

3.38 Manual Addendum

This addendum provides changes and additions to the 3.30 Manual for all RADAR® products. The 3.30 Manual page numbers are referenced for contextual purposes.

Menu Tree Overview

This section provides an overview of the RADAR® menu structure. (pg. 125)

MAIN MENU MENU >

SYSTEM MENU >

SYSTEM INFO

RADAR SOFTWARE VER
SERIAL NUMBER
RECORDING ENGINE
INSTALLED RAM
CPU TYPE
CPU SPEED
IP ADDRESS
MAC ADDRESS
ETHERNET TYPE
ANALOG I/O
DIGITAL I/O 1
DIGITAL I/O 2
PRIMARY MASTER
SECONDMASTER
SCS ID 0

SET TIME & DATE

SET SERIAL NUMBER
UPDATE SOFTWARE

DISK MENU >

MOUNT/UNMOUNT
SHOW DISK SPACE
RECLAIM SPACE
MAKE PORTABLE
ERASE ALL AUDIO
INIT DISK (NOW/HAS RADAR BWAV OPTION)
DISK MODE (NOW HAS A DUAL DISK OPTION, IF ADRENALINE® PLUS PRESENT)
24 TRKS AT 192K (IF ADRENALINE® PLUS PRESENT)
SEAMLESS 64K
CLONE RADAR DISK
DISK NOTES

SYNC MENU >

TC SETTINGS >

TC FORMAT
TC RATE
SMPTE LOCK SPEED
FREEWHEEL TIME
STATIC TC OUT
CHASE MODE (REPLACES RECHASE MODE)
SHOW SYNC DRIFT
SYNC THRESHOLD
CHASE ON POWERUP

SYNC REFERENCE

RADARLINK >

ENABLE/DISABLE
RADARLINK SOLO
RADARLINK ID

MACHINE CONTROL >

ENABLE/DISABLE
SELECT TYPE
9-PIN SETTINGS >
DEVICE ID
9-PIN CHASE MODE (REPLACES CHASE MODE)
TRACK ARM MODE
VARISPEED MODE
SHUTTLE-0 MODE
TC OUT MODE-CUE
TC OUT MODE-PLAY

SYNC MENU (CON'T)>
 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
 CARDTYPE

FILE MENU>
 BACKUP
 RESTORE
 EXPORT (NOW HAS AUDIO
 IMPORT RECORDING DRIVE OPTION)
 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
 EXPORT FORMAT
 EXPORT SILENCE
 REFORMAT QUALITY
 WRITE VERIFY
 FILE NAME FORMAT
 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
 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 SETTINGS
 NEW PROJ NUMBER
 DEF SAMPLE RATE
 DEF BIT RES
 DEF TC FORMAT
 DEF TC RATE

PROJECT MENU (CON'T) >
 DEF START TIME
 DEF UNDO LEVEL
 DEF WAVE NS FLR

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)
 PEAK HOLD TIME
 CLIP HOLD TIME
 SAVE STATE DELAY
 SCRN-SAVER MENU>
 SAVER DELAY
 IMAGE EFFECTS
 AUTO RECLAIM
 TRK ARM GROUPING
 IGNORE AES FLAGS
 UNMOUNT PORTABLE
 DAMSEL MODE
 RADARVIEW RES
 CLOCK MODE
 MUTE I/O ON STOP
 RECORD PREFS>
 1-BUTTON RECORD
 TRACK ARM ACTION
 RECORD MK IN/OUT
 LOW DISK WARNING
 RECORD VERIFY
 RECORD ON CHASE
 PROJECT PER TAKE

FILE PREFS>
 SHOW SIZE
 EXPORT FORMAT
 EXPORT SILENCE
 REFORMAT QUALITY
 WRITE VERIFY
 FILE NAME FORMAT
 DVD BURN MODE
 DVD BURN SPEED

PROJ 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
 DNS DOMAIN NAME
 PRIMARY DNS
 SECONDARY DNS
 FTP SERVER
 FTP LOGIN NAME
 FTP PASSWORD

SERVER PREFS>
 NETWORK PROTOCOL
 SERVER IP ADDRESS
 SERVER NAME
 SERVER SHARE
 CLIENT WORKGROUP

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PREFERENCES MENU (CONT)>
  EMAIL PREFS>
    COMPANY NAME
    LOCATION
    REPLY EMAIL
  NETWORK CONTROL>

DIAGNOSTICS MENU>
  SCAN SCSI BUS
  INIT DISK (NOW HAS RADAR BWAV OPTION)
  CHECK DISK
  REPAIR DISK
  CHECK PROJECT
  REALTIME ERRORS

DIAGNOSTICS MENU (CONT)>
  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

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New Software Install Procedure

Once you have version 3.38 installed, you will use the **UPDATE SOFTWARE** selection in the **SYSTEM MENU** for future installs. Here, you will choose how you want to install (from floppy, CD, REV disk, local network, iZ website, etc.). Follow the prompts to verify a proper installation disk before rebooting RADAR®.

