

Table of Contents

Chapter 1: Introduction	1-1
Chapter 2: Basic Operation	2-1
Chapter 3: Job Control Screen	3-1
Chapter 4: Console	4-1
Chapter 5: The Editor	5-1
Chapter 6: The Mixer.....	6-1
Chapter 7: The Real-time Effects	7-1
Chapter 8: Tips and Effects	8-1
Chapter 9: DAT Archive Option	9-1
Chapter 10: Jaz Drive Option	10-1
Chapter 11: Digital Archive Option	11-1
Chapter 12: TimeCode Option.....	12-1
Chapter 13: Cart Options.....	13-1
Chapter 14: Installation	14-1
Chapter 15: Troubleshooting Guide.....	15-1
Specifications	S-1

Chapter 1

Introduction

Introduction	1-2
Please Read This Chapter	1-2
What You Shouldn't Do.....	1-3
How To Use This Manual	1-3
How To Ignore This Manual (Using Online Help).....	1-4
Online Help	1-4
A Word About Style	1-4
Here Are The Basics	1-5
Job Controller Screen	1-5
Editor and Mixer Screen.....	1-6
Navigating Through Menu and Submenu Choices	1-7
Source and Destination Buttons.....	1-8
Undo and Esc Buttons	1-9
Audicy Keyboard	1-9
Congratulations!.....	1-10

Chapter 2

Basic Operation

Power Up.....	2-2
Starting Your First Production	2-3
Moving Through Menu and Submenu Choices.....	2-3
Creating A Production That Will Be Save On Disk	2-3
Creating A Temporaty Production (That Won't Be Saved On Disk)	2-4
Using Faders and Knobs To Change Levels and Panning	2-5
Recording.....	2-6
Input Selection (Input Button).....	2-6
Input Routing (Alt+ Input Button).....	2-7
Monitoring with the L/R Input Buttons.....	2-7
Setting Levels	2-7
Checking Memory Capacity	2-8
Bounce Recording Versus Normal Recording	2-9
Normal Recording	2-9
Checking The Recorded Material.....	2-10
Editing	2-10
The Instant Guide to Instant Editing: Using the Cut Feature	2-11
Editing Tips	2-12
Cutting Versus Erasing	2-13
Using Leader To Make A Sound Happen Later.....	2-13
Copying A Sound	2-14
Copy	2-15
In Versus Copy Over.....	2-15
Back-Timing.....	2-16
Move In, Move Over.....	2-17
Loop In, Loop Over	2-18
Swap Track, Swap Range.....	2-18
Mixing.....	2-18
Finishing Your Session	2-19
Onward.....	2-20

Chapter 3

Job Control Screen

Finding Your Way Around	3-2
The Job Control Screen.....	3-2
Job Control Screen Map.....	3-4
Using Input Forms.....	3-4
Keyboard.....	3-5
Production Manager	3-6
Make New	3-6
Sidebar: The Shadow Knows	3-8
Make Temp	3-11
Edit Old	3-11
Edit Notes	3-12
Copy	3-13
Rename	3-14
Sort	3-14
DAT Backup/DAT Restore/Prepare DAT.....	3-15
Erase	3-16
Library Manager	3-16
Make Cart	3-16
Import Wave/Export Wave.....	3-17
Copy	3-19
Rename	3-19
Sort	3-19
DAT Backup/DAT Restore/Prepare DAT.....	3-20
Erase	3-20
System Utilities.....	3-21
Check Up and Optimize	3-21
Warning!	3-23
Check Up	3-25
Optimize.....	3-26
Prep Disk	3-27
Defaults.....	3-27
Print Manager	3-31
Information Center.....	3-32
About	3-32
Disk Usage	3-33
DAT Usage	3-34
Shutting Down	3-35

Chapter 4: Console

Introduction	4-2
Find Your Way Around the Console	4-3
The Mixer and Effects Controls	4-3
Navigation Controls	4-4
Utility Buttons and Numeric Keypad	4-5
Transport and Editing Controls	4-5
Using Shortcut Buttons	4-7
Keyboard	4-7
Mixer Controls	4-8
Faders	4-8
Channel Play Buttons	4-9
Left/Right Input Play Buttons	4-9
Record Ready Button	4-9
Effects Insert	4-10
Parameter Control	4-11
Mute Button	4-12
A/B Button	4-12
Transport Controls	4-13
Scrubwheel	4-13
Stop and Play Buttons	4-13
Record Button	4-15
Rewind and Fast Forward Buttons	4-16
Locator Controls	4-18
Locate Buttons	4-18
Edit Controls	4-22
Source In and Source Out	4-22
Destination In and Destination Out	4-25
Loop Play	4-29
Multi-Trimming and Three-Point Editing	4-29
Navigation Controls	4-32
Scrubwheel	4-32
Arrow Buttons	4-32
Head and Tail	4-34
Enter Button	4-34
Undo	4-34
Escape	4-36
Help	4-37
Button Combinations For Power Users	4-38
Keyboard Equivalents	4-41

