

Short/cutTM 2000

PERSONAL AUDIO EDITOR



Shortcut 2000 Audio Editor

Short/cut 2000TM Hard Disk Recorder/Editor

Features

- ▶ New Short/cut 2000 performs split-second editing
- ▶ Waveform editing includes Cut, Copy, Insert, Erase
- ▶ DSP engine performs Fades, Crossfades, Gain Changes
- ▶ 10 Hot-Keys for instant replay of clips
- ▶ Completely self-contained with built-in speakers

360 Systems' new Short/cut 2000 Editor uses modern hard disk technology to replace earlier analog and digital tape machines. Its advanced feature set is designed for rapid operation in broadcasting and other professional audio settings.

Intuitive Operation

Short/cut 2000's operating controls combine the best features of tape machines and popular word processors. The result is an intuitive audio recorder/editor that helps creative professionals work quickly, with almost no training.

Short/cut's dedicated buttons make the difference. Its hands-on approach to editing provides excellent control of the editing process, and is easier to use than computer-based systems.

The weighted jog wheel provides an outstanding simulation of tape reel "scrub" editing, while a large waveform display assists with critical editing decisions. One-handed editing is easy, thanks to Short/cut's unique grouping of edit-function keys.

Advanced Digital Editing

Short/cut 2000's new operating system precisely edits every kind of program material. Editing features include Cut, Copy, Insert, Erase, Fade in and out, Cross-fade, Level change, and many single-track operations.

Best of all, the new Short/cut 2000 is *fast*. New file conversion utilities also let Short/cut 2000 interface with most DAWs. It can read and write WAV, BWF, SD-2 and

AIFF file formats on both PC and Mac[®] disks. And to archive finished work, an external Zip[®] drive can be connected at the rear panel.

Organized Storage

The Short/cut 2000 is more than just an editor. Storing 12 hours of stereo audio, it keeps important clips on-line and ready to play. And locating a single cut among 1,000 is easy. Just scroll through directories with the wheel, or simply type a name on the built-in keyboard for instant access. To help organize recordings, Short/cut provides ten directories, each with password-protection, so many users can share a single machine.

Instant Replay[®] Hot-Keys

Fast access to edited clips is a key part of Short/cut's design for broadcasting. Its Hot-Keys can immediately play up to ten stored audio segments—perfect for on-air playback of news and phone calls. The Hot Keys also make convenient clipboard memories when editing.

A Broadcast Original

Since 1996, more broadcasters have chosen 360 Systems' Short/cut than any other desktop editor. For complete specifications and application information, log on to www.360systems.com.

360 Systems[®]

PROFESSIONAL DIGITAL AUDIO

Use Short/cut 2000 On-Air with Speed and Confidence

Fast Recording for On-Air Shows

Events happen fast in broadcasting. So we've given Short/cut 2000 the ability to enter RECORD mode immediately, no matter what mode you're working in. New recordings can be titled using the built-in QWERTY keyboard, or if you're in a hurry, cuts will be auto-named for you.

Even Faster Editing

Once you've completed a recording, it's easy to precisely locate edit points:

- A large scrub wheel provides an outstanding simulation of rocking a tape reel, while an illuminated LCD shows large waveforms with variable zoom resolution.
- Just like a word processor, segments can be highlighted for basic cut-and-paste operations. With Short/cut 2000's more advanced capabilities, selected regions can also be previewed, looped, gain adjusted or moved.
- Individual ARM buttons even permit single-track editing and insert recording, for greater flexibility in preparing news interviews and call-in segments.

Short/cut 2000 is considerably faster than the original Short/cut Editor. Most editing operations now execute about as quickly as you can press the buttons. (If you own an "original", we offer a field upgrade kit giving it the same high-speed operation.)

Short/cut 2000 is also easy to operate, thanks to many small design details. For example, edit marks can be placed on the fly during recording or playback to identify regions for instant access in the future. A FIND command can locate directly to any point in a recording. And to quickly retrieve a file, just type its name on the built-in keyboard. There's even a ZERO MARK, just like "reset" on a tape machine.