The **DOWNGRADE SYSTEM** selection in the **SYSTEM MENU** has been replaced by the **INSTALL PREV VER** selection 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 an older version from floppy, CD, etc.

To upgrade the software:

1. Use the **MENU/PREV**, **ARROW** keys and **ENTER** key to go to **THE MAIN / DIAGNOSTICS / INSTALL PREV VER** dialog and press the **ENTER** key.
2. At the **UPDATE S/W FROM** prompt, select the software location and press the **ENTER** key.
3. At the **INSTALL VERSION 3.3X? YES OR NO** prompt select **YES** and press the **ENTER** key.

To downgrade the software:

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN / DIAGNOSTICS / INSTALL PREV VER** dialog and press the **ENTER** key.
2. Select **3.3X** or **OTHER** and press the **ENTER** key.
3. If **OTHER** is selected, at the **INSTALL S/W FROM** prompt, select the software location and press the **ENTER** key.
4. At the **INSTALL VERSION 3.3X? YES OR NO** prompt select **YES** and press the **ENTER** key.

Install Interim Software Updates Directly from the iZ Web Site

If your RADAR® is connected to the internet, you will be able to install **upcoming** interim software upgrades directly from www.izcorp.com without the need to manually FTP files or create a software disk. When you select **UPDATE SOFTWARE** from the **SYSTEM MENU**, and choose “WEB:izcorp.com”, the newest software version number will appear. If it is a free interim upgrade, you will be able to download the software directly to your RADAR®.

For major upgrades which require payment (as indicated by a “\$” sign), you will not be able to download the software directly, so RADAR® will ask if you would like an email request to be sent to iZ Sales. To assist the sales process, your RADAR®’s serial number, current software version, and information about the installed memory and processor will automatically be included in the email. You will also be prompted to enter your name, phone number, company name, location and email address. Note that when entering your email address, you can use the [#] and [&] keys to enter the ‘@’ and ‘.’.

File Transfer to/from Network Devices using RADAR®’s FTP Client

Now you can speed up backup/restore, import/export, and file copy to network drives by connecting to an FTP server with RADAR® as the client.

To set FTP client on RADAR®:

1. Use the **MENU/PREV**, **ARROW** keys and **ENTER** key to go to the **MAIN /PREFERENCES/NETWORK PREFS/SERVER PREFS/NETWORK PROTOCOL** and press the **ENTER** key.
2. Select **FTP** and press the **ENTER** key.
3. At the **SERVER IP ADDR** input your FTP server’s IP address
4. At the **SERVER NAME** input your FTP server’s name
5. When you backup/restore, import/export, and file copy, the file browser will display the FTP server as drive **N:**
6. Press [**ENTER**] on **N:[SERVER NAME]**
7. At the **USER NAME** prompt enter the FTP server’s user name and press the **ENTER** key.
8. At the **PASSWORD** prompt enter the FTP server’s password and press the **ENTER** key.

Ping IP Address

As an aid to network setup, the **PING IP ADDRESS** selection in the **DIAGNOSTICS MENU** provides a way to test communication.

To ping an IP address:

1. Use the **MENU/PREV**, **ARROW** keys and **ENTER** key to go to the **MAIN /DIAGNOSTICS MENU/PING IP ADDRESS** and press the **ENTER** key.
2. Input the IP address of the network device to communicate with (SERVER IP is default address) and press the **ENTER** key.

Copy and Paste Files to DVD-R or CD-R

Now, when you use the file browser to copy files, you can paste them to a DVD multi drive containing a blank DVD-R or CD-R. RADAR® will automatically make an ISO image and burn it to the disk.

To paste files to a blank DVD-R or CD-R:

1. Press the **SHIFT** and **B** keys to browse. Press the **COPY** key on the desired file or folder and press the **ENTER** key.
2. Press the **ENTER** key on **B:DVD BLANK DISK**
3. Press the **PASTE** key on **BLANK DVD-R DISK** or **BLANK CD-R DISK**
4. At the **X FLS/X MB PROCEED YES OR NO** prompt select **YES** and press the **ENTER** key.
5. At the **NAME DISK:** input the name of the disk and press the **ENTER** key.

One-Step Backup to DVD-R or CD-R

Now, you can backup to **B:DVD BLANK DISK**. RADAR® will automatically create an ISO image and burn it to a blank CD-R or DVD-R.

