

RELEASE NOTES

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NOTE THE RADAR 24 PROCESSOR UPGRADE ALERT IN THE HARDWARE REQUIREMENTS SECTION

(ON RADAR USE THE  KEY TO SCROLL DOWN)

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RADAR VERSION 3.56

Welcome to RADAR Version 3.56! Please take a few moments to review the Release Notes to view what's new in Version 3.56.

RADAR PDF VIEWER NAVIGATION KEYSTROKES

Use the  and  arrows on your keyboard to scroll through; use the  key to go to **RADARView**.

ACTION	KC24	SESSION CONTROLLER
Start Viewer		 or 
Start Viewer with focus on find Control (for searching)	None	 + 
Return to RADARView™	 (to highlight iZ logo), then press  (Play) or mouse click iZ logo	 or Track Arm 
Change Focus (Bookmarks -> Text -> Bookmarks)	 or  + 	
Change items in Bookmarks	 or 	 or 
Change Views (Bookmarks ->Page Num -> None)	 +  ,  +  ,  + 	Track Arm  ,  , and 
Expand Bookmark	 + 	
Collapse Bookmark	 + 	
Zoom in viewer	 + 	 or  or Track Arm 
Zoom out viewer	 + 	 or  or Track Arm 
Forward 10 pages	None	 (Fast Forward) or Track Arm 
Back 10 pages	None	 (Rewind) or Track Arm 

ACTION	KC24	SESSION CONTROLLER
Scroll page forward	↓	↓
Scroll page backward	↑	↑
Next Page	MARK OUT	▶ (Play) or Track Arm 10
Previous Page	MARK IN	■ (Stop) or Track Arm 11
Last Page	None	SHIFT + ▶▶ (Fast Forward) or Track Arm 9
First Page	None	SHIFT + ◀◀ (Rewind) or Track Arm 6
Back in page History	ALT + ◀	Track Arm 12
Forward in Page History	ALT + ▶	Track Arm 13
Fit to page width	ALT + SHUTTLE	Track Arm 14
Fit to page	ALT + ENTER TIME	Track Arm 15
Rotate document clockwise	None	Track Arm 16
Rotate document counter clockwise	None	Track Arm 17
Focus on Find Control	REDO	Qwerty Keys or Track Arm 20
Focus on Goto Page Control	REDO	Numeric Keys or Track Arm 22
Find – Search	ENTER	ENTER or Track Arm 21
Find – Search Again	ALT + F	ENTER or Track Arm 21
About Dialog	None	Track Arm 23
Goto Page	ALT + G	ENTER
Dismiss dialogs or popup messages	▶ (Play) (with focus)	CANCEL

IMPORTANT NOTICES

DON'T USE RADAR BWAV DRIVES WITH OLD RADAR SOFTWARE

Audio drives formatted as **RADAR BWAV** are not compatible with RADAR I, RADAR II, or RADAR 24 units running software versions below 3.35.



You will lose audio if you mount a RADAR BWAV drive using an earlier version of RADAR software.

DON'T WRITE TO RADAR BWAV DRIVES USING NON-RADAR SOFTWARE

You **may** mount/unmount RADAR BWAV audio drives in systems running MacOS, Unix, Windows, Linux, etc, to browse directories and copy files or folders **from** the RADAR BWAV drive **to** the other system and then subsequently use the RADAR BWAV drive in RADAR without risk of RADAR recorded data loss or corruption. However, to avoid **loss or corruption of RADAR recorded data**, note the following:



- Do not Mount/Unmount RADAR BWAV disks that had been clones in a RADAR recorded dual disk session and subsequently attempt to mount them as a cloned pair in RADAR. These disks, having been mounted in another system, are no longer clones. Attempted subsequent Dual Disk use in RADAR of such disks may cause data loss or corruption.
- Do not write files into any directory on a RADAR BWAV drive while mounted on another system.
- Do not delete, rename, or modify any existing files or folders on a RADAR BWAV disk or modify the disk in any way using another system. These operations may only be done in RADAR.

SOME BACKUPS CANNOT BE RESTORED WITH OLD RADAR SOFTWARE

Backups of audio drives formatted as RADAR BWAV can only be *restored* on pre-3.40 software if you do a **DSET(LEGACY)** type of backup (although the audio files from BWAV backups can be *imported* using version 3.30 or later). Backups of audio drives formatted as **!RADAR!** (32, 64 or 128K clusters) always use the legacy format and can be restored using any version of RADAR software.

