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RADAR[®] 24 – 3.32 RELEASE NOTES

PRESS CANCEL TO RETURN TO RADARVIEW

Contact Support: (800) 776-1356

Release Date: November, 2004

Welcome to RADAR Version 3.30! Why not take a few moments to review these release notes to see what's new in Version 3.30. Use the up and down arrows on your keyboard to scroll through, or the cancel key to go to RADAR View.

RADAR 24 PDF viewer navigation keystrokes

*() Bracketed numbers indicate track arm keys

Action	KC24	Session Controller
Start Viewer	H	HELP or H
Return to RADAR View	REDO (to highlight iZ Icon) + PLAY or mouse click iZ Icon	Cancel (1)
Select different PDF file (in Viewer)	None (select from Radar View)	HELP
Start Viewer (focus on find Control)	None	Shift + HELP
Change Focus (Bookmarks -> Text -> Bookmarks)	REDO or Shift REDO	MENU PREV
Change items in Bookmarks	Up or Down Arrow	Up or Down Arrow
Change Views (Bookmarks ->Page Num -> None)	Alt B Alt L Alt H	Track Arm Buttons (3) (4) (5)
Expand Bookmark	REDO + Right Arrow	ENTER
Collapse Bookmark	REDO + Left Arrow	ENTER
Zoom in viewer	Alt +	HORZ/VERT ZOOM IN (18)
Zoom out viewer	Alt -	HORZ/VERT ZOOM OUT (19)
Forward 10 pages	None	Fast Forward (8)
Back 10 pages	None	Rewind (7)
Scroll page forward	Down Arrow	Down Arrow
Scroll page backward	Up Arrow	Up Arrow
Next Page	MARK OUT	Play (10)
Previous Page	MARK IN	Stop (11)
Last Page	None	Shift + Fast Forward (9)
First Page	None	Shift + Rewind (6)
Back in page History	Alt Left Arrow	Track Arm (12)
Forward in Page History	Alt Right Arrow	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 (20)
Focus on Goto Page Control	REDO	Numeric Keys (22)
Find – Search	Enter	Enter (21)
Find – Search Again	Alt F	Enter (21)
About Dialog	None	Track Arm (23)
Goto Page	Alt G	Enter
Dismiss dialogs or popup messages	PLAY (with focus)	Cancel



RADAR[®] 24 – 3.32 RELEASE NOTES

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Release Date: November, 2004

Hardware Requirements for Version 3.32

(These are the same as the requirements for version 3.30)

Processor

Version 3.32 requires a **minimum 800 MHz processor**. 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:

"INTEL[®] CELERON[™] CPU at 800MHZ".

This means you have an 800 MHz processor. If you see:

"Main Processor: Intel Celeron[™] 1 GHz (100x10.0)"

then you have a 1000 MHz processor which is more than adequate. If it says something like:

"INTEL[®] CELERON[™] CPU at 667MHZ"

then you have a slower processor, and need to upgrade before installing the 3.32 software.

Memory

Version 3.32 requires a **minimum of 384 MB of host memory (RAM)**. The amount of memory is displayed during bootup 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 VERSION, 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 3.32 software.

System Drive Ribbon Cable

If you will be burning CD-R or DVD-R disks using a multi drive (like the Panasonic SW-9571), 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.



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Installing the Version 3.32 software on your RADAR 24:

Note: Before you begin the upgrade, make sure you have a **backup of current sessions**. This is a standard precaution.

- If you are installing the downloadable version of the 3.32 software from the www.izcorp.com web site, you must have **Version 3.30 or later** installed before proceeding.
- If you are installing the full version of the 3.32 software, you can install if you currently have **Version 3.20 or later** installed.

Warning: Tape backups made in version 3.30 or 3.31 from an audio drive initialized for 64K clusters can only be restored in these two versions. If you have backed up to tape from a 64K drive using 3.30 or 3.31 software, there are two ways you can proceed:

1. If you restore your backups to an audio drive now, before upgrading to version 3.32, you will be able to make a new backup in version 3.32 that can later be restored in any version of RADAR software (except 3.30 and 3.31).
2. If you keep your tape backups as-is, and later want to restore them, then at that time you will need to revert to version 3.30 or 3.31, restore the backup, then reinstall the current version of software.