Project Notes Included in Backups

A project notes text file is now automatically included in the **DSET** folder whenever you backup a project (just as it is included when you flatten a project or do a mono export).

Disk Info File

When you mount an audio drive, a disk info file will automatically be created in the **DISK INFO FILE** folder on RADAR®'s system drive. This file will contain information about the drive capacity, the projects on the drive, and the contents of the **USER** folder. When you unmount an audio drive, the disk info file will be

removed from the system drive, and placed in the **USER** folder on the audio drive itself. The disk info file is also included in the **DSET** folder whenever you backup a project.

To view **DISK INFO FILE**:

1. Use the **MENU/PREV**, **ARROW** keys and the **ENTER** key to go to the **MAIN / DISK MENU / DISK NOTES** dialog and press **ENTER** **OR** press **SHIFT** and then press the **PROJECT NOTES** key on the Session Controller.

2. Press the **ENTER** key on **VIEW**

To save the **DISK INFO FILE**:

1. Use the **MENU/PREV, ARROW** keys and **ENTER** key to go to **THE MAIN / DISK MENU / DISK NOTES** dialog and press the **ENTER** key **OR** press the **SHIFT** key and then press the **PROJECT NOTES** key on the Session Controller.
2. At the **PROJECT NOTES:** prompt select **SAVE** and press the **ENTER** key.
3. At the **SAVE AS:** prompt select **TXT** or **PDF** and press the **ENTER** key.
4. At the **SAVE TO:** prompt, use the **UP** and **DOWN** arrow keys to select the device you wish to save to, and press the **ENTER** key. This list will include **D:ARCHIVE** (RADAR® internal system drive partition), **NET: FOLDER** (network shares), **A:FLOPPY**, **B:DVD** (DVD-RAM, DVD-R or CD-R), **REV DISK**, and any Fat32 or HFS Standard formatted SCSI drives connected to the RADAR®.
5. At the **SELECT FOLDER:** prompt, select the destination folder using the **UP/DOWN** arrow keys and press the **ENTER** key.

New Project Retains Track Names of Current Project

Using **CURRENT** project settings when creating a new project now keeps the track names of the current project.

Audio Level Measurement

The new **SHOW AUDIO LEVEL** selection in the **DIAGNOSTICS MENU** provides an accurate digital read-out of the dBFS audio level on the selected track.

To **SHOW AUDIO LEVEL**:

1. Use the **MENU/PREV, ARROW** keys and **ENTER** key to go to **THE MAIN / DIAGNOSTICS MENU / SHOW AUDIO LEVEL** dialog and press the **ENTER** key.
2. Press the track arm key of any track to view the audio level in dBFS of that track

Audio Level Setting

Now, when you set your analog audio input and output levels, you can do it by setting the level in dBu at which the RADAR® will reach full scale (0 dBFS), **or** by setting the level in dBFS that a +4dBu signal will meter on RADAR® (commonly called Headroom).

To set the **ANALOG I/O LEVEL**:

1. Use the **MENU/PREV, ARROW** keys and **ENTER** key to go to the **MAIN / IO MENU / ANALOG IO LEVEL** dialog and press the **ENTER** key.
2. At the **REFERENCE TO:** prompt select **0 DBFS** or **+4DBU**
3. If you choose a reference of **0 DBFS** you will then be prompted to set the full scale input and output levels as a dBu value between +18 and +24 dBu.

4. If you choose a reference of **+4DBU** you will then be prompted to set a value between -14 and -20 dBFS. This value is commonly referred to as "headroom".

Enhanced **SYSTEM INFO** Menu

Now in the **SYSTEM INFO** from you can view the following:

- **RADAR SOFTWARE VER:** E.g 3.38
- **SERIAL NUMBER:** iZR02400101166
- **RECORDING ENGINE:** Adrenaline
- **INSTALLED RAM:** 384 MB
- **CPU TYPE:** Intel Celeron
- **CPU SPEED:** 796 MHz
- **IP ADDRESS:** 192.168.28.187
- **MAC ADDRESS:** 00c0.2657.04ba
- **ETHERNET TYPE:** FAST
- **ANALOG I/O:** NYQUIST
- **DIGITAL I/O 1:** ADAT (TYPE I)
- **DIGITAL I/O 2:** TDIF
- **PRIMARY MASTER:** Archive 108GB
- **PRIMARY MASTER:** Radar24Be 6GB
- **SECOND MASTER:** DVD-RAM SW-9573
- **SCSI ID 0:** DDYS-T18350N

To view the system info menu:

1. Press the **MENU/PREV**, **ARROW** keys and **ENTER** key to go to the **MAIN / SYSTEM MENU / SYSTEM** info dialog and press the **ENTER** key.
2. Use the **ARROW** keys or **JOG WHEEL** to view the list.

