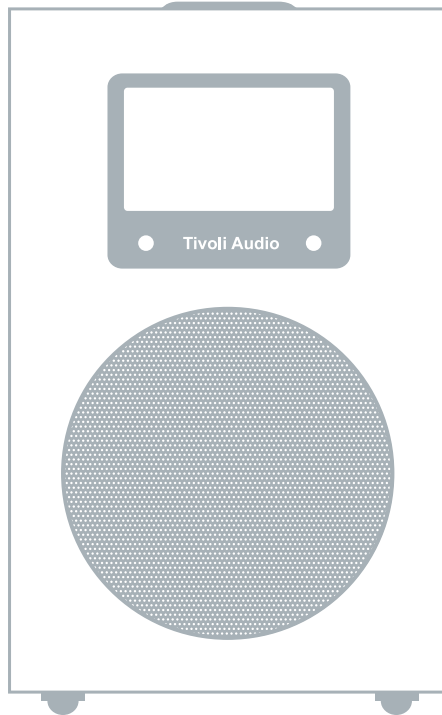


OWNER'S MANUAL

Networks™+

Internet Table Radio with DAB and FM



Tivoli Audio®

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This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water. For example, do not use near a bathtub, in a wet basement, near a swimming pool, and the like. **WARNING!** Do not expose this product to rain or moisture.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.



14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This Class B digital device complies with the Canadian ICES-003.
16. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product to lightning and power-line surges.
17. Operate this product only from the type of power source indicated on the bottom panel. For products using an external power supply, use an exact replacement if lost or damaged. For products operating from battery power, refer to the user manual.
18. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power supply cord or plug is damaged.
 - b. If liquid has been spilled or objects have fallen into the product.
 - c. If the product has been exposed to water or rain.
 - d. If the product does not operate normally by following the operating instructions.
 - e. If the product has been dropped or damaged in any way.
 - f. When the product exhibits a distinctive change in performance.
19. If the LCD becomes cracked and damaged, do not touch the liquid.
20. Keep this product a safe distance away from naked flame, such as a lit candle.
21. Do not expose this product to splashing or dripping. Objects containing liquid, such as vases or drinking glasses, should not be placed on top of this product.
22. The recommended operating temperature range is 41° F to 104° F (5° C to 40° C).



This product can be recycled. Products bearing this symbol must NOT be thrown away with normal household waste. At the end of the product's life, take it to a collection point designated for recycling of electrical and electronic devices. Find out more about return and collection points through your local authority.

The European Waste Electrical and Electronic Equipment (WEEE) Directive was implemented to dramatically reduce the amount of waste going to landfills, thereby reducing the environmental impact on the planet and on human health. Please act responsibly by recycling used products. If this product is still useable, consider giving it away or selling it.

NetWorks Instructions

Congratulations on your purchase of Tivoli Audio's NetWorks+ Internet/DAB/FM table radio. We believe the NetWorks+ is one of the finest Internet table radios on the market. Its sound quality, ease of use, unique features, and distinctive design are unmatched.

We've taken the liberty of saving some diverse Internet radio stations to the five station presets. After you connect your NetWorks+ to your network, please explore each preset and enjoy listening as you read through this owner's manual.

In order to take full advantage of what your new radio is capable of, please take a moment to read this owner's manual and the safety instructions. If you have any questions, please do not hesitate to contact your dealer or distributor.

Please save the carton and original packing should you ever need to ship your radio, as shipping damage is not covered by the factory warranty.

On behalf of all of us, thank you for choosing Tivoli Audio and enjoy your new NetWorks+ radio.

About Tivoli Audio

Tivoli Audio was founded by Tom DeVesto with the mission of bringing simple to use, elegantly designed, high quality audio products to consumers. As CEO and head of research and development at his former company, Cambridge SoundWorks, Tom was responsible for the development of many of the best selling home entertainment and multi-media products on the market. He also held senior management positions in product development at both Advent and Kloss Video.

*Cambridge SoundWorks is a registered trademark of Creative Labs, Singapore.

