

## RELEASE NOTES

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**GOVERNING LAW:** This license will be governed by the laws of Canada.

## IMPORTANT NOTICES FOR RADAR® VERSION 4.0

### 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).

### CANNOT RADARLINK TO UNITS RUNNING OLD RADAR SOFTWARE

RADAR units running software version 4.0 can only be RADARLinked with RADAR units running software version 3.40 or later, and which have an Adrenaline® Plus card installed.

## WHAT'S NEW IN RADAR® 6 WITH VERSION 4.0?

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Welcome to RADAR® 6! Please take a few moments to review the Release Notes to see what's new in Version 4.0.

### TOUCHSCREEN DISPLAY

RADAR 6 has a 10.1" touchscreen display in the front panel. The display shows the RADARView™ graphical user interface without requiring an external monitor. Virtually all functions of the RADAR 6 can be controlled using the touchscreen.

### NEW FRONT PANEL

RADAR 6 has a new fingerprint-resistant front panel with a high-contrast white LED ring-lit power switch. It includes tactile transport keys, for basic playback and recording operations; and two USB connectors and an eSATA connector, allowing drives to be connected easily for recording, data transfer, software updates, etc.

### NEW RADARVIEW GRAPHICS

RADARView™ has a new look on RADAR 6. The graphical user interface window is now widescreen, supporting resolutions of 1600x900 and 1440x900 for external monitors, or 1024x600 for the native touchscreen resolution. The background image, waveform colours, and screen saver image are user-selectable and customizable, with four skins installed by default. Mini meters are present to the left of each track's waveform.

### DIRECT RECORDING

RADAR 6 records to drives which are connected directly to the host via SATA and USB, including USB flash drives and SD cards. New carriers allow installed drives to be removed from RADAR and connected to a computer via USB 2.0. All standard system and audio drives are solid-state drives, resulting in much lower power requirements and noise. Direct recording also results in faster cueing, editing, and data transfers.

### ULTRA NYQUIST AND CLASSIC 96 ANALOGUE I/O

RADAR 6 ships with new Analogue I/O cards. Classic 96 are Classic cards with an extended sample rate range up to 96 kHz. Ultra Nyquist cards allow playback and recording up to 192 kHz, with lower noise, distortion, power consumption, and cost than the previous Nyquist and Super Nyquist cards.

### BACK PANEL FOOTSWITCH CONNECTORS

RADAR 6 has footswitch connectors on the back panel to allow footswitch control of functions such as start/stop and punch-in/out. Footswitch connectors are also still available on the Session Controller.

## ADJUSTABLE RECORD PUNCH IN/OUT POINTS

If you punch in too early or punch out too late when recording an overdub, you can use the **MODIFY EDIT** function to peel back a portion of the recording to reveal the underlying audio.

## MULTIPLE MARK IN/OUT RANGES FOR EXPORT TO AUDIO CD

Now you can mark multiple ranges, and then export them all in one step – either to a folder or directly to an Audio CD. You can even select ranges from multiple projects.

## REDO RECORD TRACK SELECTION

If you want to undo some tracks of a particular take while keeping others, you can select tracks after pressing **REDO**.

## SELECT MULTIPLE PROJECTS FOR EXPORT

You can now choose **ALL PROJECTS**, **CURRENT PROJECT**, or **SELECTED PROJS** for export (just as you can when doing a backup).

## CURSOR POSITION PREFERENCE

You can now select whether you want the current time cursor position to be in the middle of the waveform view, or shifted to the left or right part of the view.

## RADAR® SYSTEM DRIVE RECOVERY PROCEDURE



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

Disconnect all other drives, including SATA-connected audio drives and external USB drives, so that they are not accidentally erased.

- 1** Plug a PC USB keyboard into a USB port on RADAR.  
Turn on RADAR, and at the initial (POST) screen, press the [DEL] key to enter CMOS Setup.  
In Boot Settings / Hard Disk Drives, change the settings on your RADAR unit so that the USB drive comes first in the boot sequence, and save the changes.
- 2** Plug the **iZOS Software Recovery USB Drive** into a USB port and reboot RADAR.
- 3** When the System Rescue 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.
- 5** **WARNING: ALL DATA ON THE SYSTEM AND ARCHIVE PARTITION WILL BE LOST** will appear as a final warning, with the instruction to **TYPE 'YES' AND PRESS ENTER TO PROCEED**. At this prompt, 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 USB drive, rebooting and changing the CMOS settings back to the original boot sequence.

- 6** 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 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, RADAR software will start automatically.
- 8** When the RADARView™ screen appears, check the date and time beneath the iZ® logo in the top left corner of the screen. If they are incorrect, go to the **SET TIME & DATE** option in the **SYSTEM MENU** to update.  
  