BUFFER UNDERRUN Protection when Burning DVD-R

If you are receiving **BUFFER UNDERRUN** errors when attempting to burn DVD-R disks, you can set the **DVD BURN MODE** to **SAFE**. This will set the DVD multi drive to use **PROGRAMMED I/O MODE** which is more reliable for burning. After changing the setting, you will have to reboot RADAR® for the **PIO** mode to take effect.

As this mode is very processor-intensive, it should be used only if you are experiencing **BUFFER UNDERRUN** errors. If you are performing other work on RADAR while the DVD is burning in the background, you may want to set the **DVD BURN SPEED** to "1X" so that the processor is not overloaded. When using DVD-RAM disks for backup/restore or import/export, you should set the **DVD BURN MODE** back to **NORMAL** to ensure that the processor is not overloaded.

To set the DVD burner for **DVD SAFE MODE**:

1. Press the **MENU/PREV**, **ARROW** keys and **ENTER** key to go to the **MAIN / PREFERENCES MENU/ FILE PREFS/DVD BURN MODE** dialog and press the **ENTER** key.
2. Select **SAFE** and press the **ENTER** key. You will be prompted to reboot.

DVD-R Burn Speed Preference

Now you can select the speed for burning DVD-R disks via **THE DVD BURN SPEED** option in the **FILE PREFS** menu. You can choose speeds from 1X through 8X, or choose **MAX** to let the DVD drive burn at its maximum possible speed. Note that if your DVD drive is not capable of burning at the speed you select, it will automatically use the closest available speed.

To set the burner **DVD BURN SPEED**:

Press the **MENU/PREV** arrow keys and **ENTER** key to go to **THE MAIN / PREFERENCES MENU/ FILE PREFS/DVD BURN SPEED** dialog and press the **ENTER** key.

2. Select **1X** or **2X** or **4X** or **8X** or **MAX** and press the **ENTER** key

Saving Debug Logs

The **SAVE DEBUG** option in the **DIAGNOSTICS MENU** now allows you to select the current log, the last 5 logs, last 20 logs, all logs, or any logs of your choosing. You can save these logs in text format or as a zip file to any disk or network drive.

To **SAVE DEBUG**:

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN /DIAGNOSTICS MENU / SAVE DEBUG** dialog and press the **ENTER** key
2. At the **SAVE DEBUG:** prompt select **SELECTED, CURRENT LOG, LAST 5 LOGS, LAST 20 LOGS, ALL LOGS** and press the **ENTER** key.
3. At the **SAVE AS:** prompt select **TXT** or **ZIP** and press the **ENTER** key.
4. At the **SAVE TO:** prompt, use the **UP** and **DOWN** arrow keys to select the device you wish to save to, and press the **ENTER** key. This list will include **D:ARCHIVE** (RADAR® internal system drive partition), **NET: FOLDER** (network shares), **A:FLOPPY**, **B:DVD** (DVD-RAM, DVD-R or CD-R), **REV DISK**, and any Fat32 or HFS Standard formatted SCSI drives connected to the RADAR®.
5. At the **SELECT FOLDER:** prompt, select the destination folder using the **UP/DOWN** arrow keys and press the **ENTER** key

Email Debug Logs

If your RADAR® is connected to the internet, you can email the logs directly to iZ Tech Support using the new **EMAIL DEBUG** option. To assist the support process, your RADAR®'s serial number, current software version, and information about the installed memory and processor will automatically be included in the email. Note that when entering your email address, you can use the '#' and '&' keys to enter the '@' and '.'.

To **EMAIL DEBUG**:

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN /DIAGNOSTICS MENU / EMAIL DEBUG** dialog and press the **ENTER** key
2. At the **EMAIL DEBUG**: prompt select **SELECTED, CURRENT LOG, LAST 5 LOGS, LAST 20 LOGS, ALL LOGS** and press the **ENTER** key.
3. At the Prompt for **DESCRIPTION** enter a description of the problem that occurred.
4. At the Prompt for **ENTER YOUR NAME** enter your name
5. At the Prompt for **PHONE NUMBER** enter the phone number that an iZ Support Agent can reach you at.
6. At the Prompt for **COMPANY NAME** enter your company name.
7. At the Prompt for **LOCATION** enter a town or city you are in.
8. At the Prompt for **REPLY EMAIL** enter an email address that an iZ Support Agent can reach you at.
9. At the Prompt for **SEND EMAIL NO/YES** prompt select **YES** and press the **ENTER** key.
10. A confirmation email will be sent to your **REPLY EMAIL** address that the email has been sent.

24 Frame Rate Now Valid for Slow PAL

Now, when the project **TC RATE** is set to 24, you can select **VIDEO: SLOW PAL** as the **SYNC REFERENCE**. This setting is for use with a 48 Hz PAL signal.