Packed with your NetWorks+ you should find one each:

- 2.74 meter (9') power cord
- Remote control (battery installed)
- 0.46 meter (1.5') USB cable

Before you use your NetWorks+, you'll need:

- A broadband Internet connection.
- A wireless (WiFi) network connected to your broadband Internet, preferably via a router;
- Or an Ethernet cable (not included) for the Ethernet connection if WiFi is unavailable

Getting Started:

1. Be sure your wireless network is powered on and connected to your broadband Internet.
2. Connect the included power cord to the power input on the bottom of NetWorks+ and plug the other end of the cord into a wall outlet.
3. Press the power button on the remote control or the center of the top control wheel to turn the NetWorks+ on.
4. Select the WLAN country region nearest you even if WiFi won't be used.

5. The NetWorks+ will automatically scan for all networks. After the scan is finished the display will show all of the ESSIDs (names) of the wireless networks found in addition to offering options to rescan, select a wired connection (Ethernet)*, or set up the wireless configuration manually. Use the Up and Down buttons on the remote control to highlight the network you want and then press Select. The display will show "Connecting". After connecting you may begin using your NetWorks+.
6. If you are prompted to enter a password, your network uses a security encryption system. You must enter the correct code to allow NetWorks+ to communicate with your network. The codes are case sensitive so be sure to enter the code exactly as it is configured in your wireless network. Use the ▲▼ buttons to change character pages. Use the ◀▶ buttons to highlight characters and the Select button to enter the character. After you've selected all the characters for your password, press the '↓' character to enter your password.
 - the '<' symbol = back space if you make an error
 - the '↓' symbol = enter completed password
 - the 'C' symbol = cancel process and return to previous menuWhen selecting a blank space it will be represented by a blank space followed by an underscore indicating the position of the next character.

NetWorks+ will now connect to your network.

If the NetWorks+ fails to connect with the first attempt and you are sure you entered your password correctly, press the enter symbol to repeat the connection rather than re-enter your password all over again.

If your network uses an encryption system, Tivoli Audio strongly advises against turning it off. You should maintain proper security of your network. If several networks are available, you should connect only to the network you have an agreement to use.

If you experience difficulty connecting to your network, consult our website (<http://networks.tivoliaudio.com>) or contact your dealer/distributor for further assistance.

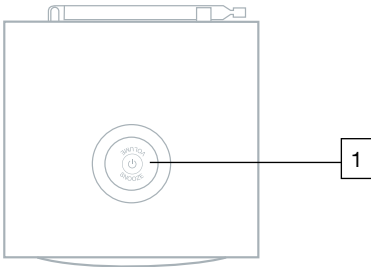
Should you ever need to manually initiate a network scan you can do so by entering the "IR Setup" menu and selecting "Scan networks". The "IR Setup" menu will also allow you to view and edit current settings.

Wired/Wireless connection: When changing from wireless to wired, after connecting the Ethernet cable to the input on the bottom of your NetWorks radio, enter the "IR Setup" in the menu, access the "Manual Settings" option and select Wired. The wireless connection is now disabled and no signal strength will be shown on the display. When changing from wired to wireless, rather than select "wireless", select Scan for networks" in the "IR Setup" menu and pick up from Step #5 under "Getting Started".

WiFi Signal Reception: The WiFi antenna is incorporated inside the NetWorks+. Locate the NetWorks+ for best WiFi signal reception. In Internet radio and music player modes the display will show WiFi signal reception in the lower right corner. This will not be shown when using an Ethernet cable. Note WiFi networks can sometimes impart very low level random noise into the audio signal. This is not a fault of the NetWorks+ radio.

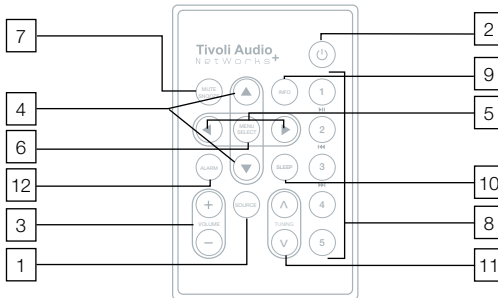
*If you prefer to connect using a direct Ethernet cable, connect the cable (not included) to the Ethernet input located on the bottom of NetWorks+

Guide to Features (Top):



- 1. POWER/VOLUME/SNOOZE/MUTE:** Briefly press the center of the control wheel to power NetWorks+ on. Press and hold the center of the control wheel to power NetWorks+ off. Rotate the wheel clockwise to increase the volume and counterclockwise to decrease the volume. Press the center of the wheel to activate Snooze after the alarm activates. The Snooze time is fixed at 7 minutes. Press the center of the wheel to mute the audio. The display will show an icon of a speaker with a line through it. Press again to restore audio output or adjust the volume.