CANNOT RADARLINK TO UNITS RUNNING OLD RADAR SOFTWARE

RADAR units running version 3.56 software can only be RADARLinked with RADAR units running software version 3.40 or later. In addition, RADAR units equipped with an Adrenaline Plus card (e.g. RADAR V) can only be RADARLinked with other units that have an Adrenaline Plus card installed.

HARDWARE REQUIREMENTS FOR VERSION 3.56

Before you can upgrade to version 3.56, your RADAR unit must have up-to-date hardware as outlined below.

RADAR SYSTEM DRIVE



If you are updating from a version prior to 3.50, Version 3.56 will be supplied on a new iZOS drive which will replace your existing system drive. (Those upgrading from Version 3.50 or later will have had the new system drive installed during the upgrade to 3.50.) If you want to keep backups or other data from your old system drive, refer to the instructions under *INSTALLING VERSION 3.56 SOFTWARE ON YOUR RADAR*

RADAR PROCESSOR UPGRADE ALERT

iZ Technology has done a final lifetime purchase of **1 GHz Pentium III** processors for RADAR. A minimum 800 MHz processor is required for Version 3.30 software and up, but further upgrade to these Pentium III processors is highly recommended to ensure compatibility with future software releases.

Version 3.56 requires a **processor rated at a minimum of 800 MHz**. You can determine your RADAR's processor speed by watching closely as it boots up. When the Energy Star logo appears in the top right corner of the screen, look for a line that says something similar to:

INTEL® CELERON™ CPU at 667MHz

If the processor speed is below 800 MHz (as in the example above), you need to upgrade before installing the 3.56 software. If you see something similar to either:

INTEL® CELERON™ CPU at 800MHz or **PENTIUM III CPU at 800EB MHz**

you have an 800 MHz processor. While this is adequate for Version 3.56, we recommend upgrading to the 1 GHz (1000 MHz) Pentium III processor now, while it is still available.

If you see:

Main Processor: Intel Celeron™ 1 GHz (100x10.0)

you have a 1 GHz Celeron processor. Again, this is adequate for Version 3.56, but we recommend upgrading to the 1 GHz Pentium III processor as it out-performs the Celeron.

If you are currently running 3.38 or later software, you can also determine the processor speed by going to the **CPU SPEED** entry in the **SYSTEM INFO** menu. Note that the speed measured here may differ slightly from the rated speed.

MEMORY

Version 3.56 requires a **minimum of 1 GB of host memory** (RAM). The maximum amount of host memory that can be installed with Version 3.56 is 2 GB. The amount of memory is displayed during boot up in the same area as the processor information. If you see:

Memory Test: 1024 MB OK

you have the required 1 GB of memory. You can also determine your RADAR's memory by going to the **SYSTEM MENU**, selecting **SYSTEM INFO**, and then using the  key to scroll down to the **INSTALLED RAM** menu. If you see a value less than 1 GB (1024 MB), you need to add memory before installing the 3.56 software.

SYSTEM DRIVE RIBBON CABLE

If you will be burning CD-R or DVD-R disks using a multi drive, an 80-wire ribbon cable is required for both the IDE system drive and the DVD multi drive. If your RADAR was built prior to February 25, 2003, you may need to upgrade your cabling before burning disks.

GIGABIT ETHERNET CARD

If you will be connecting your RADAR unit to a network, you may need to upgrade your Ethernet card. You can determine your current Ethernet card type by going to the **SYSTEM MENU**, selecting **SYSTEM INFO**, and then using the  key to scroll down to the **ETHERNET TYPE** menu. If the type is not **GIGABIT**, then you need to upgrade your card.

REQUIREMENTS FOR THE ADRENALINE[®] PLUS CARD

MEMORY

The Adrenaline Plus card requires 1 GB of host memory (RAM).

AUDIO DRIVE

If you have an Adrenaline Plus card installed and plan to use the **24 TRACKS AT 192 KHZ** mode, you must use an iZ audio drive that is capable of handling the high throughput of audio data.

