

## RELEASE NOTES

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(ON RADAR USE THE  KEY TO SCROLL DOWN)

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## RADAR VERSION 3.44

Welcome to RADAR Version 3.44! Please take a few moments to review the Release Notes to view what's new in Version 3.44.

### 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  ( <b>Play</b> ) 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	 ( <b>Fast Forward</b> ) or Track Arm 
Back 10 pages	None	 ( <b>Rewind</b> ) or Track Arm 

ACTION	KC24	SESSION CONTROLLER
Scroll page forward		
Scroll page backward		
Next Page		 <b>(Play)</b> or Track Arm 
Previous Page		 <b>(Stop)</b> or Track Arm 
Last Page	None	 <b>(Fast Forward)</b> or Track Arm 
First Page	None	 <b>(Rewind)</b> or Track Arm 
Back in page History		Track Arm 
Forward in Page History		Track Arm 
Fit to page width		Track Arm 
Fit to page		Track Arm 
Rotate document clockwise	None	Track Arm 
Rotate document counter clockwise	None	Track Arm 
Focus on Find Control		Qwerty Keys or Track Arm 
Focus on Goto Page Control		Numeric Keys or Track Arm 
Find – Search		 or Track Arm 
Find – Search Again		 or Track Arm 
About Dialog	None	Track Arm 
Goto Page		
Dismiss dialogs or popup messages	 <b>(Play)</b> (with focus)	

## IMPORTANT NOTICES

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### 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 3.44 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 3.44

Before you can upgrade to version 3.40 or later, your RADAR unit must have up-to-date hardware as outlined below. If you attempt to do the upgrade without sufficient hardware, you will receive the message:

### V3.40 REQUIRES HARDWARE UPDATES

When you press **ENTER** you will receive messages indicating what hardware is required, and a warning that the 3.44 software was not installed. For example:

**MIN CPU: 800 MHZ**  
**MIN RAM: 384 MB**  
**MIN ARCHIVE:70GB**  
**SW NOT INSTALLED**

If you receive any of these messages during the upgrade, press **ENTER**, and RADAR will start up using your existing version of software.

### RADAR 24 PROCESSOR UPGRADE ALERT

iZ Technology has done a final lifetime purchase of **1 GHz Pentium III** processors for RADAR 24. A minimum 800 MHz processor is required for Version 3.30 software and up, but further upgrades to these Pentium III processors is highly recommended to ensure compatibility with future software releases.

Version 3.44 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 3.44 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 3.44, 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 3.44, 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.

## RADAR 24 SYSTEM DRIVE UPGRADE ALERT



To run version 3.40 or later, your RADAR unit must have a system drive with a minimum 70 GB Archive partition.

If your RADAR was built prior to March 21, 2002, you may need to upgrade your system drive before installing version 3.44. To check your Archive partition size, go to the **SYSTEM INFO** menu, and press the  until you see **IDE 0, MASTER: ARCHIVE XXGB**, or go to the browser (**FILE MANAGEMENT** dialog or **SHIFT + B**) and look for the **D:ARCHIVE** drive.

## MEMORY

Version 3.44 requires a **minimum of 384 MB of host memory** (RAM). The amount of memory is displayed during boot up in the same area as the processor information. If you see:

**Memory Test: 393216 K OK**

you have the required 384 MB 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 393216 Kbytes, you need to add memory before installing the 3.44 software.



Note that the maximum amount of memory that may be installed in RADAR is 768 MB.

## 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.

## REQUIREMENTS FOR THE ADRENALINE<sup>®</sup> PLUS CARD

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### MEMORY

The Adrenaline Plus card requires 768 MB of host memory (RAM). Note that 768 MB is the maximum amount of memory that may be installed in RADAR.

### 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 3.44 SOFTWARE ON YOUR RADAR

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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 memory, audio drive, and/or system drive (see above).

After upgrading your RADAR, you can mount audio drives from old versions of RADAR software, and they will automatically be upgraded to 3.44. This will work for any RADAR 24 or RADAR V drive, and also with 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 software after installing version 3.44, 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.