Guide to Features (Remote Control):

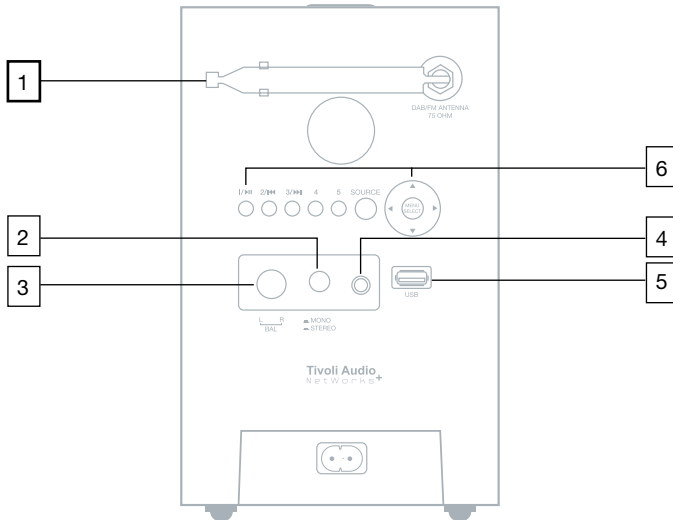


- 1. SOURCE:** Press to view the master source list (Internet radio, DAB, Music Player, Auxiliary, FM) and use the Up/Down arrow buttons and the Select button to select the desired source. When the NetWork+ is set to Internet radio, DAB, or FM, the display will show the last station tuned.
- 2. POWER:** Press to power the NetWorks+ on or off. The radio will power on to the last source used.
- 3. VOLUME +/-:** Press the + button to raise the volume level or the – button to lower the volume level. If the audio ever sounds distorted, lower the volume level to avoid damaging the speaker. Adjusting the volume while the NetWorks+ is muted will cancel the muting.
- 4. ▲▼:** Press these buttons briefly to move up or down through the menu.
- 5. ◀▶:** Press to navigate through pages while in the main menu. Also used for highlighting characters when entering an Internet station's name or entering your password (if required by your network).
- 6. SELECT/MENU:** Press briefly to select the item highlighted in the menu with an arrow, or

press and hold to enter the main menu. When tuned to an Internet station you wish to save to Favorites, press briefly. A message will ask you to confirm if you wish to save the station to Favorites. For more, see the section marked "Favorites".

7. **MUTE/SNOOZE:** Press to mute the audio (an icon of a speaker with a line through it will show on the display) when the unit is playing and press again to restore sound or adjust the volume. Press to mute the alarm for 7 minutes after the alarm sounds. The alarm will re-sound after 7 minutes. The Snooze time is not adjustable.
8. **PRESETS #1-5/music player controls:** Your NetWorks+ has five Internet radio stations already saved to the presets for you to enjoy. Should you wish to replace them with your own selections, press and hold a preset button to save the currently tuned station to a preset. "Preset Saved" will briefly show on the display. Once stored, press the preset button briefly to recall the station associated with that preset. There are 5 presets for Internet radio, 5 for DAB, and 5 for the FM band. If no station has been stored and the preset button is pressed, the display will show "Preset Empty". Presets cannot be stored in Music Player mode. This will not work when the Source menu is displayed.
9. **INFO:** In Internet radio, DAB, Music Player and FM modes, press to cycle through various categories of information.
10. **SLEEP:** Press to start the 20 minute sleep timer. The NetWorks+ will display the remaining sleep time and automatically power off after 20 minutes. Press again to cancel the sleep timer. The amount of sleep time is not adjustable.
11. **TUNING +/-:** In FM mode only, use these buttons to move up or down through the FM frequencies. Press for 1.5 seconds and release to seek up or down to the next strongest FM station. Press and hold to move quickly up or down through the frequencies. When tuning FM stations from the NetWorks+ rear panel, use the Up/Down controls.
12. **ALARM:** Press to access the alarm menu. Select alarm 1 or 2. Use the ▲▼ buttons to adjust the hour and press Select. Use the ▲▼ buttons to adjust the minutes and press Select. Now select AM or PM. Next, use the ▲▼ buttons and Select button to choose the source you wish to wake to. Then set the alarm's volume level. Lastly, set the alarm on or off. For more see "How To Use the Alarm and Sleep Timer" on page 13.