HIGH SAMPLE RATE PROJECTS

Audio recorded at sample rates above 48 kHz is handled differently by the Adrenaline Plus card. To convert existing high sample rate projects to this mode, export them (before installing the Adrenaline Plus card) to a temporary folder on the system drive (or to any drive of your choice). Then, after installing the card, import the projects to an iZ approved high performance audio drive.

INSTALLING VERSION 3.56 SOFTWARE ON YOUR RADAR



If you are upgrading from a version before 3.50, then Version 3.56 is supplied on a new iZOS drive which will replace your existing system drive. Once the new iZOS system drive is installed, if you want to keep backups or other data from your old system drive, install the old system drive in a USB external enclosure and connect it to one of RADAR's USB ports. Use RADAR's File Management Workspace to copy files from your old drive to your new drive's Archive partition.



Before you begin the upgrade, make sure you have a **backup of current sessions**. This is a standard precaution. If you are installing an Adrenaline Plus card with the software upgrade and you have projects at sample rates above 48 kHz, you will need to **export** these projects so that they can be converted to the Adrenaline Plus mode after installation. You may also need to upgrade your hardware (see above).

After upgrading your RADAR, you can mount audio drives from old versions of RADAR software, and they will automatically be upgraded to 3.56. This will work for any RADAR 24 or RADAR V audio drive, and also with audio drives from RADAR II Version 2.20 or later. If a drive is to be loaded from a RADAR II unit running older software you must first choose **UPGRADE SYSTEM** from the **SYSTEM MENU** on the RADAR II to prepare the drive.

If you decide to revert to an earlier version of **3.5x** software after installing version 3.56, you must select the **INSTALL PREV VER** option in the **DIAGNOSTICS MENU**. This will give you a list of all software versions that you have previously installed, or you can select **OTHER** to install from floppy, CD, etc. To revert to a **pre-3.50** version of software, you can either reinstall your old system drive or downgrade the new drive using the appropriate BeOS system recovery software CD. In the event that you need to reinstall iZOS, follow the instructions in the "iZOS" section below.



Audio drives formatted as **AUDIO:RADAR BWAV** are not compatible with RADAR units running software versions below 3.35. **You will lose audio** if you mount a RADAR BWAV drive in an earlier version of software. You can still initialize a drive as **AUDIO:!RADAR!** to record in the traditional RADAR format and **MAKE PORTABLE** when un-mounting it. Then it can be used in any software version.

UPGRADING FROM VERSION 3.50 OR LATER

Since version 3.56 is a free upgrade from version 3.50, you can download the zip file [RADAR_v3.56.0.zip](#) directly from the iZ web site. This zip file can be copied to any media (e.g. CD-R, DVD-R, D:Archive, USB drive or a network drive) and then installed as follows:

- 1** Select **UPDATE SOFTWARE** from the **SYSTEM MENU**, then select the location of the zip file:
 - N:** Network drive
 - E:** USB drive
 - D:** The D:Archive drive (if you transferred the file via FTP from a PC or Mac computer)
 - B:** A CD-R or DVD-R disk (or an iZ 3.56 software CD) inserted in the DVD multi-driveUse the **+**, **-**, **↑** and **↓** keys to locate the zip file [RADAR_v3.56.0.zip](#) on the media, then press **ENTER**.
WEB: Alternately, if your RADAR is connected to the internet, and you already have version 3.50 or later installed, you can download the 3.56 software directly from the iZ web site.
- 2** Answer **YES** to the **INSTALL VER 3.56** prompt. RADAR will automatically unmount your audio drive in preparation for the upgrade. If the drive was formatted as RADAR BWAV, the message: **DON'T USE A BWAV DISK PRE-3.35** will appear. This is not an error message; it is a warning not to take the audio drive and load it in a RADAR unit running a software version older than 3.35. If you load a BWAV disk in a RADAR unit running an earlier version of software, the disk can become corrupted.
- 3** Power off RADAR and reboot.
- 4** When RADAR has finished rebooting, the iZ logo will appear on the screen with a message below it. If the message says: **V3.56 REQUIRES HARDWARE UPDATES**, refer to the [HARDWARE REQUIREMENTS](#) section of these release notes. If your RADAR unit meets the requirements, the message will be: **INSTALL RADAR 24 V3.56? ENTR/CNCL**
If you do not want to proceed with the upgrade, press **CANCEL**. If you press **ENTER**, RADAR will begin installing the software, and the message will change to: **INSTALLING RADAR V3.56 DISK 1**
If you see the message **REMOVE CD/FLOPPY, ENTER TO REBOOT**, then press **ENTER**, and RADAR will automatically restart. When RADAR is finished rebooting, it will start up in the new version.
- 5** Check the date and time in the window near the top left corner of the **RADARView** screen. If they are incorrect, go to the **SET TIME & DATE** option in the **SYSTEM MENU** to update.