Real Buttons for Every Function



Short/cut 2000's real buttons make it faster to use than a computer editor, and make it easier for non-technical staff to produce polished audio. The buttons are arranged in several logical groups:

- Transport controls include RECORD, PLAY, STOP, PAUSE, FAST-FORWARD and REWIND.
- Edit buttons include CUT, COPY, INSERT, ERASE and UNDO. In addition, EDIT-IN, EDIT-OUT, MARK, GO-TO and FIND keys are used to mark and locate segments during edit operations.
- Even minor items like SAVE, DISPLAY ZOOM and LOOP are presented as real keys.

Your Choice of Removable Media

With the Short/cut 2000, recordings can be copied to a variety of cartridge disks, and removed just like a reel of tape. It's easy to archive them, export them to



other 360 Systems products, or using built-in file translation programs, play them on equipment from other manufacturers.

A parallel-port (25-pin D) is provided as standard equipment, and connects to drives having this interface. (An optional SCSI card is available on special order to

connect drives employing that standard. The SCSI card can be added after taking delivery on your Short/cut 2000. See the order form under accessories.)

Choices for removable media include the popular 100MB and 250MB Zip disks, which can store dozens of sound effects or music cues at low cost.

Bigger projects can be stored on the 2-Gigabyte Jaz disk, with over 2 1/2 hours of audio! Just select a style of disk that matches your storage needs.

Short/cut 2000 also records almost 12 hours of stereo on its internal hard disk, affording substantial on-line storage for work in progress, and for finished programs going to air.

Cost Effective File Transfers

An exclusive feature of the Short/cut 2000 is 360 Systems' D-NET File Transfer Network.

D-NET uses standard AES digital outputs to transfer files to other 360 Systems products for playback. Transfers include cut names, ID numbers, running times, and formatting information.

Take it on the Road

You can travel with confidence, thanks to Short/cut 2000's rugged construction. And at just under twelve pounds, it goes everywhere you go. Just plug it in and go to work. Short/cut 2000 operates from any of the world's voltages and includes built-in stereo speakers and a headphone jack. Unlike many PC editors, Short/Cut 2000 has balanced analog connections on XLR connectors, and AES/EBU digital interfaces for a seamless connection to professional equipment.

The Short/cut 2000 Editor is equally at home in radio broadcast or TV production. It's the first choice of audio professionals in 60 countries around the world.

New Editing Features of the Short/cut 2000

How Fast is it?

360 Systems' new Short/cut 2000 edits with unprecedented speed – every editing operation is many times faster than the original model. Plus, you get the convenience of Short/cut's direct-access buttons. Now, editing is virtually instantaneous, so even the most demanding projects can be completed in record time.

If you haven't experienced the speed and ease a Short/cut 2000 Editor can bring to your studios, it's time to take another look.

Short/cut 2000 Includes These New Editing Features*

Since Short/cut Editors first appeared, we've worked hard to add many new features our customers asked for. If you're familiar with the original Short/cut (before our "99" model), you'll be interested in its new capabilities. And if you already own any Short/cut Editor, you can easily upgrade to full Short/cut 2000 status!

Fade In and Fade Out

Applying the FADE IN or FADE OUT command will fade audio smoothly to or from silence. Just select the region to be faded using the Edit In and Edit Out marks. Fades are completely non-destructive, so it's easy to try different lengths.

Relative Fades

Now it's possible to create a transition from one audio level to another, over a selected span of time.

Gain Adjustment

Raise or lower the level of a selected region of audio, with adjustable transition-time ramps to the entry and exit points.

Crossfade Edits

When performing a Cut or Insert operation, a crossfade can be placed across the edit. A Cut executed with crossfade removes selected material, and places a crossfade across the edit point. Similarly, an Insert will crossfade to and from the original material. Crossfade length is completely adjustable.

External Sample Rate Synchronization

Short/cut 2000's sample clock can now be synchronized to an external reference, for perfect synchronism with external equipment. Use either of the AES/EBU inputs.

File Translation and File Exchange Capability

Short/cut 2000 will import and export audio files in many popular formats, including WAV, BWF (broadcast wave, which includes titles), AIF, SD-2, 360 Systems Instant Replay® and 360 Systems DigiCart® formats.