To **SET SYNC REFERENCE**:

1. Press the **SYNC** key
2. Select **SYNC REFERENCE**: select **VIDEO: SLOW PAL**

New 23.976 Frame Rate

This additional time code rate can be used when pull-down of the 24 frame rate is required for film or video editing. When the project **TC RATE** is set to **23.976**, you can select **VIDEO: NTSC** as the **SYNC REFERENCE**

To **SET 23.976 FRAME RATE** :

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN /SYNC MENU / TC SETTINGS/TC RATE** dialog and press the **ENTER** key
2. Select **TC RATE**: select **23.976**

File Name Format Options for Export and Flattening

The **FILE NAME FORMAT** selection in the **FILE PREFS** menu allows you to choose how exported or flattened wav files are named. To ensure that every wav file has a unique name, the name always contains the track number and either the time stamp or region number (the sequence number of audio chunks on the same track). The track name and/or project name are also included in some formats to help you organize your files. The options are:

CUSTOM E.g. Proj__Name__010001ENTrkName.WAV

This format is derived from the project name, track name and number, and region number.

PROJ-TRK-REGION E.g. ProjectName-T01-0001.WAV

This format consists of the project name, track number and region number.

TRK-REGION-PROJ E.g. T01-0001-ProjectName.WAV

The same information is rearranged so that the files are sorted by track instead of project.

TRK-REGION-NAME E.g. T01-0001-TrackName.WAV

This format is similar to the above, but contains the track name rather than the project name.

TRK-PROJ-STAMP E.g. T01-ProjName-01h22m36s12f00.WAV

This format consists of the track number, time stamp, and up to 12 characters of the project name. If the project name is more than 8 characters, the h, m, s, and f delimiters are omitted from the time stamp. If the project name is more than 12 characters, these characters will not be included in the wav file name.

TRK-NAME-STAMP E.g. T01-TrkName-01h22m36s12f00.WAV

This format is similar to the above, but with the track name rather than the project name. This is the default format

TRK-REGION (DOS) E.g. T01-0001.WAV

This simple format containing the track and region number conforms to the DOS 8.3 file naming convention.

Mute I/O on Stop

When the new, **MUTE I/O ON STOP** preference is enabled, audio will not be monitored (even on input-readied tracks) when the transport is stopped.

To enable **MUTE I/O ON STOP** preferences:

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN / PREFERENCES MENU / FILES PREFS / MUTE I/O ON STOP** dialog and press the **ENTER** key.
2. Use the arrow keys to select **ENABLED** press the **ENTER** key.

Defaults for 9-Pin Settings

On new RADAR® units, or when you restore **FACTORY SETTINGS** from the **DIAGNOSTICS MENU**, the 9-pin settings will default as follows:

DEVICE ID: "RADAR 24"
9-PIN CHASE MODE: "LOCAL"
TRACK ARM MODE: "9-PIN"
VARISPEED MODE: "9-PIN"
SHUTTLE-0 MODE: "STOP"
TC OUT MODE ON CUE: "NORMAL"
TC OUT MODE ON PLAY: "NORMAL"

Serial Number Added to System Info

After installing Version 3.36 software, the first time RADAR® boots you will be prompted to enter the serial number. Type in 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". After you have entered this number, it will appear in all debug logs, bwav headers, and in the **SYSTEM INFO** section of the **SYSTEM MENU**. If it has been entered incorrectly, it can be modified using the **SET SERIAL NUM** option in the **SYSTEM MENU**.

To modify the serial number:

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN / SYSTEM MENU / SET SERIAL NUMBER** dialog and press the **ENTER** key.
2. At the **SERIAL NUMBER:** prompt type the correct serial number and press the **ENTER** key.

RADARView Clock

The date and time now appear near the top left corner of the RADARView screen. If the date or time is incorrect, you can update it using the **SET TIME & DATE** option in the **SYSTEM MENU**.

To set the date and time :

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN / SYSTEM MENU / SET TIME & DATE** dialog and press the **ENTER** key.

2. At the **DATE:** prompt type the correct Year/Month/Day and press the **ENTER** key.
3. Use the arrow keys and to go to the **DATE:** and type the correct time of day and press the **ENTER** key.

To remove the clock from the screen or change it from 24-hour clock to a 12-hour mode:

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN / PREFERENCES MENU / CLOCK MODE /**
2. At the **CLOCK MODE:** prompt select:
 - a) **OFF** To remove the clock
 - b) **24-HR** For 24-hour clock mode
 - c) **12-HR** For 12-hour clock mode
3. Press the **ENTER** key.

