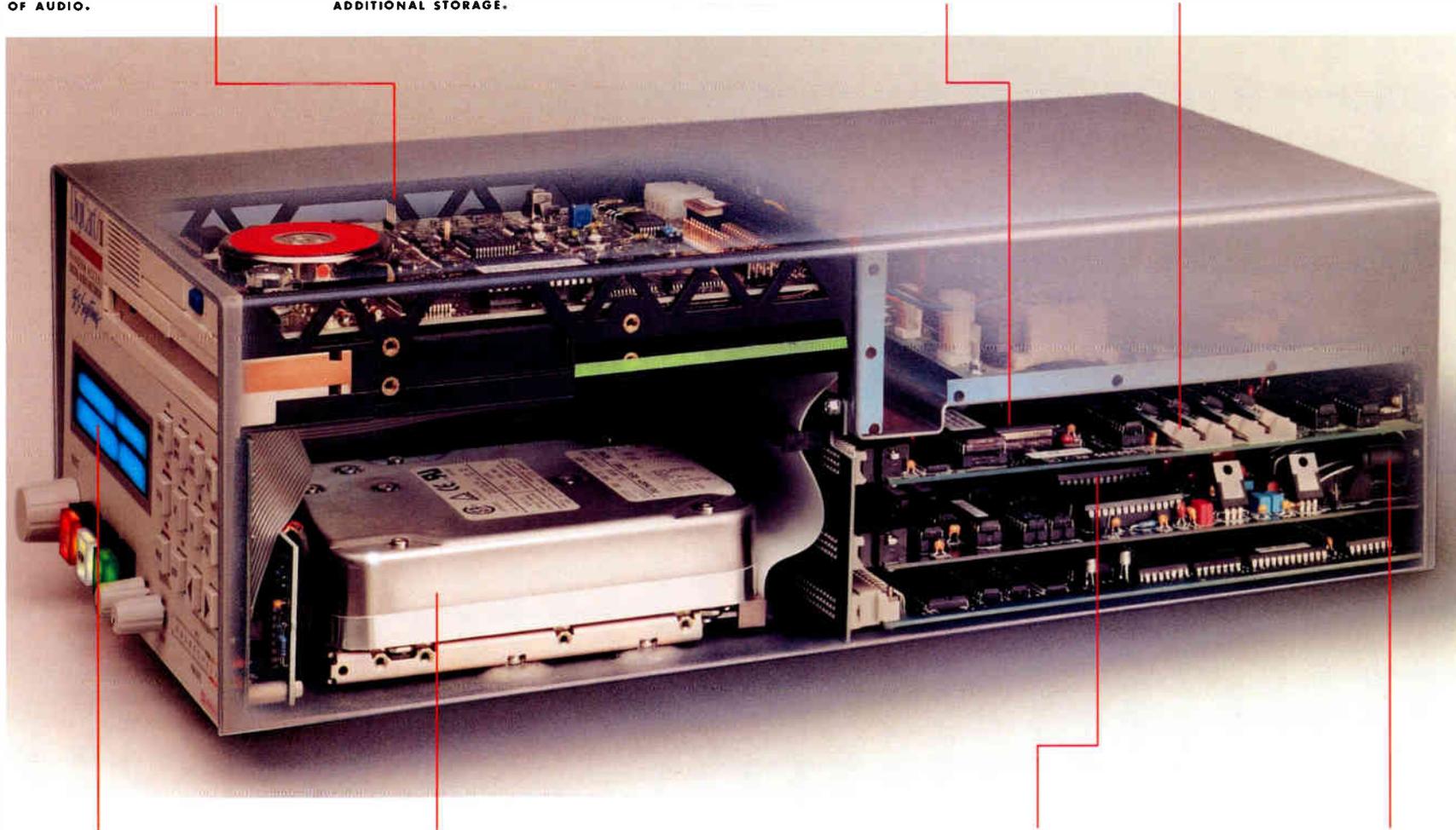
The DigiCart/II digital interface is essential to facilities that wish to keep all audio signals in the digital domain.

FOR RAPID BACKUP, A BERNOULLI HIGH-DENSITY DISK STORES UP TO 150 MEGABYTES OF AUDIO.