Guide to Features (Rear panel):



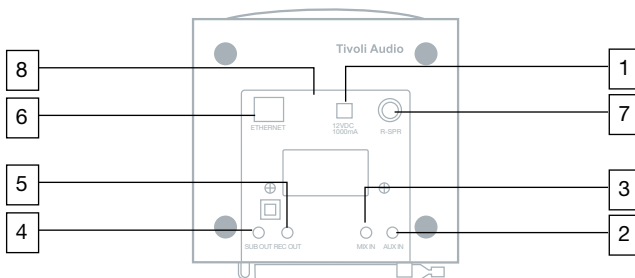
- 1. DAB/FM ANTENNA:** Extend and rotate the telescoping antenna for best reception. In strong FM signal locations, reducing the antenna's length usually provides better reception. Keep the antenna retracted in its locked position when not being used to avoid damage.
WARNING: The DAB/FM antenna is not designed to be removed. Removal of this antenna will void your warranty.
- 2. MONO/STEREO:** Press in for Stereo only when the optional NetWorks Speaker is connected. The display will show an "ST" for Stereo. In FM mode, when the optional NetWorks Speaker is connected, placing the button in the Mono position during weak FM reception may help to reduce noise. The display will show an "M" when the Mono/Stereo button is in the Mono position. Note it is possible for the source material (such as an internet station) to be broadcast in mono even if the Stereo position is selected.
- 3. BALANCE:** Leave this control in the "Left" position unless the optional NetWorksSpeaker is connected. When the optional NetWorksSpeaker is connected, rotate the knob to the left or right to adjust the sound from each speaker, or leave in the center detent position for equal balance.
- 4. HEADPHONE:** Connect a set of headphones (not included) to this 3.5mm female mini stereo variable output. The headphone volume is controlled by the wheel on the top of NetWorks+ and the volume buttons on the remote. Connected headphones will mute the main speaker. Avoid listening to headphones at high volume levels to prevent hearing damage.
- 5. USB:** Connect a digital storage device (such as a memory stick) to this USB Type A 2.0 input, or connect the female end of the included USB cable to this input and the male end to your digital storage device. The display will briefly show "USB device found". Set the source to Music Player mode and select USB. The display will show "File Scan" as it scans the device for media files. When connecting an iPod, be sure the iPod's music is in MP3 format so the

music files will be recognized. The NetWorks+ cannot play back protected music files that use Apple's proprietary coding. Songs or albums purchased through iTunes use this format. As an alternative you can connect your iPod to the auxiliary input via the iPod's headphone output

Use the music player controls (Presets 1, 2, & 3) to control music playback. All of the tracks for an artist or album will playback until the end of that folder is reached. Note some MP3 players use dedicated software to playback music and therefore won't be recognized. In such cases the LCD will briefly show "USB unsupported". To play these MP3 players, connect the player's headphone output to the Networks+ auxiliary input.

6. **PRESETS #1-5, SOURCE, MENU/SELECT, UP/DOWN/FORWARD/BACK:**
See "Guide to Features (Remote Control)".

Guide to features (Bottom):



- 12VDC/1A:** Connect an optional external power supply to this input, or use an optional 1A fused, 12VDC adaptor for operation in a boat or camper. The connector must be 5.5mm/2.1mm center positive. It is normal for the external power supply to become warm during use. This input should never be used simultaneously with the power cord input.
- AUX IN:** To hear audio from another device such as a CD or MP3 player, connect said device's audio output to this 3.5mm female stereo input. Note you may need to adjust the volume level differently for an auxiliary device than the level used for radio listening.
- MIX IN:** Connect the audio output from a computer to this 3.5mm female stereo input. The computer's audio will be mixed in with the audio from whatever mode the NetWorks+ is in. The volume level of the computer's audio is controlled by the computer.
- SUB OUT:** Connect one end of the audio cable included with Tivoli Audio's Model Subwoofer (not included) to this 3.5mm female output.
- REC OUT:** To record from the NetWorks+, connect the inputs from a recording device (such as a cassette deck) to this 3.5mm female stereo fixed output.
- ETHERNET:** If a WiFi signal is unavailable or is unreliable, securely connect a standard Ethernet cable (not included) to this input.
- R-SPR:** Connect the male RCA from the optional NetWorks Speaker to this female RCA output, adjust the Balance control to the center detent position, and place the Mono/Stereo

switch in the Stereo position. Bend the NetWorks Speaker connecting cable so the NetWorks+ radio sits flush.