Cancel Record

To cancel the current punch while RADAR® is recording:

1. Hold the **CANCEL** key then press the **RECORD** key.
2. Press **STOP**.

The red bars will remain on the screen while the transport continues to roll, however as soon as you stop the transport, the current punch will be discarded and the underlying audio (if any) will be revealed.

Breaking a Cycle

Now, if you press **PLAY** while in cycle mode, RADAR® will break out of the cycle and continue playing.

Record on Chase

With this feature, if you press **RECORD** while the chase light is blinking, RADAR® will automatically go into record when chase is locked and exit record when chase lock is lost. This feature is always enabled, but you can set the **RECORD ON CHASE** setting from **ONCE** to **CONTINUOUS** if you want RADAR® go back into record whenever chase is reestablished.

To set **RECORD ON CHASE** preferences:

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN / PREFERENCES MENU / RECORD PREFS / RECORD ON CHASE** dialog and press the **ENTER** key.
2. At the **RECORD ON CHASE** use the left and right arrow keys to select **ONCE** or **CONTINUOUS** and press the **ENTER** key.

Project Per Take

With this option enabled, RADAR® will automatically create a new project whenever the transport stops while in record. This leaves you ready to record the next take in a new project.

To enable **PROJECT PER TAKE** :

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN / PREFERENCES MENU / RECORD PREFS / PROJECT PER TAKE** dialog and press the **ENTER** key.
2. At the **PROJECT PER TAKE** use the **LEFT** and **RIGHT** arrow keys to select **ENABLED** or **DISABLED** and press the **ENTER** key.

New Project Number Preference

This feature allows you to specify how you want new projects to be numbered. If you select **FROM 1**, RADAR® will assign the lowest available project number whenever a new project is created. If you select **FROM CUR**, then RADAR® will use the next available number starting at the current project number.

To set **NEW PROJECT NUMBER** preference:

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN / PREFERENCES MENU / PROJ PREFS / NEW PROJECT NUMBER** dialog and press the **ENTER** key.
2. At the **NEW PROJECT NUMBER:** dialog use the **LEFT** and **RIGHT** arrow keys to select **FROM 1** or **FROM CUR** and press the **ENTER** key.

Added "Nudge" to Chase Mode Settings

The **RECHASE MODE** has been renamed to **CHASE MODE**. There are now three options for handling the situation where the clock (sync) source and the time code (chase) are not in sync with each other:

LOCK-AND-DROP	Chase to the incoming time code initially, but once positional chase is established, stop looking at the time code (turn Chase off); therefore, rely only on the clock source and ignore any time code drift (this is the former RECHASE DISABLED mode).
RECHASE	If the time code drifts, recue RADAR® and reestablish positional chase; therefore, rely on both the clock source and the time code source (this is the former RECHASE ENABLED mode).
NUDGE	If the time code drifts, temporarily adjust (override) the clock speed to bring the time code back in sync; therefore, rely primarily on the time code source (this is the new mode).

To set **CHASE MODE** preference:

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN / SYNC MENU / TC SETTINGS / CHASE MODE** dialog and press the **ENTER** key.
2. At the **CHASE MODE:** dialog use the **DOWN** and **UP** arrow keys to select **LOCK-AND-DROP** or **RECHASE** or **NUDGE** and press the **ENTER** key.

Dual Disk Recording (Adrenaline® Plus Card Only)

With a 3-bay RADAR® system and Adrenaline® Plus you can now initialize your record drives for mirrored (dual disk) recording. In **DUAL DISK MODE**, audio is recorded simultaneously to both disks.

To enable **DUAL DISK MODE**:

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN / DISK MENU / DISK MODE / DUAL DISK** dialog and press the **ENTER** key.
2. At the **MASTER DISK: 0** prompt use the **UP** and **DOWN** arrow keys to select the disk ID of the master.
3. Use the **LEFT** and **RIGHT** arrow keys to select **SLAVE DISK: 0** then use the **UP** and **DOWN** arrow keys to select the disk ID of the slave then press the **ENTER** key.
4. At the **ARE DISKS EXACT COPIES?** prompt, select **NO** and press **ENTER**.
5. At the **INIT DRIVE X+Y** prompt, select **YES** and press **ENTER**.



Important Note: If you are using drives that are of different sizes, you must make the smaller drive the master.

Entering **DUAL DISK MODE** without initializing both hard drives is only possible in two scenarios:

- a) The two drives were previously initialized and used in **DUAL DISK** mode and have not been mounted individually since that time;
- b) One drive is an exact clone of the other (i.e. it was made using the **SECTOR-BY-SECTOR COPY** option in the **CLONE RADAR DISK** menu.

In both these cases, follow the same steps you used to enable **DUAL DISK MODE** in the directions above except at the **ARE DISKS EXACT COPIES?"** prompt, select **YES** and press **ENTER**.