IF ALL THE INTERNAL STORAGE ISN'T ENOUGH, THE EXTERNAL SCSI PORT SUPPORTS UP TO 160 HOURS OF ADDITIONAL STORAGE.

WITH ITS POWERFUL 68020 PROCESSOR, DIGICART/II DELIVERS THE POWER NEEDED FOR GREAT RESULTS.

ALTHOUGH 4 MEGABYTES OF RAM ARE STANDARD, YOU CAN HAVE UP TO 32 MEGABYTES TO KEEP PACE WITH FUTURE DEVELOPMENTS.



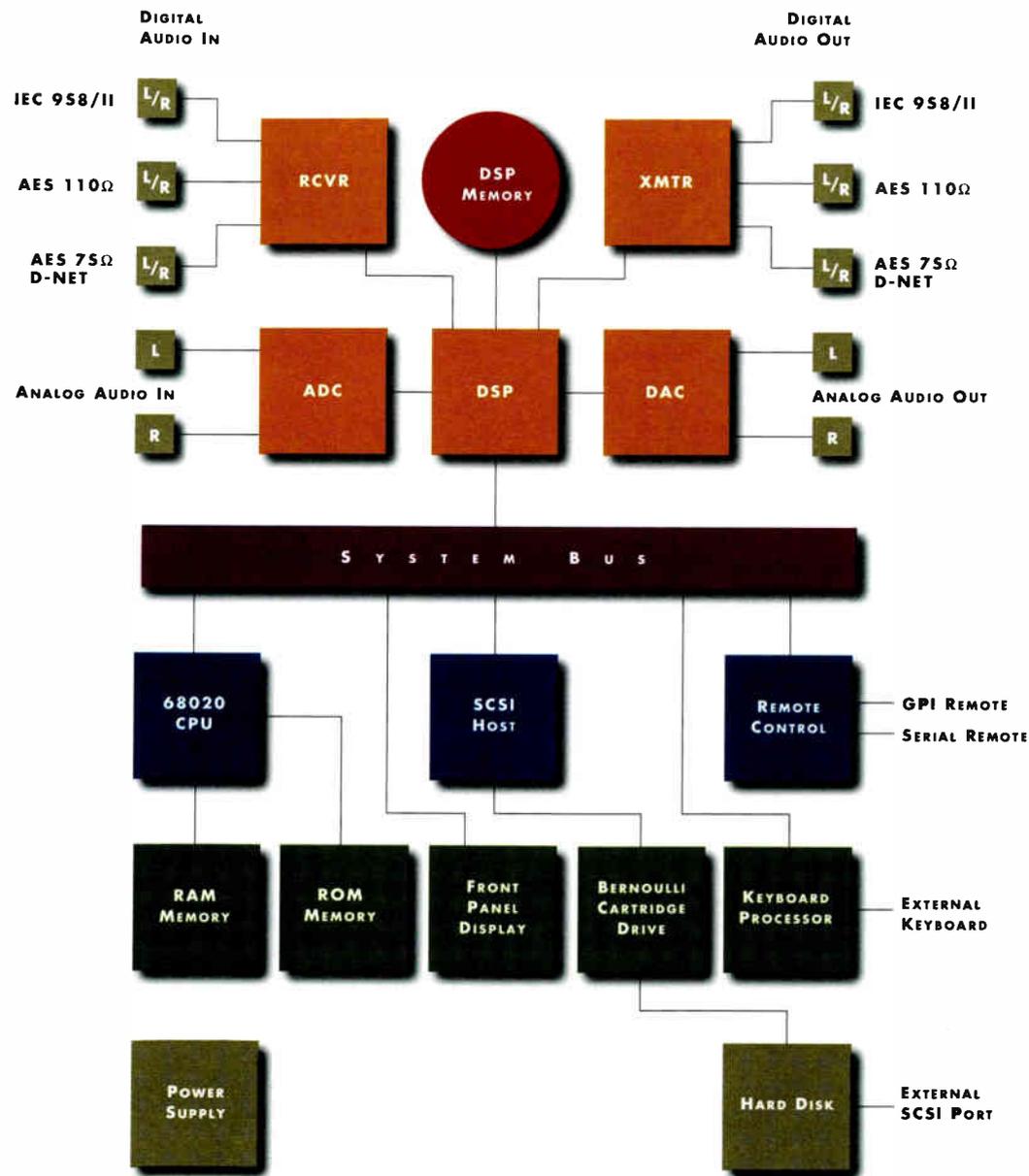
MAKING DIGICART/II EASY TO LEARN WAS DESIGN JOB #1. ITS CLEAN FRONT PANEL AND BRIGHT DISPLAY MAKE IT FAST AND EASY TO USE.