8. **POWER CORD INPUT:** Insert the correct end of the included power cord securely into this input and connect the other end of the cord into an electrical outlet. Damage as a result of using the NetWorks+ with an incorrect voltage is not covered by the factory warranty.

Helpful hint: When connecting mini cables (not included) to the bottom inputs and outputs, bend the cables so the NetWorks+ sits flush.

Internet Radio mode - Tuning Stations:

1. In Internet radio mode, press and hold the Select button to enter the main menu.
2. Select "Station List".
3. Select "Stations".
4. Next, choose Location, Genre, Favorites, or Station Search and press the Select button. Location allows you to choose from a list of countries. Genre allows you to choose from a list of formats. For a detailed description of Favorites and Station Search, see the section marked "Menu options and specific features" on the next page.

A Word About Internet Stations:

Adding Internet stations:

If there is an Internet station you do not see listed in the Stations menu, you can send Tivoli Audio an email (in English) requesting the station be added: addstation@tivolioaudio.com, or visit our dedicated NetWorks+ site at: <http://networks.tivolioaudio.com>.

In your email you should include all information necessary to identify the station (station name, location, URL, etc). It's also possible to add radio stations and view other information via Tivoli Audio's dedicated site: <http://networks.tivolioaudio.com>.

Unavailable, Please try later:

Although this message is usually a result of a station's URL not responding, exceeding the maximum number of listeners, or a slow connection between the server and the NetWorks+ radio, there might be other reasons. Some stations don't broadcast 24 hours a day or 7 days a week, and some are not always on-line. Some stations will also change their audio formats (codecs) and/or streaming protocols, which can result in the stations no longer showing in the Stations list even though their websites can still be accessed on a computer. Still other stations might change their links. If you have a computer, try acquiring the Internet station using your PC to see if the results are the same. If you suspect the station is no longer broadcasting or its link is outdated, send Tivoli Audio an email (in English) so we can upgrade the station data: addstation@tivolioaudio.com, or use the site: <http://networks.tivolioaudio.com>.

This message might also be displayed when streaming a music file from a computer if the file is corrupted.

Menu options and specific features:

Note: A checkmark symbol ✓ is used to indicate the current setting.

- 1. SuperBuffer™ (found in the main menu in Internet radio mode only):** Located in the main menu in Internet radio mode, this unique feature developed by Tivoli Audio increases the buffer time by four to reduce the frequency of drop-outs. If you experience an Internet radio station that is dropping out frequently, select “on” to engage this feature. The display will show “x4” when SuperBuffer is on. Loading of stations might take slightly longer whenever SuperBuffer is on. Drop-outs can be caused by different conditions. SuperBuffer cannot eliminate drop-outs completely.
- 2. Tivoli EQ (found in main menu):** Use the Up/Down arrow and Select buttons to adjust the Bass and Treble, and the Up/Down and Select buttons to turn Loudness On or Off. Turning Loudness on when listening at low volume levels is recommended since it boosts high and low frequencies resulting in a more natural sound. Use the Up/Down and Select buttons to activate any one of the pre-set EQ settings. Selecting a preset EQ will over-ride any adjustment made to the Bass and Treble settings but Loudness will be unaffected. The “Flat” EQ restores the audio settings of the NetWorks+ to factory defaults, meaning Loudness will be Off and Bass and Treble will be re-set to zero.
In the EQ menu page, the numbers to the right hand side indicate the bass and treble settings.
- 3. Favorites (found in “Stations” under “Station List” in Internet radio mode only):**
In addition to storing five presets for Internet radio, you can save virtually an unlimited number of additional Internet stations in a list called “Favorites”:
While listening to an Internet station, press the Select button briefly. A message will appear asking you to confirm you wish to save the station to Favorites. If “Yes” is chosen, the station will be stored and can be tuned by accessing “Favorites” under “Stations”. A message will remind you if you have already saved the station to Favorites.

