

## RELEASE NOTES

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### **NOTICE: READ THIS BEFORE USING THE SOFTWARE PROGRAM INSTALLED ON THIS PRODUCT**

**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 3.50

Welcome to RADAR® Version 3.50! Please take a few moments to review the Release Notes to view what's new in Version 3.50.

### 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	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, if you do any of the following to RADAR BWAV disks in another system, **you risk loss or corruption of RADAR® recorded data:**



- 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 3.50 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 3.50

Before you can upgrade to version 3.50, your RADAR® unit must have up-to-date hardware as outlined below.

### RADAR SYSTEM DRIVE



Version 3.50 is supplied on a new iZOS drive which will replace your existing system drive. If you want to keep backups or other data from your old system drive, refer to the instructions under *INSTALLING VERSION 3.50 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 3.50 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 3.50 software. If you see something similar to either:

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

then you have an 800 MHz processor. While this is adequate for Version 3.50, 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)**

then you have a 1 GHz Celeron processor. Again, this is adequate for Version 3.50, 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 3.50 requires a **minimum of 384 MB of host memory** (RAM). The maximum amount of host memory that can be installed with Version 3.50 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: 393216 K OK**

then 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 3.50 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

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### MEMORY

The Adrenaline® Plus card requires 768 MB 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 3.50 SOFTWARE ON YOUR RADAR

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Version 3.50 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<sup>®</sup> 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<sup>®</sup> Plus mode after installation. You may also need to upgrade your hardware (see above),.

After upgrading your RADAR<sup>®</sup>, you can mount audio drives from old versions of RADAR<sup>®</sup> software, and they will automatically be upgraded to 3.50. This will work for any RADAR<sup>®</sup>24 or RADAR<sup>®</sup>V audio drive, and also with audio drives from RADAR<sup>®</sup>II Version 2.20 or later. If a drive is to be loaded from a RADAR<sup>®</sup>II unit running older software you must first choose **UPGRADE SYSTEM** from the **SYSTEM MENU** on the RADAR<sup>®</sup> II to prepare the drive.



Audio drives formatted as **AUDIO:RADAR BWAV** are not compatible with RADAR<sup>®</sup> 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<sup>®</sup> format and **MAKE PORTABLE** when un-mounting it. Then it can be used in any software version.

If you decide to revert to an earlier version of software, after installing version 3.50, 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, use the supplied iZOS Recovery DVD and follow the instructions on the next page.

## IZOS AND VERSION 3.50 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 comes 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, or you can 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 3.50 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.

## WHAT'S NEW IN VERSION 3.50?

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### SUPPORT FOR USB DRIVES

Version 3.50 allows you to connect "FAT32" formatted USB drives to your RADAR unit for backup/restore and import/export.



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.

### IZ FILE MANAGEMENT WORKSPACE

If you have a keyboard and mouse connected to your RADAR unit, you can go to the full screen alternate desktop workspace to move files between drives and media connected to RADAR.

## MENU STRUCTURE IN VERSION 3.50

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Here is the RADAR® menu structure for Version 3.50. It is the same as in Version 3.42.

### 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

PING

( if "Shift-# GAMES" )

( 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

SYNC REFERENCE

**SYNC MENU** (cont'd)

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
  - 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
- WAVE NOISE FLOOR
- NAME TRACK

**PROJECT MENU** (cont'd)

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  
PEAK HOLD TIME  
CLIP HOLD TIME

(if Adrenaline®Plus present)

**PREFERENCES MENU** (cont'd)

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

**PREFERENCES MENU** (cont'd)

## 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**