HARD DISK INSIDE! OUT OF THE BOX, DIGICART/II OFFERS DISKS WITH UP TO 32 HOURS OF STEREO STORAGE.

CREATE PRECISION EDITS, SMOOTH FADES AND ACCURATE LEVEL ADJUSTMENTS WITH THE HELP OF MOTOROLA'S DSP56001 DIGITAL SIGNAL PROCESSOR.

AUDIO INS & OUTS INTERCONNECT THROUGH AES/EBU OR IEC 958/II DIGITAL, OR VIA BALANCED ANALOG CIRCUITS.

.....
NO ADJUSTMENTS NEEDED. EVER.



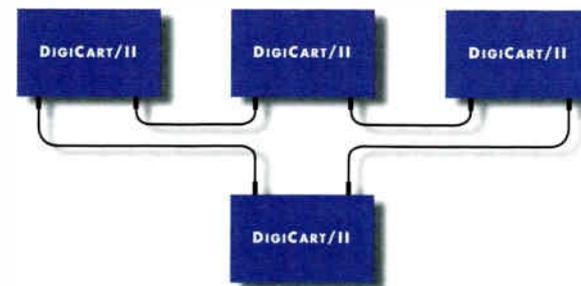
DIGICART/II BLOCK DIAGRAM

The D-NET File Transfer Network is a proprietary software program designed to provide high speed file transfers between DigiCart/II and other 360 Systems digital audio recorders. Multiple machines can be networked to exchange single audio cuts, entire directories, or drives at speeds up to 8 times faster than normal. D-NET operates at all sample rates, and transfers all cut information including audio, file headers and edit markers.

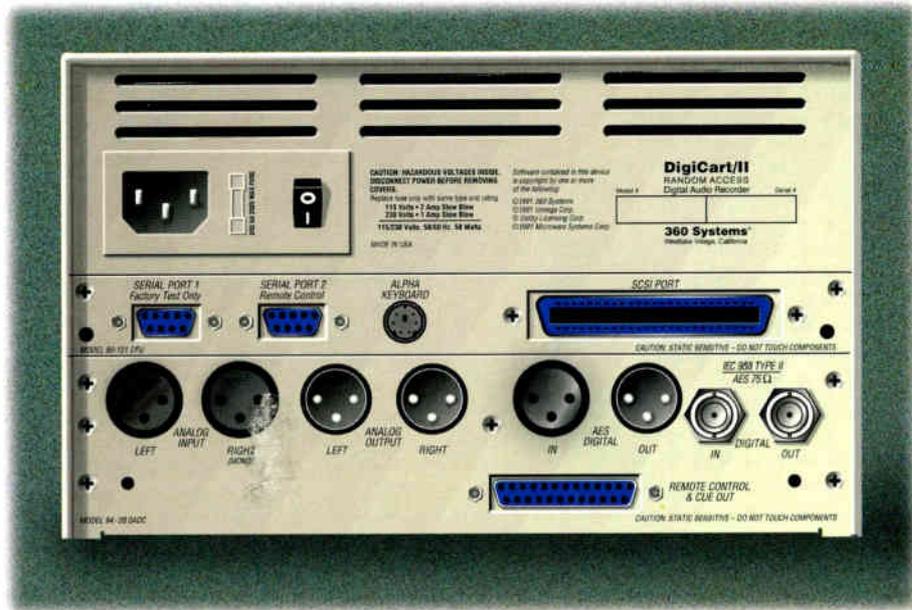
Since D-NET runs on 360 Systems' hardware, third party network cards and terminals are not required. Network management and operations are carried out from the front panel of the machine, doing away with external file servers.