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 3.40 OR LATER

Since version 3.44 is a free upgrade from version 3.40, you can download the zip file **RADAR\_v3.44.0.zip** directly from the iZ web site. This zip file can be copied to any media (e.g. CD-R, DVD-R, D:Archive or a network drive) and then installed as follows:

- 1** Select **UPDATE SOFTWARE** from the **SYSTEM MENU**, then choose from the following options:
  - WEB:** If your RADAR is connected to the internet, and you already have version 3.40 or later installed, you can download the 3.44 software directly from the iZ web site.
  - N:** If you are installing the 3.44 software upgrade from a network drive, use the **+**, **-**, **↑** and **↓** keys to locate the zip file **RADAR\_v3.44.0.zip**. Then press **ENTER**.
  - D:** If you transferred the 3.44 software upgrade via FTP from a PC or Mac computer to RADAR's D:Archive drive, use the **+**, **-**, **↑** and **↓** keys to locate the zip file **RADAR\_v3.44.0.zip**. Then press **ENTER**.
  - B:** If you have an iZ 3.44 software CD, or you burned the zip file **RADAR\_v3.44.0.zip** to a CD-R or DVD-R and your RADAR unit is equipped with a DVD multi-drive, insert the disk in the drive and press **ENTER**.
- 2** Answer **YES** to the **INSTALL VER 3.44** 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: **V3.40 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 V3.44? 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 V3.44 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.

## UPGRADING FROM VERSION 3.38 OR 3.39

- 1** Select **UPDATE SOFTWARE** from the **SYSTEM MENU**, then choose from the following options:

  - B:** If you have a 3.44 software CD, and your RADAR unit is equipped with a DVD multi-drive, insert the CD in the drive and press **ENTER**.
  - FTP:** If you are transferring the 3.44 software upgrade from your PC or Mac computer, transfer the zip file **RADAR24\_v3.44.0\_net.zip** via FTP to the **/boot/Install** directory on RADAR. Press **ENTER** when the transfer is complete.



You may see **INSTALLCURRENT** and **INSTALLPREVIOUS** directories under the boot directory but you must transfer the software into the **INSTALL** folder.

- 2** Answer **YES** to the **INSTALL VER 3.44** 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-335** will appear. This does not mean that anything is wrong; it is a warning not to take this disk 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: **V3.40 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 V3.44? 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 V3.44 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.

## UPGRADING FROM VERSION 3.37 OR EARLIER

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RADAR install software can be transferred via CD, FTP over a network, or FTP from a PC or Mac computer using an Ethernet cross-over cable. Check the requirements below to see which method is best for you.

### INSTALL FROM CD

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You must have ALL the following requirements in place in order for this type of install to be successful:

#### CD INSTALL REQUIREMENTS

- **R24CDNET** software loader upgrade (if you have not installed it yet). See the install procedure below for details.
- CD or DVD multi-drive installed in your RADAR.
- RADAR Software Install CD. If you obtained the actual CD from iZ Technology or your local dealer, proceed to the CD Install Procedure. If you downloaded the CD image from [www.izcorp.com](http://www.izcorp.com) see below for how to make the CD using your PC or Mac computer:

## CD INSTALL PROCEDURE

- 1 If you have previously installed the R24CDNET software loader upgrade, insert the **Software Install CD** in the drive, reboot RADAR, and proceed to step 2.
  - To activate the CD install for the first time, insert the **R24CDNET floppy** and reboot RADAR. You only need to do this once (unless you later downgrade to version 3.26 or below). For future releases, you will not need to use the floppy drive at all.
  - When RADAR has finished loading the **R24CDNET** image, you will be prompted to remove the floppy disk, insert the Software Install CD and then press **ENTER**. The message: **REBOOTING RADAR – PLEASE WAIT** will be displayed briefly and then RADAR will automatically reboot.
- 2 When RADAR has finished rebooting, the iZ logo will appear on the screen with a message below it. If the message says: **V3.40 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 V3.44? 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 V3.44 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 and all projects will automatically be upgraded to the version 3.44 format, if necessary. This operation may take a few seconds per project.
- 3 If the message **NEW NIC FOUND** appears, this indicates that a new Network Interface Card was detected (or the card was not previously configured correctly). In any case, power off RADAR and reboot to complete the setup of new drivers.
- 4 After rebooting, you will be prompted to enter the serial number if it has not been set yet. Type the number found on RADAR's back panel. If it is a RADAR 24, it will be a 14-digit number starting with **iZR024**. If it is a RADAR V, it will be a 12-digit number starting with **iZRV**.
- 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.

