

RELEASE NOTES

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(ON RADAR[®] USE THE KEY TO SCROLL DOWN)

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

IMPORTANT NOTICES FOR RADAR® VERSION 4.0.1

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 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 4.0.1 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 VERSION 4.0.1?

BLU-RAY SUPPORT

With an iZ[®]-approved Blu-ray drive installed, RADAR[®] now supports BD-RE discs as rewritable archive media. The Blu-ray device can be selected in dialogs for data storage operations such as backup and restore, import and export.

BUGS FIXED IN VERSION 4.0.1

PROBLEM/BUG	Comments
Jog enter click	When jogging, a click was sometimes heard immediately after entering jog.
Warning messages not displayed correctly on RADARView™	The display of warning messages on the RADARView screen was improved (e.g. low disk space, hardware init failure).
Optical drive listed as option even if not connected	If the RADAR does not have an optical (DVD, Blu-ray) drive connected, the DVD option will no longer be listed in device selection dialogs.
WEB option for software update incompatible with new web site	The WEB option for updating software directly from the izcorp.com website has been removed; instead, please download the software install file from the website, copy it to a USB flash drive or to your local network, and update from that device.

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

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 **REDD**.

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.

INSTALLING VERSION 4.0.1 SOFTWARE ON YOUR RADAR[®]





After upgrading your RADAR, you can mount audio drives from older versions of RADAR software, and they will automatically be upgraded to 4.0.1. This will work for any RADAR 6, RADAR V or RADAR 24 SATA audio drive.

Since version 4.0.1 is a free upgrade from version 4.0, you can download the file **RADAR_v4.0.1.zip** directly from the iZ[®] web site. This file can be copied to a USB drive or a network drive and then installed as follows:

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

- U1: If you are installing the 4.0.1 software upgrade from a USB drive connected to your RADAR, use the
 , , and ENTER keys to locate the file RADAR_v4.0.1.zip. Then press ENTER.
- N: If you are installing the 4.0.1 software upgrade from a network drive, use the , and ENTER keys to locate the file RADAR_v4.0.1.zip. Then press ENTER.



Answer YES to the UPGRADE TO VER 4.0.1? prompt.

3 When prompted, power off RADAR and reboot.

4 When RADAR has finished rebooting, it will start up in the new version.

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.



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.



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.

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



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.

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 4.0.1

Here is the RADAR® menu structure for Version 4.0.1.

SYSTEM MENU V 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 V 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 V 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 RADARI INK ID

SYNC MENU (CON'T) MACHINE CONTROL ENABLE/DISABLE SELECT TYPE 9-PIN SETTINGS V DEVICE ID 9-PIN CHASE MODE TRACK ARM MODE VARISPEED MODE SHUTTLE-0 MODE TC OUT MODE-CUE TC OUT MODE-PLAY MMC SETTINGS V DEVICE ID SYNC REF OUTPUT LOST SYNC IN REC I/O MENILI I/O ROUTING V 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 ▼ (IE AES CARD PRESENT) SAMPLE RATE IN EMPHASIS IN EMPHASIS OUT MULTI-CHNL TYPE ADAT SETTINGS V (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 V 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 V SHOW SIZE IMPRT PROJ START EXPORT FORMAT V MONO FORMAT STEREO FORMAT FILL SILENCE REFORMAT QUALITY WRITE VERIFY FILE NAME FORMAT PRESET V TRK-NAME-STAMP TRK-PROJ-STAMP TRK-REGION-NAME TRK-REGION-PROJ PROJ-TRK-REGION TRK-REGION (DOS) CUSTOM V SELECT TEMPLATE MAKE TEMPLATE EXPORT TEMPLATE FDIT TEMPI ATE DELETE TEMPLATE DVD BURN MODE DVD BURN SPEED

RELEASE NOTES

PROJECT MENU V 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 V INPUT ROUTING OUTPUT ROUTING RESET ROUTING **DIG 2-CH ROUTING** DIGITAL INPUTS 8-BUS MODE PROJECT NOTES PROJECT PREFS V NEW PROJ SETTINGS NEW PROJ NUMBER DEF SAMPLE RATE DEF BIT RES DEE 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 V UNDO EDIT REDO EDIT MODIFY EDIT CUT COPY PASTE ERASE LOOP SLIDE INSERT SILENCE REVERSE GAIN/FADE LISTEN EDIT XFADE TIME CROSSFADE TYPE MUTE TRACKS RECORD SAFE PREFERENCES MENU V 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 GNORE AES FLAGS MUTE I/O ON STOP

PREFERENCES MENU (CON'T) ARROW KEY GOTO SEAMLESS CYCLE TRACK ARM RECALL ZOOMLEVEL RECALL ASSIGN FT-SWITCH ASSIGN MM LOC ASYNC CUE TIME RECORD PREFS V 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 V SHOW SIZE IMPRT PROJ START EXPORT FORMAT MONO FORMAT STEREO FORMAT FILL SILENCE REFORMAT QUALITY WRITE VERIFY FILE NAME FORMAT PRESET V 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 V 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 V NETWORK PROTOCOL SERVER IP ADDR SERVER NAME SERVER SHARE CLIENT WORKGROUP EMAIL PREFS V COMPANY NAME LOCATION REPLY EMAIL NETWORK CONTROL RADARVIEW PREFS V RADARVIEW RES RADARVIEW SKIN LABEL COLOUR WAVE/BAR COLOUR SCRN-SAVER MENU SAVER DELAY **IMAGE EFFECTS** NUMBER OF METERS CURSOR POSITION CLOCK MODE

DIAGNOSTICS MENU V 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