You do not have to select "UPGRADE SYSTEM" before installing the new software. You can also mount drives from old versions of RADAR and they will automatically be upgraded to 3.32. This will work for any RADAR 24 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 pre-3.30 software after installing 3.32, you must first either "**UPGRADE SYSTEM**" or "**MAKE PORTABLE**". You must also do this with any drive that you want to load into any RADAR 24 running pre-3.30 software.

RADAR24 install software can now be transferred via CD, floppy, 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.



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Install from CD

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 (e.g. Panasonic SW-9571) installed in your RADAR 24.
- Radar[®] Software Install CD (obtained from your local dealer, direct from iZ Technology or via download from www.izcorp.com using your own computer, CD burner and software)

CD Install Procedure

1. If you have previously installed the R24CDNET software loader upgrade, load the **v3.32 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 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 the following message below it:

```
Install RADAR 24
v3. 32? ENTR/CNCL
```

If you do not want to proceed with the upgrade, press the Cancel key. If you press the Enter key, RADAR 24 will begin reading the software from the CD, and the message will change to:

```
Installing RADAR
v3. 32 Disk 1
```

When RADAR is finished installing from the disk, it will start up in the new version and all projects will automatically be upgraded to version 3.32 format if necessary. This operation may take a few seconds per project.

3. Now, power off RADAR and reboot to complete the setup of new drivers.



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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_v3.32.0_net.zip**" (obtained from a Radar[®] software shipping CD or via the download section of our website 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 following message will appear on the screen below the iZ logo:

**Remove floppy
Insert CD, ENTER**

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_v3.32.0_net.zip**" via FTP to the "/boot/Install" directory on RADAR.

NOTE: 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 just 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.



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4. When RADAR has finished rebooting, the iZ logo will appear on the screen with the following message below it:

```
Install RADAR 24
v3.32? ENTR/CNCL
```

If you do not want to proceed with the upgrade, press the Cancel key. If you press the Enter key, RADAR 24 will begin transferring the software, and the message will change to:

```
Installing RADAR
v3.32 Disk 1
```

When RADAR is finished installing, it will start up in the new version and all projects will automatically be upgraded to version 3.32 format if necessary. This operation may take a few seconds per project.

5. Now, power off RADAR and reboot to complete the setup of new drivers.

Install from Floppy

1. To install the new software from floppy disks, **Insert v3.32 floppy disk #1** and reboot RADAR.
2. When RADAR has finished rebooting, the iZ logo will appear on the screen with the following message below it:

```
Install RADAR 24
v3.32? ENTR/CNCL
```

If you do not want to proceed with the upgrade, press the Cancel key. If you press the Enter key, RADAR 24 will begin reading the software from the floppy disk, and the message will change to:

```
Installing RADAR
v3.32 Disk 1
```

When RADAR 24 is finished installing from the disk, it will ask for Disk 2. Continue inserting disks as prompted until the installation is complete. RADAR will then start up in the new version and all projects will automatically be upgraded to version 3.32 format if necessary. This operation may take a few seconds per project.

3. Now, power off RADAR 24 and reboot to complete the setup of new drivers.



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What's New in Version 3.32?

Record On Chase

Now, if you press "Record" while the chase light is blinking, RADAR will automatically go into record when chase is established and exit record when chase lock is lost. You can also set the new "RECORD ON CHASE" setting in the RECORD PREFS menu to "CONTINUOUS" if you want RADAR go back into record whenever chase is reestablished.

Project Per Take

When you enable the new PROJECT PER TAKE option in the RECORD PREFS menu, RADAR will automatically create a new project whenever you punch out of record. This leaves you ready to record the next take in a new project.

New Project Number Preference

The PROJ PREFS menu has a NEW PROJ NUMBER option that 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.

Added "NUDGE" to Chase Mode Settings

The RECHASE MODE option in the TC SETTINGS section of the SYNC MENU 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)



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Bugs Fixed in Version 3.32

Incompatible tape backups

In versions 3.30 and 3.31 it was not possible to successfully restore some tape backups (specifically, tape backups made in version 3.26 or earlier from an audio drive initialized for 64K clusters, or a tape backup made in any version from an audio drive initialized for 32K clusters). Tape backups made in version 3.30 or 3.31 from an audio drive initialized for 64K clusters can only be restored in these two versions.