IZOS AND VERSION 3.56 SOFTWARE RECOVERY PROCEDURE



This procedure will erase all data on your system and Archive drive.

- 1 Change the CMOS settings on your RADAR unit so that the CD/DVD drive is first in the boot sequence.
- 2 Insert the **IZOS Software Recovery DVD** in the drive and reboot RADAR.
- 3 When the System Rescue CD screen appears, press **ENTER** at the **Enter to boot** prompt.
- 4 After the operating system software has loaded, follow the instruction to **Type 'yes' and press ENTER to proceed with system recovery**. If you press **ENTER** without typing **yes**, you will see the message **Reboot, and change the CMOS settings to the default boot order, remove the disk, and reboot. End of autorun scripts, press <Enter> to continue**. At this point, you can restart the recovery process by pressing **ENTER** and then typing **exit** at the **/root %** prompt. You can also cancel the recovery process by removing the recovery DVD, rebooting and changing the CMOS settings back to the original boot sequence.
- 5 **WARNING: All data on the System and Archive partition will be lost** appears as a final warning, with the instruction to **Type 'yes' and press ENTER to proceed**. If you press **ENTER** without typing **yes**, you will see the message **Reboot, and change the CMOS settings to the default boot order, remove the disk, and reboot. End of autorun scripts, press <Enter> to continue**. At this point, you can restart the recovery process by pressing **ENTER** and then typing **exit** at the **/root %** prompt, or you can cancel the recovery process by removing the recovery DVD, rebooting and changing the CMOS settings back to the original boot sequence.
- 6 If you answered **yes** to both of the prompts in the steps above, you will see the message **Please wait, the recovery process may take several minutes. Formatting part 1 of 2**. The software is loaded to RADAR's system drive in two phases. After each first phase, you will see some statistics similar to the following:

2127152+0 records in
2127152+0 records out
2178203648 Bytes (2.2 GB) copied, 439.218 s, 5.0 MB/s
- 7 When the **Recovery complete** message appears, follow the instruction to **Reboot, and change the CMOS settings to the default boot order, remove the disk, and reboot**. After this reboot, Version 3.56 of the RADAR software will start automatically.
- 8 When the **RADARView** screen appears, check the date and time in the window near the top left corner of the screen. If they are incorrect, go to the **SET TIME & DATE** option in the **SYSTEM MENU** to update.

BUGS FIXED IN VERSION 3.56

PROBLEM/BUG	COMMENTS
<p>Long scan times in file management dialogs (e.g. Browse, Backup); disc inserted in multi-drive never mounts</p>	<p>Occasionally RADAR would start up in a mode where communication with the DVD multi-drive was unreliable. Scans of the drives connected to the system would take up to a minute instead of the few seconds that is typical; furthermore, media in the drive would often not be read/written correctly. Also, when a disc was inserted into the drive, RADAR would sometimes try forever to mount the disc.</p>
<p>Crash on P3 motherboards when loading large projects</p>	<p>RADARs with older P3 motherboards which have been upgraded to 3.50 through 3.55 software would sometimes crash when loading projects, especially those with a large number of regions.</p>
<p>Errors when locating while using bars/beats display</p>	<p>When using Enter Time to locate the transport while in bars/beats display mode, RADAR would sometimes cue incorrectly and indicate Assert errors. This problem happened most often when the project start time was not zero.</p>
<p>Crash when Shift-& (Screen Capture) is pressed</p>	<p>The Shift-& (ampersand) key combination is used to save a RADARView screen shot. On some units, this function would cause RADAR to crash. Now there is a Diagnostics menu item called Screen Capture which must be enabled before the Shift-& key combo saves the screen.</p> <p>NOTE: The Shift-X key combination no longer saves the screen; use Shift-& instead.</p>
<p>Crash when looking for Software Update from Web</p>	<p>When attempting a Software Update from WEB, if no suitable upgrades were found, RADAR could crash.</p>
<p>Session controller lost communication on RADARs with no Sync Processor</p>	<p>On a RADAR with a P4 motherboard and no Sync Processor II card, the session controller would occasionally lose communication.</p>