## INSTALL FROM PC, MAC OR NETWORK VIA FTP

You must have ALL the following requirements in place for this type of install to be successful.

### FTP INSTALL REQUIREMENTS

- **R24CDNET** software loader upgrade (if you have not installed it yet). See the install procedure below for details.
- FTP program running on your PC or Mac computer.
- Proper FTP-enabled network setup/configuration between your computer and RADAR. Refer to the RADAR manual for specific network setup instructions if necessary.
- RADAR Net Install software zip file **RADAR24\_v3.44.0\_net.zip** (obtained from a RADAR software shipping CD or via the download section of our website [www.izcorp.com](http://www.izcorp.com))

### FTP INSTALL PROCEDURE

- 1 If you have previously installed the R24CDNET software loader upgrade, just power up RADAR and proceed to step 2.
  - To activate the FTP install for the first time, insert the **R24CDNET floppy** and reboot RADAR. You only need to do this once (unless you later downgrade to version 3.26 or below). For future releases, you will not need to use the floppy drive at all.
  - When RADAR has finished loading the **R24CDNET image**, the message **REMOVE FLOPPY, INSERT CD, ENTER** will appear on the screen below the iZ logo:  
  
Since you are not installing from a CD, you need only remove the floppy. Do not press **ENTER**. Leave RADAR in this state while you proceed to step 2.
- 2 From your PC or Mac computer, transfer the Net Install software zip file **RADAR24\_v3.44.0\_net.zip** via FTP to the **/boot/Install** directory on RADAR.



You may see **INSTALLCURRENT** and **INSTALLPREVIOUS** directories under the boot directory but you must transfer the software into the **INSTALL** folder.

- 3 Once the transfer is complete, you need to restart RADAR to install the software.
  - If you installed the R24CDNET floppy in step 1, and the RADAR screen still shows **REMOVE FLOPPY, INSERT CD, ENTER**, then press **ENTER**, and RADAR will automatically restart and begin to install the software.
  - If you just powered up RADAR in step 1, ensure that you **SHUTDOWN RADAR** (the last item in the main menu) and then reboot.

- 4** When RADAR has finished rebooting, the iZ logo will appear on the screen with a message below it. If the message says: **V3.40 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 V3.44? 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 V3.44 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 and all projects will automatically be upgraded to the version 3.44 format, if necessary. This operation may take a few seconds per project.
- 5** If the message **NEW NIC FOUND** appears, this indicates that a new Network Interface Card was detected (or the card was not previously configured correctly). In any case, power off RADAR and reboot to complete the setup of new drivers.
- 6** After rebooting, you will be prompted to enter the serial number if it has not been set yet. Type the number found on RADAR's back panel. If it is a RADAR 24, it will be a 14-digit number starting with **IZR024**. If it is a RADAR V, it will be a 12-digit number starting with **IZRV**.
- 7** 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.

## NEW FEATURES IN VERSION 3.44

### 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 3.44

PROBLEM/BUG	COMMENTS
<b>P4 motherboards would occasionally freeze while recording at high sample rates</b>	When recording at high sample rates (192 kHz or 96 kHz), a RADAR with a P4 motherboard could occasionally freeze.
<b>RADARLink slave out of sync with master when initial sample rate ranges differ</b>	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.