Open Session / Damsel support

Compatibility with Open Session / Damsel was lost in version 3.30 and 3.31. With version 3.32, your disks will be compatible again provided you have enabled DAMSEL MODE in the PREFERENCES MENU before making portable.

Lock sync reference of RADAR Link slave

RADAR Link slaves could be put out of sync with the master by changing their sync reference to something other than RADAR Link. Now you cannot change the sync reference of RADAR Link slaves, even in solo mode. They are always syncing to "RADAR Link".

RADAR Link slave out of sync with master when soloing

When changing projects on a RADAR Link slave in solo mode (for example, to do a backup), the slave would sometimes lose sync with the RADAR Link master. Even reentering link mode did not reestablish proper RADAR Link sync.

RADAR Link slave doesn't "make portable"

When unmounting disks and selecting "make portable", both master and slave unmount, but only the master disk was made portable.

RADAR Link system is sluggish after sitting idle

If the RADAR Link slave lost sync with the master (see the previous two bugs), the clocks of the master and slave would gradually drift apart. After sitting idle for a long period of time, they would appear to become sluggish.

Projects above 255 not named on RADAR Link slave

When naming a project in RADAR Link mode, the name would be set on the master but not the slave if the project number was greater than 255.



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Spill-over backup to DVD-RAM quits unless disks are pre-formatted

When a backup disk filled up, inserting a blank unformatted DVD-RAM as the second or subsequent disk caused RADAR to cancel the backup. Now it will automatically format the blank disk and proceed with the backup.

Restore from DVD-RAM quits if unformatted disk inserted

When a restore was prompting to insert the next disk, it would cancel the restore if an unformatted disk was inserted. It will now eject the disk and wait for the proper disk

New pre-formatted DVD-RAM disk appears as both B: and E:

When a DVD-RAM disk pre-formatted in "Universal Disk Format" was loaded into the combo drive, it appeared as both "B:DVD UDF disk" and "E:MX120". Now it will appear as drive B: only

Can't mount after booting with DVD-RAM inserted in SCSI drive

Older RADAR units with a SCSI DVD drive (not the combo drive) could not be successfully booted up with a DVD-RAM disk in the drive. The LCD would keep flashing "+ MOUNTING +" forever.

Ejecting disk from combo drive causes export to fail

If the drawer of the combo was opened while an export to D:Archive was in progress, the export would be cancelled.

Ejecting disk from combo drive causes backup to be redirected

If the drawer of the combo was opened while a backup to D:Archive was in progress, the next set in the backup would be redirected to the system drive.

Make DVD/CD Image doesn't check for space in D:Archive

When making a disk image, RADAR was checking the system drive (drive C:) for space even if it was actually going to make the image in the Archive partition (drive D:). This could result in incorrect error messages, or incomplete disk images.

One-step export to DVD/CD doesn't check for space in D:Archive

When exporting to a CD-R or DVD-R, RADAR was not checking for enough space for all the temporary files needed to create the export and the ISO image. This could result in incomplete disk images.



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Attempting backup to DVD-R gets RADAR stuck

When attempting to backup to “B:DVD blank disk”, RADAR would get stuck alternating between “WRONG MEDIA TYPE” and “CAN’T UNLOAD DISK”. Now it will eject the DVD-R and ask for a DVD-RAM disk.

Import takes too long

File import was slow making waves, particularly when importing to a large audio drive.

Record bars stay red

In certain circumstances (e.g. pressing stop when syncing to SMPTE in RADAR Link mode), the waveform background would not immediately change from red to blue.

Digital 2-channel routing should default to L=1, R=2

Previously, after creating a new project, digital 2-channel routing was off by default.

Invalid digital 2-channel routing causes audio drop-outs

Setting the digital in or out channels to tracks 25-49 in RADAR Link mode sometimes caused audio drop-outs on the master. Now you cannot select values greater than 24. Use RADAR Link solo mode to set routing on the RADAR Link slave.