D-NET is an optional feature that can be easily installed on DigiCart/II's that have digital I/O capability. Either the AES/EBU or IEC-958/II ports can be set up as transfer ports. D-NET also supports the proposed AES standard for long haul transmission on 75 ohm coaxial cable.

Each DigiCart/II can be set up to receive transfers at a specific address or it can place incoming transfers in a "mail box". The mail box will accept files and store them consecutively, using open index numbers. Transferred files may later be extracted and relocated to appropriate locations on a hard disk or cartridge drive.



D-NET File Transfer Network, shown in a typical configuration.



APPLICATIONS

Radio Broadcast

Television Broadcast

Production Studios

Television Production

Film & Video Post

Theater

Theme Parks

Sports Arenas

DigiCart/II

360 Systems[®]

PROFESSIONAL DIGITAL AUDIO

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<http://www.360systems.com>

ELECTRICAL AND MECHANICAL SPECIFICATIONS

AUDIO SPECIFICATIONS

BANDWIDTH	10 Hz to 20 kHz \pm 0.5 dB; optionally 15 kHz @ $F_s = 32,000$
QUANTIZATION	16 bit linear
SAMPLING FREQUENCIES	48K; 44.1K; 32K; Stereo or Mono
DATA REDUCTION	Selectable Dolby AC-2, at 48K stereo only
DYNAMIC RANGE	92 dB
DISTORTION (THD+N)	< 0.005% ref. to full scale
INTERCHANNEL PHASE DEVIATION	< 0.1 degree at 15 kHz
INTERCHANNEL CROSSTALK	> 90 dB at any frequency
ANALOG INPUT CIRCUIT	Electronically balanced with RF suppression; Input Z = 40k ohms; XLR-3 type connectors
COMMON MODE REJECTION	Better than 60 dB @ 120 Hz
MAX INPUT LEVEL	+21 dBu single ended, +27 dBu differential
ANALOG OUTPUT CIRCUIT	Phase corrected, short circuit proof, RF protected differential outputs
MAX OUTPUT LEVEL	Output Z = 100 ohms. XLR-3 type connectors +16 dBu single ended, +22 dBu differential
DIGITAL INPUTS	AES/EBU*, XLR-3 type Conn., 110 ohms; BNC Conn., 75 ohms; IEC 958 Type II, BNC type connector w/ RCA adapter
DIGITAL OUTPUTS	AES/EBU*, XLR-3 type Conn., 110 ohms; BNC Conn., 75 ohms; IEC 958 Type II, BNC type connector w/ RCA adapter

GENERAL SPECIFICATIONS

NETWORKING	D-NET file transfer format on AES ports
REMOVABLE CARTRIDGE	Bernoulli magnetic disk cartridge; 65, 105, 150 MB capacity
CARTRIDGE DRIVE RELIABILITY	MTBF > 175,000 hours
CARTRIDGE RELIABILITY	Typical media lifetime: > 2,500 plays
HARD DISK RELIABILITY	MTBF > 250,000 hours
DISPLAY	2-line x 20 large character fluorescent
METERING & LEVEL CONTROLS	Quasi-peak responding LED display; controls on front panel
GPI REMOTE CONTROL	Remote contacts with return lamp drive
SERIAL REMOTE CONTROL	Full machine control via EIA-422
CUE CONTROLS	ES-Bus interface; 9-pin D connector
CUE ERASE	Secondary with LED; relay contacts on 9-pin D connector
PHYSICAL DIMENSIONS	Cues may be individually erased without playing to their location
NET WEIGHT	5.19" x 8.50" x 17.13" (130 x 213 x 428 mm)
POWER REQUIREMENTS	3RU half-rack width
COUNTRY OF ORIGIN	18.25 lbs. (8.3 kg)
	115/230 volts, 50/60 Hz, 75 watts
	USA

Specifications are stereo, 20 kHz bandwidth, linear coding unless otherwise noted.
All Specifications subject to change without notice. *AES3-1992 / EBU Tech 3250-E (1985)

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