## NEW FEATURES IN VERSION 3.43

### 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.

## BUGS FIXED IN VERSION 3.43

PROBLEM/BUG	COMMENTS
<b>Backup fails via FTP</b>	Sometimes, at the end of a backup to an FTP server, RADAR would report "CAN'T BACKUP FILE: DSET.TXT" followed by "BACKUP FAILED".
<b>"Salvage Partial Proj" prompt doesn't always appear when restoring damaged backups</b>	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.
<b>DVD stuck in +LOADING+ status</b>	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.
<b>FTP username limited to 16 characters</b>	When logging in to an FTP server, RADAR now allows you to enter up to 40 characters for the <b>USER NAME</b>

PROBLEM/BUG	COMMENTS
<b>Drive serial number limited to 16 characters</b>	The <b>SER#</b> line in the <b>SCAN SCSI BUS</b> 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.
<b>“Disk Info File” folder renamed to “Disk Info Files”</b>	The “System Files” folder on the Archive drive contains a “Disk Info File” folder. This folder has been renamed to “Disk Info Files”.
<b>Software downgrade causes problems with P4 motherboards</b>	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”.
<b>RADAR 24 equipped with regular Adrenaline card not mapping 96 kHz and 192 kHz inputs correctly</b>	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.
<b>RADARLink track arming of tracks 49 and above doesn’t work at 96 kHz/192 kHz with Adrenaline Plus</b>	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.
<b>RADAR Network Control selects MADI in place of TDIF</b>	When attempting to select TDIF as the digital input format via RADAR Network Control, the format was actually being set to MADI
<b>Forced reboot if new Network Interface Card found</b>	Now the message <b>NEW NIC FOUND</b> will be followed by an option to reboot RADAR to activate networking, or to continue working without networking.
<b>Shutdown with no disks mounted prompts to “MAKE PORTABLE?”</b>	When shutting down a RADAR unit with no disks mounted, the prompt to <b>MAKE PORTABLE?</b> will no longer appear.
<b>Imported Open TL files overwrite each other</b>	When importing an Open TL project, the files were sometimes overwriting each other on the same track, instead of importing to separate tracks
<b>Open TL import fails if track length greater than 4 hours</b>	When importing an Open TL project, RADAR now reads the first 2 GB of audio on each track.
<b>Some HFS+ drives for Open TL can’t be read</b>	When importing an Open TL project, some HFS+ drives were not being recognized by RADAR.

## NEW FEATURES IN VERSION 3.42

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### IMPORT OPEN TL PROJECTS

If you have Open TL projects on an HFS+ audio drive, you can now import them to a RADAR BWAV audio drive.

### SET PROJECT START TIME WHEN IMPORTING

When importing files to a new project, the project start time will be based on the **IMPRT PROJ START** setting in the **FILE PREFS** menu. If this preference is set to **AUDIO**, then the project start time will be set to the time stamp of the earliest audio imported to the project. If the preference is **DEFAULT**, then the project start time will be set to the **DEF START TIME** defined in the **PROJECT PREFS** menu.

### STOP AT LOCATE FUNCTION IS NOW PROJECT-SPECIFIC

The **STOP AT LOCATE** option has been moved from the **PREFERENCES MENU** to the **PROJECT MENU** so you can enable this feature on a per project basis.

### SET SMTP HOST IN NETWORK PREFS

The **INTERFACE PREFS** section of the **NETWORK PREFS** menu now contains an **SMTP HOST** setting. In some situations, this is required to allow email of debug logs via a specific Internet Service Provider.

### SET STARTUP PROJ

The **DIAGNOSTICS MENU** now contains a **SET STARTUP PROJ** setting that allows you to specify the project that will be loaded the next time RADAR starts up.

### ENHANCED FILL SILENCE OPTIONS FOR EXPORT AND BWAV BACKUP

New **FRONT FILL+GAPS** and **GAPS+BACK FILL** options have been added. This allows you to decide if you want to align all tracks to the same start or end time. There is also a **FRONT+GAPS+BACK** option that does both. If you set the **FILL SILENCE** preference set to **ASK**, you will be prompted to select the option whenever you do an export or BWAV backup.



If you had the **FILL SILENCE** preference in the **FILE PREFS** menu set to **ALL** in a previous version of software, it will be converted to **FRONT+GAPS+BACK** when you install version 3.42. This is the setting to use if you want to import back into RADAR and paste to **ORIG TIME** because it guarantees that all exported tracks will be aligned.