Update RADAR to the most current software version if required.

# MENU STRUCTURE IN VERSION 4.0

Here is the RADAR® menu structure for Version 4.0.

## SYSTEM MENU ▼

### SYSTEM INFO ▼

- RADAR SOFTWARE VERSION
- SERIAL NUMBER
- CPU TYPE
- CPU SPEED
- SYSTEM RAM
- NETWORK CARD
- MAC ADDRESS
- IP ADDRESS
- RECORDING ENGINE
- SYNC ENGINE
- ANALOGUE I/O 1
- ANALOGUE I/O 2
- ANALOGUE I/O 3
- MADI BOARD
- AES BOARD
- ADAT BOARD
- TDIF BOARD
- SATA 1
- SATA 2
- SATA 3
- IDE MASTER
- SET TIME & DATE
- SET SERIAL NUM
- UPDATE SOFTWARE

## DISK MENU ▼

- MOUNT AUDIO DISK
- UNMOUNT DISK
- EJECT CD/DVD
- SHOW DISK SPACE
- RECLAIM SPACE
- MAKE PORTABLE
- ERASE ALL AUDIO
- INIT DISK
- MIRROR DISK
- CLONE DISK
- DISK NOTES

## 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 REFERENCE

### RADARLINK ▼

- ENABLE/DISABLE
- RADARLINK SOLO
- RADARLINK ID

## SYNC MENU (CONT) ▼

### 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

## IO 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
- MADI SETTINGS ▼
  - (IF MADI CARD PRESENT)*
  - SAMPLE RATE IN
  - EMPHASIS IN
  - EMPHASIS OUT
  - LEGACY MODE (96K)
  - INTERLACE (48CH)
  - COAX/OPTICAL IN
  - INSTALL FIRMWARE

### 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

## 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
- LOAD MACROS
- SAVE MACROS
- 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  
 ASYNC PLAYBACK  
 WAVE NOISE FLOOR  
 NAME TRACK  
 RENUMBER LOCATES  
 REBUILD WAVES  
 RESET SLIPS  
 I/O ROUTING ▼

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

PROJECT NOTES  
 PROJECT PREFS ▼

NEW PROJ SETTINGS  
 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  
 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  
 SAVE STATE DELAY  
 AUTO RECLAIM  
 TRK ARM GROUPING  
 IGNORE AES FLAGS  
 MUTE I/O ON STOP

**PREFERENCES MENU (CONT) ▼**

ARROW KEY GOTO  
 SEAMLESS CYCLE  
 TRACK ARM RECALL  
 ZOOMLEVEL RECALL  
 ASSIGN FT-SWITCH  
 ASSIGN MM LOC  
 ASYNC CUE TIME  
 RECORD PREFS ▼

1-BUTTON RECORD  
 TRACK ARM ACTION  
 RECORD MK IN/OUT  
 REC XFADE TIME  
 24 TRKS AT 192K  
 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 SPEED  
 DVD BURN MODE

**PROJECT PREFS ▼**

NEW PROJ SETTINGS  
 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

**NETWORK PREFS ▼**

INTERFACE PREFS ▼  
 HOST NAME  
 DHCP SERVER  
 LOCAL IP ADDRESS  
 SUBNET MASK  
 GATEWAY  
 PRIMARY DNS  
 SECONDARY DNS  
 SMTP HOST  
 FTP SERVER  
 FTP LOGIN NAME  
 FTP PASSWORD

**SERVER PREFS ▼**

NETWORK PROTOCOL  
 SERVER IP ADDR  
 SERVER NAME  
 SERVER SHARE  
 CLIENT WORKGROUP

**EMAIL PREFS ▼**

COMPANY NAME  
 LOCATION  
 REPLY EMAIL  
 NETWORK CONTROL

**RADARVIEW PREFS ▼**

RADARVIEW RES  
 RADARVIEW SKIN  
 LABEL COLOUR  
 WAVE/BAR COLOUR  
 SCRNSAVER MENU ▼  
 SAVER DELAY  
 IMAGE EFFECTS  
 NUMBER OF METERS  
 CURSOR POSITION  
 CLOCK MODE

**DIAGNOSTICS MENU ▼**

CHECK DISK  
 REPAIR DISK  
 CHECK PROJECT  
 SET STARTUP PROJ  
 REALTIME ERRORS  
 SHOW AUDIO LEVEL  
 PING IP ADDRESS  
 CONFIGURE DEBUG  
 SAVE DEBUG  
 EMAIL DEBUG  
 SCREEN CAPTURE  
 FACTORY SETTINGS  
 INSTALL PREV VER

**HELP MENU ▼**

RELEASE NOTES  
 MANUAL

**SHUTDOWN RADAR**