Chapter 5

The Editor

Editor Screen.....	5-3
Track Display.....	5-4
The Status Bar	5-5
Overview Window.....	5-6
Job Windows	5-6
Parameter Control Status (Upper Job Window)	5-6
Production Name and Sample Rate (Lower Job Window).....	5-7
Message Window	5-7
Fuel Gauges.....	5-8
Splice Memory (upper Fuel Gauge)	5-8
Audio Memory (lower Fuel Gauge).....	5-
Meters	5-9
Over	5-10
Split Output Meters	5-10
Input Routing Indication	5-11
Edit Points	5-11
Menu Choices	5-11
Working With Menu Choices	5-12
Working With Forms	5-13
The Editor Menu.....	5-14
Editor	5-14
Leader.....	5-14
Cut, Erase.....	5-14
Copy In, Copy Over, Copy Self	5-15
Move In, Move Over.....	5-16
Loop In, Loop Over, Loop Self	5-18
Fade Up and Fade Down	5-19
Swap Track.....	5-20
Swap Range	5-20

Studio Menu Choices	5-21
Splices	5-21
45°	5-22
90° Butt.....	5-22
1/2"	5-22
2"	5-22
Library.....	5-23
Library Save.....	5-23
Dub In, Dub Over	5-24
Library Erase.....	5-25
Time-Fit In, Time-Fit Over	5-26
Pitch In and Pitch Over	5-32
Varispeed In and Varispeed Over	5-34
Flip In and Flip Over.....	5-35
Patch Bay Menu Choice	5-35
Auto A/B.....	5-35
Record Mode	5-36
FX Mute	5-39
Phase Invert.....	5-39
FX Patch	5-40
IO Setup, Analog, AES/EBU, SPDIF	5-40
Chase Setup, Machine Control, VTR Setup	5-40
Map Tracks	5-40
Name Tracks	5-41
Read Patch, Save Patch	5-41
System Menu Choices.....	5-41
Notepad	5-42
Scrub	5-42
Shadow.....	5-43
Quit	5-43

Chapter 6

The Mixer

The Mixer Screens	6-2
The Basic Mixer	6-2
The Extended Mixer	6-4
Switching Between The Screens.....	6-5
Mixer Menu Choices.....	6-5
Mixer, Mixer Toggle.....	6-6
Display	6-6
Gain and Pan menu choices	6-6
Sub and Aux Pre/Post.....	6-6
Input Route	6-7
Save Mixer, Read Mixer	6-7
Save Default and Read Default.....	6-8

Chapter 7

The Real-Time Effects

Audicy Effects Engine: Introduction	7-2
The Effects System	7-3
Insert Patchpoints: Track, Submix and Output	7-3
“Turning On” an Effect	7-4
Tuning The Sound Of An Effect	7-6
Finishing Your Effects Setup	7-10
Working With Effects	7-10
How To Put An Equalizer Or Other Effect On A Channel	7-10
Using A Submix To Add Echo Or Reverb To Your Mix	7-11
Using External Effects	7-13
Add An Effect To Just One Part Of A Track	7-13
Recording A Track With An Effect	7-14
Instructions for Specific Effects	7-15
Equalizer Settings	7-15
Compressor Settings	7-16
Reverb Settings	7-19

Chapter 8

Tips And Tricks

Tips & Tricks	8-3
Tips For Using The Audicy Library	8-3
Don't Need No @#\$% Cart Machine.....	8-3
Sort Of Tricky.....	8-3
Space-saver.....	8-4
Time-saver.....	8-4
Save Time: Save Tone.....	8-4
Sound An A.....	8-5
Keep It Clean	8-5
Editing Tricks.....	8-5
Toss Your Timer	8-5
Keep A Dub Handy	8-5
Deadrolling Along.....	8-5
Neaten Your Bed, One.....	8-6
Neaten Your Bed, Two.....	8-6
Neaten Your Bed, Three	8-6
The Pause That Underscores	8-7
Tick Talk	8-7
Lack Of Noise Annoys.....	8-8
Tricky Trimming	8-8
To The Max.....	8-9
Hello... lo... lo...? One	8-9
Hello... lo... lo...? Two.....	8-11
Hollow, One	8-11
Hollow, Two	8-12
Hollow, Three	8-13
Mr. MS	8-13
Big Sound	8-14
Solo, You Can't Get Over It.....	8-14
Phasers... On!.....	8-14
Speak Up!	8-15
Boost Your Input	8-15
Speak Up Or Down, Smoothly	8-16
Zig-Zag Cuts	8-16
Tape Measure	8-16
Fade Out.....	8-17
Custom Crossfade	8-17
mooZ...Zoom	8-17
Zoom... mooZ.....	8-18