NEW FEATURES IN VERSION 3.54

CHASE CUE TIME PREFERENCE

A new preference has been added in the timecode settings to adjust the **CHASE CUE TIME**. When chasing SMPTE timecode, one factor in the delay before RADAR begins chasing is the length of time spent waiting to guarantee that the disk has cued to any arbitrary point in the project. This time can now be adjusted; the default time is 1.6 s. If you are sure that the cue time will always be shorter (for example, if you are only playing back six tracks, or if you are playing back from a very fast hard disk), then you can reduce the time.



Be sure that the time is set long enough to allow the disk to cue to any point in the projects you are using. The cue time increases with number of tracks recorded and the amount of editing in a project.

BUGS FIXED IN VERSION 3.54

PROBLEM/BUG	COMMENTS
P4 motherboards would occasionally freeze while recording at high sample rates	When recording at high sample rates (192 kHz or 96 kHz), a RADAR with a P4 motherboard could occasionally freeze.
RADARLink problems with Sync Processor I card installed	When using 3.50/3.53 software with a Sync Processor I card installed, RADARLink was unreliable.
RADARLink slave out of sync with master when initial sample rate ranges differ	When entering RADARLink, if the initial sample rate ranges on the master and slave were different (e.g. 48 kHz vs. 96 kHz), the slave would sometimes be out of sync with the master immediately upon configuration.
1 GB RAM does not allow 24-hr waveforms at 192 kHz	If a RADAR contains at least 1 GB of RAM, it will now display 24 hours of waveforms at 192 kHz.

NEW FEATURES IN VERSION 3.53

TRACK ARM STATUS, ZOOM LEVEL REMEMBERED PER PROJECT

New preferences have been added for **TRACK ARM RECALL** and **ZOOMLEVEL RECALL**. When enabled, switching to a project will restore the arm-readied tracks and/or the vertical and horizontal zoom levels to the state they were when the project was last accessed.

SEPARATE PREFERENCES FOR MONO AND STEREO EXPORT FORMAT

Now, when you select **EXPORT FORMAT** in the **FILE PREFS** menu, you can set both a **MONO FORMAT** and a **STEREO FORMAT** preference. The options for the mono format are **WAV**, **BWAV**, and **ASK**. For stereo exports, there is an additional **CDA** option to create a 16 bit / 44.1 kHz track for burning to an audio CD.

ENHANCED FILL SILENCE OPTIONS FOR EXPORT AND BWAV BACKUP

A new **FRONT FILL ONLY** option has been added. This allows you to align all tracks to the same start time without having to fill gaps. There is also a **FRONT FILL+GAPS** option that does both.

IMPROVED SORT ORDER FOR USB DRIVES

When browsing USB drives, files now appear in a natural (alpha-numeric) sort order.

FORMAT USB DRIVES FOR FAT32

Now, when you select **INIT DISK** in the Disk menu, host-connected USB drives also appear in the list. USB drives will be formatted as FAT32.

To provide a consistent user interface, all disk diagnostic dialogs, including **INIT**, **CHECK**, and **VERIFY DISK**, now use the standard browser interface to select a disk.



After you have finished using a USB drive, make sure you unmount it before unplugging it from RADAR. You can access the **MOUNT/UNMOUNT** dialog via the **DISK MENU** or by pressing **SHIFT** + **UNMNT** on the Session Controller.