Tracks 25-49 not valid for export

Now you cannot select tracks greater than 24 when exporting. Use RADAR Link solo mode to export from the RADAR Link slave.

Some hard drives don’t spin up during mount

Drives were not spinning up under software control, so if the auto spin-up jumper was inadvertently removed from an audio drive, it would fail to mount.

Boot-up makes 4 loud output clicks during mounting

RADAR is now quiet during the initial mount.

Crash when resetting to Factory Defaults while mounted

Now you must unmount disks before resetting to factory defaults.



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Browser freezes trying to shift-copy with only one file

Using the shift-copy feature of the file browser (to copy all files in the selected directory) was causing RADAR to freeze when there was only one file to copy.

Debug indicates error if SCSI DVD-RAM drive is empty

The error message "Mount: Error waiting for device" will no longer appear when the drive is simply empty..



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Menu Structure in Version 3.32

Here is the RADAR menu structure for Version 3.32. Additions since version 3.30 are highlighted in **RED**. Items that have changed (e.g. renamed or moved to a new location) are highlighted in **BLUE**.

SYSTEM MENU

- SYSTEM VERSION
- OPERATING SYSTEM
- SYSTEM DATE
- INSTALLED RAM
- X-CHIP
- S-CHIP
- F-CHIP
- SET TIME & DATE
- UPGRADE SYSTEM
- 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+ present)
- SEAMLESS 64K
- CLONE RADAR DISK

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



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9-PIN CHASE MODE (renamed from 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

I/O MENU

I/O ROUTING

INPUT ROUTING
OUTPUT ROUTING
RESET ROUTING
DIG 2-CH ROUTING
DIG IN TRACKS
8-BUS MODE

AUDIO I/O LEVELS

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

FILE MENU

BACKUP
RESTORE
EXPORT
IMPORT
FILE MANAGEMENT
MAKE DVDCD IMAGE
BURN DATA CD/DVD
BURN AUDIO CD
FINALIZE CD
DEL IMG FILE
MACROS
MIX AUTOMATION
FILE PREFS



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SHOW SIZE
EXPORT FORMAT
EXPORT SILENCE
REFORMAT QUALITY
WRITE VERIFY

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
 DIG IN TRACKS
 8-BUS MODE
PROJ 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

EDIT MENU

UNDO EDIT
REDO EDIT
MODIFY EDIT
CUT
COPY
PASTE
MOVE
ERASE
LOOP



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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
PEAK HOLD TIME
CLIP HOLD TIME
SYNC MRK TRIGGER
SAVE STATE DELAY
SCRN-SAVER MENU
SAVER DELAY
IMAGE EFFECTS
AUTO RECLAIM
TRK ARM GROUPING
IGNORE AES FLAGS
UNMOUNT PORTABLE
DAMSEL MODE
RADARVIEW RES
RECORD PREFS

(if "Shift-# CLAP") (for Soundmaster)

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

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



RADAR[®] 24 – 3.32 RELEASE NOTES

PRESS CANCEL TO RETURN TO RADARVIEW

Contact Support: (800) 776-1356

Release Date: November, 2004

NETWORK PREFS

INTERFACE PREFS

HOST NAME

DHCP SERVER

LOCAL IP ADDRESS (if DHCP disabled)

SUBNET MASK (if DHCP disabled)

GATEWAY (if DHCP disabled)

DNS DOMAIN NAME (if DHCP disabled)

PRIMARY DNS (if DHCP disabled)

SECONDARY DNS (if DHCP disabled)

FTP SERVER

FTP LOGIN NAME (if FTP enabled)

FTP PASSWORD (if FTP enabled)

SERVER PREFS

CIFS SERVER IP

SERVER NAME

SERVER SHARE

CLIENT WORKGROUP

NETWORK CONTROL

DIAGNOSTICS MENU

SCAN SCSI BUS

INIT DISK

CHECK DISK

REPAIR DISK

CHECK PROJECT

REALTIME ERRORS

VERIFY DISKS

CONFIGURE DEBUG

SAVE DEBUG

RESTART DESKTOP

FACTORY SETTINGS

HELP MENU

SHUTDOWN RADAR