To access stored Favorite stations select “Favorites” under “Stations”. Use the Up and Down buttons to highlight the desired station and press Select. A message will ask if you wish to Play or Delete this station.
- 4. My Added Stations (found in “Stations” under “Station List” in Internet radio mode only):**
Located under the “Stations” category, this will list any Internet stations you request Tivoli Audio to add to your radio only.
- 5. Station Search (found in “Stations” under “Station List” in Internet radio mode only):**
Use the Up/Down arrow buttons to change character pages. Use the left and right arrows to highlight characters and the Select button to enter the character.
the ‘<’ symbol = back space if you make an error
the ‘␣’ symbol = enter completed password
the ‘C’ symbol = cancel process and return to previous menu
When selecting a blank space it will be represented by a blank space followed by an underscore indicating the position of the next character.
- 6. Podcasts (found under “Station List” in Internet radio mode only):** Podcasts are essentially recordings of a wide variety of media, especially radio programs and audio from TV broadcasts, though there are certainly many more categories. They are a convenient way of listening to past programs you may have missed or wish to listen to again.
- 7. Clock, Date, and DST (found under “Settings”):** To set the time, select “Clock” under the

“Settings” menu using the ▲▼ buttons and the Select button to set the hour. Repeat to set the minutes and press Select to save. Within this same “Settings” menu are additional options to set the date, clock format (time shown as digits or as a clock face in Off mode), 12/24 hour mode, and Daylight Savings Time (adjusted automatically when DST occurs).

8. **Language (found under “Settings”):** Use the ▲▼ buttons and Select button to choose your language.
9. **Factory Re-Set (found under “Settings”):** Use the ▲▼ buttons and the Select button to initiate a factory re-set. If you choose Yes, a message will ask you to confirm this choice. A factory re-set will erase all presets, language selection, Favorites, date, clock, alarm, WiFi security password (if applicable), EQ settings, and any other customized settings.
10. **Info (found under “Settings”):** This shows information about your NetWorks+ radio which you might be asked to provide should you phone or email with questions about software or repair. This differs from the Info button on the remote control.
11. **Software Upgrade (found in the main menu under “IR Setup” in Internet radio mode only):** A message will appear automatically in Internet radio mode advising you when new firmware is available. Select Yes to begin the download, or No (or the left arrow/back button) to download at another time. The upgrade process typically takes a few minutes to complete and a progress bar will show the status of the upgrade. There will be no audio output during this process. The Networks+ will automatically re-boot after a successful upgrade. To check to see if an upgrade is available, access the “IR Setup” in the main menu in Internet radio mode and select “Software Upgrade”. It is recommended you check for a software upgrade after completing initial set-up of your NetWorks+ to be sure its software is fully up-to-date. Several different upgrades might be necessary.
WARNING: It is vital the NetWorks+ not be powered off or unplugged during the software upgrade process or else the radio will require servicing to restore operation

How to use the Alarm and Sleep timer and other functions specific to the remote control:

The remote control duplicates the controls found on the rear of NetWorks+ but adds these additional dedicated commands for your convenience:

1. **Alarm:** Using the ▲▼ buttons and Select button, select Alarm 1 or 2. Set the alarm wake time hour and press select to move to the minutes. Press select when done. Alarm bell icons with a “1” and “2” next to them will be shown on the display when the respective alarms are set to wake.

After the alarm time is set, set the source and volume level you wish to wake to. If you wish to wake to an Internet or FM station, be sure the station is broadcasting during the time the alarm is set to activate. Finally, set the alarm to wake or keep it off.

During a power outage, the alarm time(s) will be maintained by an integrated back-up. However, if power is lost during the time the alarm is set to activate, the alarm will wake using a tone, regardless of what alarm source was selected.

If waking to an Internet radio station that is unavailable or takes too long to load, the alarm will default to the tone as a back-up.

When the alarm sounds in any source but the tone you have three options: (1) press the Snooze button to mute the alarm for 7 minutes; (2) press the power button to turn the

NetWorks+ off and keep the alarm set for the next day, or; (3) keep the NetWorks+ playing and go into the menu and turn the alarm off.

2. **Sleep:** Press once to activate the 20 minute Sleep timer. The display will show a timer countdown. Press Sleep again to cancel. The Sleep time is not adjustable.
3. **Info:** Press to cycle through various kinds of information available for Internet stations, FM RDS, and in Music Player mode.