Tape Motion Tricks	8-18
Stop On A Dime	8-18
Perfect Pitch	8-19
Faster Faster.....	8-19
Mixing Tricks	8-19
Read The Future.....	8-19
Do It Again — One.....	8-19
Do It Again — Two.....	8-19
Special Effects	8-20
Oops!	8-20
Easy Tens.....	8-20
Mix and Match.....	8-21
A Mono Bounce?.....	8-21
Memory Tricks	8-21
Forget It	8-21
Copy Cat.....	8-22
Give Yourself Cutting Room.....	8-22
Living in an Analog World.....	8-22
Get Looped	8-22
Double-Time	8-23
On The Shelf.....	8-23

Chapter 9

DAT Archive Option

Multi-Track DAT Backup.....	9-2
About The DAT Backup System.....	9-2
DAT System Versus Audio Backups	9-2
About The Tape.....	9-3
About the Hardware and Software.....	9-4
Using the DAT Backup System	9-4
Backup System Menus.....	9-5
Startup Sequence	9-6
Prepare DAT	9-6
DAT Backup	9-6
How Long Will A Backup Take?	9-7
Canceling A Backup In Progress.....	9-7
Erasing A Backup?	9-7
DAT Restore.....	9-8
How Long Does Restore Take?	9-8
Difference Between Production And Library Backups	9-9
DAT Usage.....	9-9
Ejecting A Data DAT Tape	9-9
Shutting Down	9-10
Don't Be Afraid To Ask For Help.....	9-10
Good DAT-Keeping	9-11
Tape Life	9-11
System Cleaning.....	9-12
DAT Drive Front Panel Lights	9-12
Sharing Productions With The DAT Backup System	9-14
Memory Limits.....	9-14
Using The Backup Hardware On Multiple Systems	9-15

Chapter 10

Jaz Drive Option

Jaz Drive Overview.....	10-2
Preparing Jaz Disks	10-2
Using the Jaz Drive	10-3
About Jaz Disks.....	10-3
Precautions	10-4
About Jaz Hardware and Software	10-4
Jaz Disk Usage	10-5
Ejecting A Jaz Disk.....	10-5
Transporting Audio Between Systems.....	10-6
Memory Limits.....	10-6
SCSI Precautions	10-7

Chapter 11

Digital I/O Module

Intelligent Digital Module	11-2
Input Selection.....	11-2
Selecting An Input.....	11-3
Input Status Displays	11-4
Setup.....	11-4
Audio Source	11-5
Sync Source.....	11-5
Sync Rate	11-6
Sample Rate	11-6
Format	11-7
Diagnostics	11-7
Preemphasis	11-7
Input Rate	11-7
SCMS Status	11-7
Tolerance.....	11-8
Input Format	11-8
Last Error	11-8
PLL Status And Sync Rate.....	11-9
IO Hardware.....	11-9
Defaults.....	11-9
Change Settings?	11-9
Starting and Restarting the I/O Module	11-10

Chapter 12

TimeCode Option

TimeCode Option Overview.....	12-3
Important Notes	12-4
About This Chapter	12-4
Basic TimeCode Operation	12-4
In A Nutshell.....	12-4
Starting A Timecode Production.....	12-5
Default Production Formats	12-5
Checking A Production's Frame Rate	12-6
Changing a Production's Frame Rate	12-6
VTR Remote Control	12-6
Basic Transport Commands.....	12-7
Advanced Remote Control.....	12-7
Jog	12-8
Chasing Timecode	12-8
Starting Chase	12-8
Recording With Timecode.....	12-9
Continuous Chase Versus Automatic Lock	12-10
Changing AutoLock Modes	12-10
Automatic Machine Control	12-11
Starting Automatic Machine Control.....	12-11
Working With Offsets.....	12-12
Changing Offset Dynamically	12-12
Capturing An Offset	12-13
Independent Offsets.....	12-13
Reading And Interpreting Offsets.....	12-13
Adjusting System Response.....	12-15
Chase Setup.....	12-16
Chase Input Settings.....	12-16
TimeCode Output Settings.....	12-17
SMPTE Status	12-17
Defaults?.....	12-18
Accept?.....	12-18