BUGS FIXED IN VERSION 3.53

PROBLEM/BUG	COMMENTS
Backup fails via FTP	Sometimes, at the end of a backup to an FTP server, RADAR would report "CAN'T BACKUP FILE: DSET.TXT" followed by "BACKUP FAILED".
"Salvage Partial Proj" prompt doesn't always appear when restoring damaged backups	If multiple projects being restored had errors that caused files to be skipped, only the last project was getting a "Salvage Partial Prog" prompt. Each project that has errors will now get that prompt, allowing it to be salvaged.
DVD stuck in +LOADING+ status	Attempting to browse a newly inserted CD or DVD before the drive had started loading it caused RADAR to get stuck in the +LOADING+ status.
FTP username limited to 16 characters	When logging in to an FTP server, RADAR now allows you to enter up to 40 characters for the USER NAME
Drive serial number limited to 16 characters	The SER# line in the SCAN SCSI BUS dialog will now show the full serial number of an audio drive (up to 40 characters). The full serial number will also be used when creating disk info files. Blanks at the beginning of the serial number will be stripped off.
"Disk Info File" folder renamed to "Disk Info Files"	The "System Files" folder on the Archive drive contains a "Disk Info File" folder. This folder has been renamed to "Disk Info Files".
Software downgrade causes problems with P4 motherboards	The P4 motherboards installed in newer RADAR units require software version 3.40 or later. Therefore, an attempt to downgrade one of these units to an earlier version of software will now be blocked with an error message: "NO P4 CPU SUPPORT PRE-3.40".
RADAR 24 equipped with regular Adrenaline card not mapping 96 kHz and 192 kHz inputs correctly	When using high sample rates on a RADAR unit not equipped with an Adrenaline Plus card, the inputs were not mapping to the correct tracks.
RADARLink track arming of tracks 49 and above doesn't work at 96 kHz/192 kHz with Adrenaline Plus	When using high sample rates on a RADAR unit equipped with an Adrenaline Plus card while in RADARLink, tracks 49 and above were not able to be armed from the Session Controller.

PROBLEM/BUG	COMMENTS
RADAR Network Control selects MADI in place of TDIF	When attempting to select TDIF as the digital input format via RADAR Network Control, the format was actually being set to MADI
Forced reboot if new Network Interface Card found	Now the message NEW NIC FOUND will be followed by an option to reboot RADAR to activate networking, or to continue working without networking.
Shutdown with no disks mounted prompts to “MAKE PORTABLE?”	When shutting down a RADAR unit with no disks mounted, the prompt to MAKE PORTABLE? will no longer appear.
UNMOUNT from Session Controller sometimes crashes	When using the UNMOUNT key on the Session Controller to unmount disks, RADAR would occasionally crash.
Imported Open TL files overwrite each other	When importing an Open TL project, the files were sometimes overwriting each other on the same track, instead of importing to separate tracks
Open TL import fails if track length greater than 4 hours	When importing an Open TL project, RADAR now reads the first 2 GB of audio on each track.
Some HFS+ drives for Open TL can't be read	When importing an Open TL project, some HFS+ drives were not being recognized by RADAR.

MENU STRUCTURE IN VERSION 3.56

Here is the RADAR menu structure for Version 3.56. Additions since version 3.50 are highlighted in **RED**. Items that have changed (e.g. renamed or moved to a new location) are highlighted in **BLUE**.

SYSTEM MENU

SYSTEM INFO

RADAR SOFTWARE VERSION
 SERIAL NUMBER
 RECORDING ENGINE
 SYNC ENGINE
 INSTALLED RAM
 CPU TYPE
 CPU SPEED
 IP ADDRESS
 MAC ADDRESS
 ETHERNET TYPE
 ANALOG I/O
 DIGITAL I/O 1
 DIGITAL I/O 2
 DIGITAL I/O 3
 DISK 0 - BUS 2
 DISK 1 - BUS 2
 SCSI ID 0

SET TIME & DATE

SET SERIAL NUM

UPDATE SOFTWARE

TOTRIS

(if "Shift-# GAMES")

PING

(if "Shift-# GAMES")

DISK MENU

MOUNT / UNMOUNT
 SHOW DISK SPACE
 RECLAIM SPACE
 MAKE PORTABLE
 ERASE ALL AUDIO
 INIT DISK
 DISK MODE
 24 TRKS AT 192K
 SEAMLESS 64K
 CLONE RADAR DISK
 DISK NOTES
 ENABLE DISK ID

(if Adrenaline Plus present)

SYNC MENU

TC SETTINGS

TC FORMAT
 TC RATE
 SMPTE LOCK SPEED
 FREEWHEEL TIME
 STATIC TC OUT
 CHASE MODE
 SHOW SYNC DRIFT
 SYNC THRESHOLD
 CHASE ON POWERUP
CHASE CUE TIME

SYNC MENU (cont'd)