In **Internet radio mode**, the Info button will cycle through current status (“Playing” or “Station unavailable”), audio format, station description, genre, and station location. Each time a station is tuned the Info category will default to current playing status.

In **Music Player mode**, the Info button will cycle through artist, song, album, format, and track time.

In **FM mode**, if RDS is available, the Info button will cycle through radio text, station frequency, and program type. If any category of information is not provided by the station the info category will be blank.

4. **Tuning +/-:** Press briefly to increase or decrease the FM frequency in FM mode. Press and hold the ▲▼ buttons to rapidly scan through the FM stations. To Auto Search in FM, press for over 1.5 seconds and release the Up or Down button and the tuner will automatically stop on the next strongly-received FM station. The display will show “Searching” during Auto Search.

The sensor for the remote control is positioned in the lower left corner of the front panel. When using the remote, aim it in this general direction.

When replacing the remote's battery, use a brand name 3V lithium button cell, model number CR2025. Install the battery so the positive side is facing you.

Music Player mode Set up:

To access music files from your computer connected to the same network as the NetWorks+ and play them through the radio, you must configure the NetWorks+ to one of two methods available: Shared Media (UPnP: Universal Plug and Play) or Shared Folders (CIFS), with the former being the easier of the two methods:

1. Shared Media (UPnP):

Media sharing uses Windows Media Player (WMP) 11 and above as media server. WMP 11 can be downloaded from Microsoft's website (www.microsoft.com). The Share Media mode does not require any setting in the NetWorks+, but your PC needs to be configured to allow the radio access to the media. You will only have to do it once following these three simple steps:

- 1) Your PC must be connected to the same network (wired or wireless) as the NetWorks+.
- 2) Ensure the NetWorks+ is on and connected to the same network as your PC.

Now browse any directories containing music files. When finished, in the WMP main window, click on “Library”, then “Media sharing”.

Next, press the Source button and switch the NetWorks radio to Music Player mode and select “Shared media”. Now select your computer's name. The NetWorks' display will show “Unauthorized” and your computer's display will show an “Unknown Device”. Select the unknown device and click <Allow>. Then click <OK>. Press the Select button on the remote to

authorize the NetWorks to access your music files. Select “Music” from the NetWorks’ menu and select the rest of the options on the display until your music file starts playing.

Operating Shared Media after Set-Up:

- 1.) Select the Music Player mode under Source in the NetWorks+.
- 2.) Select Shared Media. The NetWorks+ will scan for all available UPnP servers. If no servers are found the display will show “Empty”. Otherwise;
- 3.) Use the Up/Down arrow buttons to highlight your server and press Select.
- 4.) Various media categories will be shown (Music, Playlists, etc). The actual menu structure from this point forward is provided by the media server and might change across systems. Use the Up/Down arrow buttons to highlight the file you wish to play and press Select. Note selecting “Video” or “Pictures” (if shown) will result in the display showing “Empty”.

As with the USB input, the Music player cannot play back protected music files that use Apple’s proprietary coding. Songs or albums purchased through iTunes use this format.

2. Shared Folders (CIFS):

In order to set up the NetWorks+ to playback music stored on shared network drives, user name, password, and domain settings must be configured to work with the PC share settings. This is only required if the user has set a password on his/her shared folders.

PC : Setting up a new user account (Windows XP)

The NetWorks+ requires a user account to be set up on each PC that you wish to browse. By default most PCs have at least one user account associated with it. The user name and password (optional) needs to be the same on each PC as the NetWorks+ only stores one user name and one password. For windows XP this can be set up as follows:

- 1) From the start menu, select Control Panel then User accounts.
- 2) From this screen left click the ‘Add...’, and enter the new user name and the Domain/Work-group setting noted above. Select the type of user (restricted) and then select finish.
- 3) Select the user just created then select ‘Reset Password...’ and enter a password for this user.
- 4) Make note of the User Name and Password.

Note for Windows VISTA: You have to turn on the Guest account via manage user accounts in the control panel in VISTA, then add access to either ‘Everyone’ or ‘Guest’ on the shared drive. You can create a new account for the NetWorks+ with a password if you are concerned about security. The Guest account has no password by default, so the NetWorks+ will connect to it from its factory default settings.