Machine Control Setup	12-18
VTR Control Settings	12-19
VTR Status Readout	12-20
Defaults?.....	12-21
Accept?.....	12-21
VTR Advanced Setup	12-22
Machine Control Settings	12-22
LTC Shuttle Compensate	12-23
Diagnostics	12-24
Offset Display.....	12-25
Defaults.....	12-26
Accept?.....	12-26
Working With Timecode and RS-422	12-26
By The Numbers	12-26
LTC: Longitudinal Timecode	12-27
VITC: Vertical Interval Timecode.....	12-27
Best of Both Worlds	12-28
9-Pin or RS-422 Code.....	12-28
BITC: Burn-In Timecode	12-29
Bi-phase Code	12-30
Timecode Formats	12-30
24 fps	12-30
25 fps	12-30
30 fps	12-31
29.97 fps	12-31
Non-Dropframe	12-32
Dropframe.....	12-32
Choosing Dropframe Or Non-drop	12-32
Sync Methods.....	12-33
Audicy Chase Modes	12-33
About House Sync	12-33
AutoLock Modes	12-34
Working Without House Sync	12-34
Connecting Audicy to a Video System.....	12-35
LTC Timecode Input	12-35
LTC Timecode Output.....	12-35
RS-422.....	12-36
Changes at the VTR	12-36
House Sync.....	12-36
Reading VITC	12-38

Chapter 13

Cart Options

“Cart Replacement” Systems.....	13-2
Fast MPEG Compression.....	13-2
How It Works	13-2
About This Chapter	13-3
Making Carts	13-3
Making A BE AudicVault “Cart”	13-3
Making An Enco DAD “Cart”	13-7
System Errors.....	13-11
Error With Cuts Database	13-12
Database Collision	13-12
Installation and Configuration	13-12
Audicy System Requirements.....	13-12
BE AudioVault Link System.....	13-12
Enco DAD Link System.....	13-13
Hardware Installation.....	13-13
Factory Installation Notes.....	13-13
Audicy Installation Instructions	13-14
Installing the Boards.....	13-14
Install Network Adapter Board.....	13-14
Install MPEG Compression Board.....	13-14
Finishing The Hardware Installation.....	13-15
Software Installation	13-15
First, Check Your Hardware.....	13-15
Install The Software	13-15
Checking The Installation.....	13-16
Network Connections	13-17
Configuration Changes For Coax/Twisted Pair	13-17
Configuration	13-18
Configuring BE AudioVault Defaults On Your Audicy	13-18
Configuring The ENCO DAD On The Server And Audicy.....	13-20

Chapter 14

Installation

Introduction	14-2
System Components	14-2
Location.....	14-3
Heat	14-3
Dust	14-3
R. F. I.	14-3
Vibration.....	14-3
Access	14-4
Stereo Imaging	14-4
Installation	14-5
Workstand	14-5
Conventional Installation	14-5
System Connections.....	14-6
SCSI Connections	14-7
Extending Cables.....	14-9
Power Requirements.....	14-9
U.P.S.	14-10
Signal Routing	14-11
Patchbay-Based Installations	14-11
Console-Based Installations.....	14-11
Switcher-Based Installations	14-13
Digital Inputs And Outputs	14-14
Analog Wiring	14-15
Inputs	14-15
Outputs	14-16
Input Sensitivity	14-17
Analog Calibration	14-19

Chapter 15

Troubleshooting Guide

Troubleshooting.....	15-2
Quick Troubleshooting Chart.....	15-3
Error Messages	15-6
Error Message 2003 (or 2004, or 2005)	15-7
Controller Failure Detected (Error 2016)	15-7
DAT Tape Unrepairable	15-8
Drive Not Ready — Insert Boot Disk In Drive A.....	15-8
Effects Processor Not Available	15-9
Reverb Processor Not Available.....	15-9
Patch Effects System Has Lost Audio.....	15-9
FX Engine Dead.....	15-10
Hardware Disk Error.....	15-10
Prep DAT Error Message	15-10
Tape Is Not A DATA-DAT Tape, or Tape Corrupted and Unreadable	15-11
Warning: AIOM System (Transrport) Failure	15-11
Warning: Edit Reload Error	15-11
Warning: Internal Editing Failure.....	15-11
Warning: General Initialization Failure.....	15-11
Warning: Insufficient Audio Memory.....	15-12
Warning: ISR/DSP Hardware Failure	15-12
Warning: System/DSP (Transport) Failure	15-12
Warning: Total Reload Failure	15-12
Audio Problems	15-13
Static and/or Distortion During Playback.....	15-13
Mechanical Problems	15-14
DAT Tape Won't Load/DAT Tape Is Immediately Ejected.....	15-14
Replacing Parts	15-14
Fuses	15-14
Lamps	15-15
Monitor.....	15-15
Buttons.....	15-15
Button Caps	15-16
Where To Go For Service.....	15-16

Specifications

Audicy Technical Speicificaitons.....	S-2
Signal Flow Diagram	S-4