SYNC REFERENCE
 RADARLINK
 ENABLE/DISABLE
 RADARLINK SOLO
 RADARLINK ID
 MACHINE CONTROL
 ENABLE/DISABLE
 SELECT TYPE
 9-PIN SETTINGS
 DEVICE ID
 9-PIN CHASE MODE
 TRACK ARM MODE
 VARISPEED MODE
 SHUTTLE-0 MODE
 TC OUT MODE-CUE
 TC OUT MODE-PLAY
 MMC SETTINGS
 DEVICE ID
 SYNC REF OUTPUT
 LOST SYNC IN REC

I/O MENU

I/O ROUTING
 INPUT ROUTING
 OUTPUT ROUTING
 RESET ROUTING
 DIG 2-CH ROUTING
 DIGITAL INPUTS
 8-BUS MODE
 ANALOGUE LEVELS
 DIG IN FORMAT
 DIG I/O SDQ
 DIG 2 CH OUTPUT
 AES SETTINGS (if AES card present)
 SAMPLE RATE IN
 EMPHASIS IN
 EMPHASIS OUT
 MULTI-CHNL TYPE
 ADAT SETTINGS (if ADAT card present)
 ADAT IN CLOCK
 ADAT IN WIDTH
 ADAT IN SMPL PT
 ADAT OUT WIDTH
 ADAT OUT USERBIT
 FACTORY DEFAULTS
 TDIF SETTINGS (if TDIF card present)
 IN SAMPLE POINT
 SAMPLE RATE IN
 EMPHASIS IN
 EMPHASIS OUT
 CARD TYPE
 MADI SETTINGS (if MADI card present)
 SAMPLE RATE IN
 EMPHASIS IN
 EMPHASIS OUT
 LEGACY MODE
 INTERLACE (48CH)
 COAX/OPTICAL IN
 INSTALL FIRMWARE

FILE MENU

- BACKUP
- RESTORE
- EXPORT
- IMPORT
- FLATTEN PROJECTS
- FILE MANAGEMENT
- MAKE DVDCD IMAGE
- BURN DATA CD/DVD
- BURN AUDIO CD
- FINALIZE CD
- DEL IMG FILE
- MACROS
- MIX AUTOMATION
- FILE PREFS
 - SHOW SIZE
 - IMPRT PROJ START
 - EXPORT FORMAT
 - MONO FORMAT**
 - STEREO FORMAT**
 - FILL SILENCE
 - REFORMAT QUALITY
 - WRITE VERIFY
 - FILE NAME FORMAT
 - PRESET
 - TRK-NAME-STAMP
 - TRK-PROJ-STAMP
 - TRK-REGION-NAME
 - TRK-REGION-PROJ
 - PROJ-TRK-REGION
 - TRK-REGION (DOS)
 - CUSTOM
 - SELECT TEMPLATE
 - MAKE TEMPLATE
 - IMPORT TEMPLATE
 - EXPORT TEMPLATE
 - EDIT TEMPLATE
 - DELETE TEMPLATE
 - DVD BURN MODE
 - DVD BURN SPEED

PROJECT MENU

- GOTO PROJECT
- NEW PROJECT
- COPY PROJECT
- DELETE PROJECT
- NAME PROJECT
- RENUMBER PROJECT
- SAMPLE RATE
- BIT RESOLUTION
- TC FORMAT
- TC RATE
- START TIME
- SYNC OFFSET
- DISPLAY MODE
- MIDI TEMPO MAP
- VARISPEED
- UNDO LEVEL
- STOP AT LOCATE

PROJECT MENU (cont'd)

WAVE NOISE FLOOR
 NAME TRACK
 RENUMBER LOCATES
 REBUILD WAVES

I/O ROUTING

INPUT ROUTING
 OUTPUT ROUTING
 RESET ROUTING
 DIG 2-CH ROUTING
 DIGITAL INPUTS
 8-BUS MODE

PROJECT NOTES
 PROJECT PREFS

NEW PROJ SETTNCS
 NEW PROJ NUMBER
 DEF SAMPLE RATE
 DEF BIT RES
 DEF TC FORMAT
 DEF TC RATE
 DEF START TIME
 DEF UNDO LEVEL
 DEF WAVE NS FLR

TEMPLATE MENU

MAKE TEMPLATE
 IMPORT TEMPLATE
 EXPORT TEMPLATE
 DELETE TEMPLATE

EDIT MENU

UNDO EDIT
 REDO EDIT
 MODIFY EDIT
 CUT
 COPY
 PASTE
 MOVE
 ERASE
 LOOP
 SLIDE
 INSERT SILENCE
 REVERSE
 GAIN/FADE
 LISTEN
 EDIT XFADE TIME
 REC XFADE TIME
 CROSSFADE TYPE
 MUTE TRACKS
 RECORD SAFE