When you have been recording in **DUAL DISK MODE**, and you **UNMOUNT DISKS** or **SHUTDOWN RADAR**, RADAR® will remember that fact. In this case, to re-enable **DUAL DISK MODE**:

1. The next time you mount disks, you will be prompted to **CONFIG DISKS AS** either **SINGLE** or **DUAL**.

2. Provided you have not changed disks, you may select **DUAL**
3. At the prompt: **ARE DISKS EXACT COPIES?** Select **YES**
4. At the prompt: **ARE YOU SURE?** Select **YES**



Warning: If you enter dual disk mode with a pair of drives that don't fit either of these criteria, the audio on the secondary disk will be damaged.



Important Note: Dual disk mode is for recording only. To edit, backup or flatten files, you must remount in single disk mode. If you later want to go back into dual disk mode, you will have to initialize or clone the drive so that it fits one of the criteria above.

Record 24 Tracks at 192kHz (Adrenaline® Plus Card Only)

With this mode enabled you can record 24 tracks at 192 kHz, however crossfades will not be processed until the transport is stopped. During this time the LCD will display the **+WORKING+** message.

RADAR® is able to process 12 tracks seamlessly (in real time) at 192 kHz. If you require real-time crossfades, disable the 24 track mode select the 12 tracks that you want to record.

To enable/disable **24 TRKS AT 192K**:

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN / DISK MENU / 24 TRKS AT 192K** dialog and press the **ENTER** key.
2. At the **ENABLE/DISABLE** select your choice and press the **ENTER** key.
3. If you selected **DISABLE** you will be prompted with **SELECT TRACKS**. Your options will be:
 - **1-12**
 - **13-24**
 - **SELECTED** (using the track arm keys, select the desired tracks)
4. After making your selection, press the **ENTER** key.

Max Jog Rate (Adrenaline® Plus card only)

Setting the **MAX JOG RATE** to maximum, allows jogging speeds up to 192 kHz.

To set the **MAX JOG RATE** to maximum.

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN / PREFERENCES MENU / MAX JOG RATE** dialog and press the **ENTER** key.
2. Select **MAXIMUM** and press the **ENTER** key.

Project Notes

The button beside the **HELP** button on the Session Controller has been assigned as the **PROJECT NOTES** button. You can type general notes about the project, as well as specific notes about each track and then save this information along with other project info (e.g., the locate list) as a printable text file.

To edit **PROJECT NOTES**:

1. Use the **MENU/PREV**, arrow keys and enter key to go to the **MAIN / PROJECT MENU / PROJECT NOTES** dialog and press the **ENTER** key or press the **PROJECT NOTES** key on the Session Controller.
2. At the **PROJECT NOTES:** prompt select **EDIT** and press the **ENTER** key.
3. At the **NOTES LINE:XX** prompt, select a line to write to using the **UP** and **DOWN** arrows.
4. Type your information to be stored in the general notes, and then use the **DOWN** arrow key to go to the next line. Press the **ENTER** key to exit **PROJECT NOTES**.
5. To enter track notes, press a **TRACK ARM** key **1** through **24** while in edit mode. At the **NOTES FOR TRK:XX** prompt, enter details about that specific track. Press **MENU/PREV** to return to the general notes, or **ENTER** to exit **PROJECT NOTES**.

To save the **PROJECT NOTES**:

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN / PROJECT MENU / PROJECT NOTES** dialog and press the **ENTER** key or press the **PROJECT NOTES** key on the Session Controller.
2. At the **PROJECT NOTES:** prompt select **SAVE** and press the **ENTER** key.
3. At the **SAVE AS:** prompt select **PDF** and press the **ENTER** key.
4. At the **SAVE TO:** prompt, use the **UP** and **DOWN** arrow keys to select the device you wish to save to, and press the **ENTER** key. This list will include **D:ARCHIVE** (RADAR® internal system drive partition), **NET: FOLDER** (network shares), **A:FLOPPY**, **B:DVD** (DVD-RAM, DVD-R or CD-R), **REV DISK**, and any Fat32 or HFS Standard formatted SCSI drives connected to the RADAR®.
5. At the **SELECT FOLDER:** prompt, select the destination folder using the **UP/DOWN** arrow keys and press the **ENTER** key.



Note: Project notes are also saved automatically on the audio drive. A project notes text file is automatically included (in the same folder as the wav files) whenever you flatten a project or do a mono export.

Native Broadcast Wave

RADAR® now has the ability to record natively in Broadcast Wave format. To begin recording in Broadcast Wave all you need to do is initialize the recording drive for **AUDIO:RADAR_BWAV**.