## ENTER TIME FUNCTION REMEMBERS LAST ENTRY

Now, when you press the **ENTER TIME** key, it will display the previously-entered time. This allows you to return to the same time location by simply pressing **ENTER**.

## MADI FIRMWARE UPDATES

A new **INSTALL FIRMWARE** feature has been added to the **MADI SETTINGS** list in the **I/O MENU**. This allows you to upgrade the firmware on your Multi-channel Audio Digital Interface card.

## SCREEN SHOT IMAGE SAVED ON THE ARCHIVE DRIVE

When you press **SHIFT+X**, a screen shot will be saved to a file named **SCREENSHOT.BMP** in the **D:ARCHIVE/SYSTEM FILES/SCREEN SHOT** folder.

## SHORTCUT TO ENABLE DISK ID

Now you can get to the **ENABLE DISK ID** dialog instantly by simply pressing the letter **E** on either the **Session Controller** or **KC-24 keyboard**. This allows you to easily disable drive ID's that are not in use, thus speeding up access to file browsing, backup and other functions that scan for drives.

## BUGS FIXED IN VERSION 3.42

PROBLEM/BUG	COMMENTS
Can't initialize unformatted BD-RE disks	BD-RE media is now commonly shipped in a raw, unformatted state. RADAR will detect such disks and automatically do a low-level format when you initialize them via the <b>INIT DISK</b> menu.
Can't backup to unformatted BD-RE disks	RADAR will automatically do a low-level format and initialize to FAT32 when you backup to raw (unformatted) BD-RE media
Confusing message when exporting to the audio drive	Strange messages like "CAN'T LOAD FILE \RESTORE\0:USER" will no longer appear when exporting files to the USER folder on the currently-mounted audio drive.
Stereo WAV files exported from RADAR play back at half speed on some DAWs	The "Block Align" and "Data Rate" values in the WAV header are now set appropriately for stereo exports.
Backup has incorrect Project Info File	When selecting a project other than the currently-loaded project for backup, the project notes text file contained incorrect information (e.g. track names).

PROBLEM/BUG	COMMENTS
RADAR configured for <b>iZ FILE MANAGER</b> lists drive E:/ in the file browser.	The <b>iZ FILE MANAGER</b> software partition should not be accessible in RADAR mode. Therefore it no longer appears in any of the RADAR menus.
Custom file names not working correctly on RADARLink slave backup/export	The track name component was missing from the custom file names when using RADAR Link solo mode to back up a slave machine.
No error message when attempting to use an invalid project template	Now, if you attempt to create a new project on a RADAR BWAV (96K cluster) audio drive using a non-BWAV (e.g. 128K cluster) project template, the message <b>INVALID TEMPLATE</b> will appear and you will then be given the opportunity to select a different template.
<b>DAMSEL MODE</b> preference is no longer required	The <b>DAMSEL MODE</b> option has been removed from the <b>PREFERENCES MENU</b> .
Drive still appears on the mount list after it has been removed	When selecting a drive to mount via the <b>SELECT DISK</b> dialog, RADAR will scan the SCSI bus to determine what drives are connected, and display <b>NO DISK</b> for drives that have been removed.
Drive still appears in the browser after it has been removed	RADAR will scan the SCSI bus before presenting the list of drives in the browser.
Browse during drive spin-up freezes or crashes RADAR	Now, if you use the file browser immediately after inserting a drive into one of RADAR's drive bays, it will say "SCANNING" while the drive spins up.
RADAR sometimes crashes trying to access SCSI drives after unmounting or switching modes	You can now safely browse disks after unmounting from Span Disk mode, and switch between Span Disk mode and Dual Disk modes.
Confusing message when attempting to RADARLink RADAR 24 and RADAR V	The message <b>INCOMPATIBLE H/W ON SLAVE UNITS</b> will now appear.
Reinitializing a mounted drive as HFS crashes RADAR	You can now initialize the currently-mounted audio drive as HFS. When the initialization is complete, the message <b>NO DISKS MOUNTED</b> will appear since RADAR does not use the HFS format for audio drives.