PREFERENCES MENU

DEF SMPTE FIELD
 SHOW SUBFRAMES
 SCROLL PROJ LED
 TRACK SOLO MODE
 ZOOM SOLO AUDIO
 SLIDE TIME UNITS
 FFWD & REW RATE
 MAX JOG RATE

(if Adrenaline Plus present)

PREFERENCES MENU (cont'd)

PEAK HOLD TIME
 CLIP HOLD TIME
 SYNC MRK TRIGGER (if "Shift-# CLAP") (for Soundmaster)
 SAVE STATE DELAY
 SCRN-SAVER MENU
 SAVER DELAY
 IMAGE EFFECTS
 AUTO RECLAIM
 TRK ARM GROUPING
 IGNORE AES FLAGS
 UNMOUNT PORTABLE
 RADARVIEW RES
 CLOCK MODE
 MUTE I/O ON STOP
 ARROW KEY GOTO
TRACK ARM RECALL
ZOOMLEVEL RECALL
 ASSIGN FT-SWITCH
 ASSIGN MMC LOC

 RECORD PREFS
 1-BUTTON RECORD
 TRACK ARM ACTION
 RECORD MK IN/OUT
 LOW DISK WARNING
 RECORD VERIFY
 RECORD ON CHASE
 PROJECT PER TAKE
 RECORD RECOVERY

 FILE PREFS
 SHOW SIZE
 IMPRT PROJ START
 EXPORT FORMAT
 MONO FORMAT
 STEREO FORMAT
 FILL SILENCE
 REFORMAT QUALITY
 WRITE VERIFY
 FILE NAME FORMAT
 PRESET
 TRK-NAME-STAMP
 TRK-PROJ-STAMP
 TRK-REGION-NAME
 TRK-REGION-PROJ
 PROJ-TRK-REGION
 TRK-REGION (DOS)
 CUSTOM
 SELECT TEMPLATE
 MAKE TEMPLATE
 IMPORT TEMPLATE
 EXPORT TEMPLATE
 EDIT TEMPLATE
 DELETE TEMPLATE
 DVD BURN MODE
 DVD BURN SPEED

 PROJECT PREFS
 NEW PROJ SETTNGS
 NEW PROJ NUMBER
 DEF SAMPLE RATE

PREFERENCES MENU (cont'd)

DEF BIT RES
 DEF TC FORMAT
 DEF TC RATE
 DEF START TIME
 DEF UNDO LEVEL
 DEF WAVE NS FLR

NETWORK PREFS

INTERFACE PREFS

HOST NAME
 DHCP SERVER
 LOCAL IP ADDRESS (if DHCP disabled)
 SUBNET MASK (if DHCP disabled)
 GATEWAY (if DHCP disabled)
 PRIMARY DNS (if DHCP disabled)
 SECONDARY DNS (if DHCP disabled)
 SMTP HOST
 FTP SERVER
 FTP LOGIN NAME (if FTP enabled)
 FTP PASSWORD (if FTP enabled)

SERVER PREFS

NETWORK PROTOCOL
 SERVER IP ADDR
 SERVER NAME
 SERVER SHARE (if Network Protocol is "CIFS")
 CLIENT WORKGROUP (if Network Protocol is "CIFS")

EMAIL PREFS

COMPANY NAME
 LOCATION
 REPLY EMAIL

NETWORK CONTROL

REMOTE PREFS

REMOTE PORT

DIAGNOSTICS MENU

SCAN SCSI BUS
 INIT DISK
 CHECK DISK
 REPAIR DISK
 CHECK PROJECT
 SET STARTUP PROJ
 REALTIME ERRORS
 VERIFY DISKS
 SHOW AUDIO LEVEL
 PING IP ADDRESS
 CONFIGURE DEBUG
 SAVE DEBUG
 EMAIL DEBUG
SCREEN CAPTURE
 RESTART DESKTOP
 FACTORY SETTINGS
 INSTALL PREV VER

HELP MENU

RELEASE NOTES
 MANUAL

SHUTDOWN RADAR