To initialize a disk for Broadcast Wave Recording:

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN / DIAGNOSTICS MENU / INIT DISK** dialog and press the **ENTER** key.
2. At the **INIT DISK:** prompt select the disk ID of the disk you want to initialize and press the **ENTER** key.
3. At the **INIT DISK X?** prompt, select **YES** the destination and press the **ENTER** key.
4. At the **INIT VOLUME FOR:** prompt, select **AUDIO:RADAR_BWAV** and press the **ENTER** key.
5. At the **INIT FOR WAVES:** prompt, select **YES** and press the **ENTER** key.
6. At the **ERASE OLD DATA:** prompt, select **YES** and press the **ENTER** key.



Important Note: Audio drives formatted for Broadcast Wave recording will not be compatible with RADAR® units running 3.32 versions of software and below. **You will lose audio** if you mount a RADAR BWAV drive in 3.32 or lower. As always, you can still initialize a drive as **AUDIO:IRADAR!** to record in the traditional RADAR® format and make portable to be used in pre 3.32 versions of software.

Single 32k: 0 Mode = Single Disk !RADAR! Legacy 32k Cluster Recording to Drive 0
 Single 64k: 0 Mode = Single Disk !RADAR! Legacy 64k Cluster Recording to Drive 0
 Single 96k: 0 Mode = Single Disk Native RADAR_BWAV 96k Cluster Recording to Drive 0
 Single 128k: 0 Mode = Single Disk !RADAR! Legacy 128k Cluster Recording to Drive 0
 Dual 128k: 0/1 Mode = Dual Disk !RADAR! Legacy 128k Cluster Recording to Drive 0 and 1
 Custom 128k Mode = Custom Disk !RADAR! Legacy 128k Cluster Recording to Custom Drive configuration
 Span 128k: All = Span All Disk !RADAR! Legacy 128k Cluster Span Recording to all Drives

Flatten Project

When you initialize the recording drive for **AUDIO:RADAR_BWAV**, the drive will now be compatible with any Mac or PC computer. If you want to access the audio on your Mac or PC you must first select the **FLATTEN PROJECT** menu item in the **FILE** menu. This function consolidates all of your punch ins into continuous files and puts them into a user folder that is easily accessed from your computer.

To flatten a project on a Broadcast Wave disk:

1. Use the **MENU/PREV**, arrow keys and **ENTER** key to go to the **MAIN / FILE MENU / FLATTEN PROJECT** dialog and press the **ENTER** key.
2. You will be prompted with **FILL SILENCE?**: Your options will be:
 - **NO** (EACH region will be one file)
 - **GAP** (each track will be one file with potentially different start times)
 - **ALL** (each track will be one file with the same start time)
 then press the **ENTER** key.
3. You will be prompted with **FLATTEN PROJS?**: Your options will be:
 - **SELECTED PROJS** (Select multiple projects using "+" key)
 - **CURRENT PROJ** (Selects current project)
 - **ALL** (Selects all projects)
 then press the **ENTER** key.
4. If **GAP** or **ALL** is selected and the regions contain gaps or different start times, RADAR will need additional drive space. Then you will be prompted **XXX MB REQUIRED PROCEED?**. Select **YES** and press the **ENTER** key.
5. You will be prompted **CANT CANCEL/UNDO PROCEED?** to indicate that is a destructive process. You will lose all undo levels of this project. Select **YES** and press the **ENTER** key.
6. You can now mount the drive on your Mac or PC and the consolidated files and project notes will be located in a new folder titled after the project name within the **USER** directory.
7. Copy this project folder over to your DAW recording drive for DAW manipulation.

! **Important Note:** After flattening a project if you delete this project, record punches or perform edits in this project within RADAR®, the corresponding folder in the **USER** directory will be automatically deleted.

! **Important Note:** On a PC or Mac, the flattened project's folder in the **USER** directory is locked. If this folder and/or files are deleted or changed, the corresponding RADAR® project will lose audio and have errors.

! **Important Note:** Only projects that don't contain edits (e.g., paste, erase, loop, etc), can be flattened. Use the export to **AUDIO DRIVE** function for projects with edits.

Export to / Import from the Audio Recording Drive

RADAR® now has the ability to import to and export from the **Audio Recording Drive**. If your project has edits, you can export to the **Audio**

Recording Drive for the same functionality as file flattening. You can now mount the drive on your Mac or PC and you will find your exported files in its own project folder in the **USER** directory.

Important Note: Do not export to a flattened project's folder in the **USER** directory. Within the **USER** directory you should create a new folder called **EXPORTS** and export to this folder.

New Back Panel for RADAR®

RADAR® products purchased after Aug 1, 2004 will have a different style back panel. See the following diagram for the changes to the back panel.