PROBLEM/BUG	COMMENTS
“Archiver Error” restoring project with “.” in the project name	Backups with “.” in the project name will now restore successfully.
<b>BURN AUDIO CD</b> creates track containing full scale noise	The noise occurred if the file selected for burning did not have a “.wav” extension. Now it doesn’t matter what the file name is as long as it is a 16 bit, 44.1 KHz wav file.
RADARView time code display moves when switching RADARView resolution	When switching between 800x600 and 1024x768 resolution in the <b>RADARVIEW RES</b> preference menu, the time code counter would shift, overwriting part of the RADARView display.
Confusing message in <b>CLONE RADAR DISK</b> dialog	Now, when you try to clone a RADAR disk to a non-existent drive, the error message will be <b>COPY DISK ID IS INVALID</b> instead of <b>XXXGB XTRA REQ'D</b> .
RADAR sometimes crashes when pasting a track on a RADARLink slave machine	The problem with pasting over the <b>MARK IN</b> point on a RADARLink slave has been resolved.
<b>RECALL LOC</b> can overwrite the LOC Name	The  key is now disabled while in <b>RECALL LOC</b> mode so that the LOC Name is protected.
<b>PASSWORD</b> prompt reappears in file browser when copying files from a network drive	The <b>USER NAME</b> and <b>PASSWORD</b> prompts will now only appear the first time you access a network drive.
RADAR gives confusing message if drive fills up during FTP backup	Now, in addition to saying <b>NETWORK ERROR</b> , RADAR will report <b>FILE NOT SAVED: DESTINATION FULL</b> .
“Export Complete” is not really complete	If there is a problem reading one of the audio files during a stereo export, RADAR will now report <b>EXPORT FAILED</b> rather than creating a WAV file with a silent channel.
Can’t connect to FTP server if server password is blank	Now, you can just hit  at the <b>USER PASSWORD</b> prompt if there is no password.
Can’t export tiny clip of audio	RADAR will no longer say <b>NO AUDIO SELECTED</b> when you export less than one frame of audio.
No <b>BACKUP TYPE</b> prompt when backing up as a <b>SET</b>	Now, when you choose a <b>BACKUP GROUPING</b> of <b>SET</b> , you will be able to select either the <b>RADAR(WITH UNDOS)</b> or the <b>DSET (LEGACY)</b> type of backup.

PROBLEM/BUG	COMMENTS
RADAR freezes after switching from dual wire AES to single wire at 192 KHz	After recording at 192 KHz from AES digital inputs in dual wire mode, you can now go into the <b>DIG I/O SDQ</b> menu and switch to <b>SINGLE</b> without having RADAR freeze.
RADAR crashes if project won't load	Now, RADAR will give an error message and prompt <b>CAN'T LOAD PROJ SELECT ANOTHER</b> if a project won't load.
% percent is redundant	RADAR will now say <b>Writing file xx.x% complete</b> not <b>Writing file xx.x% percent complete</b> while making an ISO file image.
<b>DSET(LEGACY)</b> backup gives <b>FOUND DUPLICATE</b> error	After canceling a <b>DSET(LEGACY)</b> type of backup, you will no longer get the <b>FOUND DUPLICATE</b> error on subsequent backups.
Possible hang during recording	On rare occasions, a RADAR 24 unit equipped with an Adrenaline card would freeze up when stopping at the end of recording or playback, possibly resulting in the loss of audio data.

## MENU STRUCTURE IN VERSION 3.44

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Here is the RADAR menu structure for Version 3.44. Additions since version 3.40 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  
 IDE 0 MASTER  
 IDE 1 MASTER  
 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

(if Adrenaline Plus present)

SEAMLESS 64K

CLONE RADAR DISK

DISK NOTES

ENABLE DISK ID

### 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  
 ANALOG I/O LEVEL  
 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**

(moved from PREFERENCES)

**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 SETTNCS  
     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  
 RESTART DESKTOP  
 FACTORY SETTINGS  
 INSTALL PREV VER

**HELP MENU**

RELEASE NOTES  
 MANUAL

**SHUTDOWN RADAR**