Using Short/cut 2000 with Personal Computers

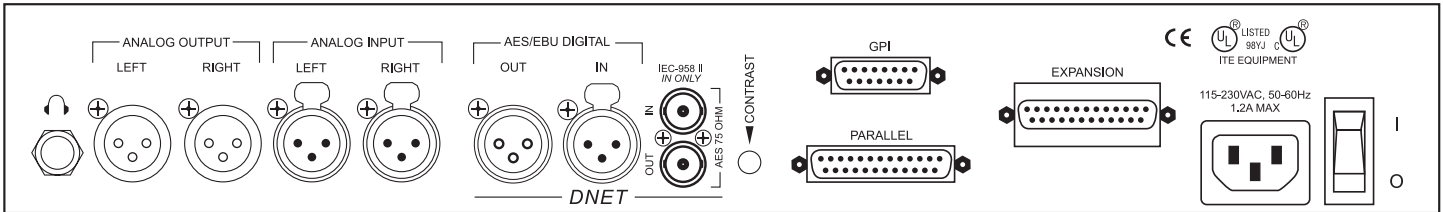
If you're using a PC, Mac, or another audio workstation, you'll be able to share audio files with Short/cut 2000. It reads and writes Zip® and Jaz® disks in DOS or HFS (Mac) formats, at 44.1k or 48k. Using e-mail and a personal computer, professional quality audio can be remotely recorded and transferred to (or from) any Short/cut 2000. Sound effects, music clips or news stories are as close as a telephone line. And with Short/cut editors, audio quality is far superior to MP3- format audio.

Details

A new "D-NET Echo" feature lets Short/cut pass D-NET transmissions through to any other DigiCart/II or Instant Replay recorder in the network.

Bleep can now be set to any of four output levels, or to silence.

** Many of these features were included in the Short/cut '99 model. Speed improvements are unique to Short/cut 2000.*



Short/cut 2000 Personal Audio Editor

Specifications

AUDIO PERFORMANCE

Audio Format	2 independent channels
Frequency Response	20 Hz to 20 kHz \pm 0.5 dB
Quantization	16 bit linear (not compressed)
Sampling Frequencies	48 kHz; 44.1 kHz
Signal-to-Noise Ratio	> -90 dBFS (A-weighted)
Distortion (THD+N)	< .004% at 1 kHz
Common Mode Rejection	-80 dBFS @ 60 Hz
Analog Input	Balanced, XLR-3 connectors; Z=10k Ω
Maximum Input Level	+26 dBu
Analog Output	Balanced, XLR-3 connectors
Maximum Output Level	+22 dBu
Digital I/O	1. AES/EBU, XLR-3 connectors (110 Ω) 2. AES-3ID, BNC connectors (75 Ω) 3. IEC-958 Type II, BNC connector (75 Ω), input only

GENERAL SPECS

File Transfer	D-NET file transfer protocol on AES output
External Drive Port	Parallel port standard, SCSI port optional
Hard Disk Storage Capacity	12 hours stereo @ 44.1 kHz, linear PCM
Record Functions	Record, Insert Record (track selectable)
Edit Functions	Cut, Copy, Insert, Erase (track selectable)
Crossfades	Variable 1 ms – 30 seconds
Gain Edits	Fade in, fade out, relative fade
Locate Markers	500 maximum per recording
Hot-Keys	10 per directory, individually programmable
Display	Bit-mapped backlit blue LCD
Display Modes	Single/dual waveforms; elapsed or remaining time
Display Scale	Zoom selectable for 2, 5, 10 or 20 seconds
Audio Level Metering	Peak reading 2 channel LED bar graph
Panel Buttons	Illuminated, silent action
Input Level Control	Dual front panel trim pots with Arm/Select
Headphone Output	Stereo 1/4" (6.35mm) jack, with level control
Monitor Speakers	Two 4" (100mm) speech range, with level control

MECHANICAL/ MISCELLANEOUS

GPI/O Remote Control	Contact closure inputs with tally lamp output; 25-pin D connector
Dimensions (HWD)	3.7" x 17.25" x 12.8" (94mm x 438mm x 325mm)
Weight	12.5 lb (5.7 kg)
Power Requirements	90 to 250 volts, 50/60 Hz, 20 watts
Agency Approvals	UL, C-UL, CE, FCC
Country of Origin	USA

Accessories



Padded Gig Bag



Optional SCSI port for external drives