PC : Configuring a shared drive

From the Start menu select My Computer and navigate to the directory you wish to share. Right click on the directory and select Sharing and Security. Configure the shared drive as read only, and ensure that the User Name created above has read access to the share

NetWorks+ : Storing the username and password

Before the NetWorks+ can stream music from your PC, you need to ensure you have a shared folder available on your PC, and set up the NetWorks+ so that it knows the username and password (if one has been set) for the shared folder on your PC. This is accomplished through the “PC Settings” found in the “MP Setup” menu in Music Player mode.

Operating Shared Folders (CIFS) after Set-Up:

- 1.) Ensure your name and password in your PC have been configured.
- 2.) Select the Music Player mode under Source in the NetWorks+ and select Shared Folders.
- 3.) NetWorks+ searches for all available domains and shows all found domains:
- 4.) Once you select a domain, a list of PCs on the domain is displayed
- 5.) Select the PC you wish to access.
- 6.) Once a Domain and PC have been chosen, a list of all of the shared folders in the system is displayed.
- 7.) Select a folder and a file to play within the folder. Pressing Menu invokes the *Music player mode menu*, which allows returning to the *Main menu*.

As with the USB input, the Music player cannot play back protected music files that use Apple's proprietary coding. Songs or albums purchased through iTunes use this format.

DAB mode:

Station List: Shows all available DAB stations. Use the Up/Down arrow buttons to highlight a specific station and the Select button to tune that station.

Local Scan: Searches only for local DAB stations.

Full Scan: Searches the entire DAB frequency range. This scan takes longer to complete than the Local Scan. If you move the NetWorks+ to another location, you must perform a new Full Scan so the radio will find the stations in the new location.

Manual Tune: Press the ▲▼ buttons to manually tune specific DAB frequencies, then press Select to tune the displayed frequency.

DRC: Dynamic Range Control allows you change the sound level of stations to make quiet passages louder to compensate for a noisy environment or when listening at a low volume level. The options are:

DRC 0: Off.

DRC Low: ½ of transmitted signal.

DRC High: As transmitted.

Station Order: Allows customizing the DAB station list. Press the ▲▼ buttons to cycle through: Alphanumeric, Ensemble (grouped by station frequencies), or Validity (inactive stations placed last). Press Select to set your preference.

DAB display messages:

“Station off-air”: From time to time, some stations may stop broadcasting to perform upgrades or maintenance. In such instances, the LCD will show “Station off-air” and there will be no audio.

Secondary Services: Secondary stations will be indicated by a >> symbol next to the station name. Secondary services may not be available in your area.

“?”: If this symbol appears next to the station name, it means the station is invalid or inactive.

DAB+:

This is an expansion of DAB which allows for even more stations. Depending on your location, DAB+ stations might show on your display. However, you will not hear any audio if you try to tune DAB+ stations. Your NetWorks+ can be easily upgraded to decode DAB+ stations. Please visit <http://networks.tivoliaudio.com> for more information.

DAB Reception:

The number of DAB stations you will receive depends on your location. Fully extend the antenna in the vertical position. Position the antenna for best reception for each DAB channel and/or move the radio to a location that provides best reception (such as in front of a window). Just as with analog radio, weak digital signals can have a negative affect on sound quality.

WARNING: The DAB/FM antenna is not designed to be removed. Removal of this antenna will void your warranty.

FM Reception:

Buildings made with concrete, steel, or aluminum siding will hinder reception. Household appliances, electric blankets, computers, CD players, microwave ovens, and other electronic devices can also adversely affect reception or inject noise. If you experience this, move the NetWorks+ further from the offending device(s) or plug it into an electrical outlet not shared by another device.

FM RDS:

The Radio Data System (RDS) transmits text data along with the audio broadcast. Not all FM stations utilize RDS, thus, text may not be present with some stations. For stations using RDS, the text might still not appear or might appear scrambled if the RDS signal is too weak. In such cases, experiment with the position of the NetWorks+ FM antenna. Note RDS content is determined by each individual FM station. If the content shown is inaccurate, that is not the fault of the NetWorks+.

The Display:

The display's backlight and contrast are controlled automatically via a small sensor in the lower right corner of the front panel. There are no manual adjustments other than turning the display off. This option is found under the "Software Upgrade" menu. If selected, the display will go dark after the NetWorks+ is turned off. The display will return to normal when the NetWorks+ is powered on again, the alarm sounds, or power is interrupted. Note the display can be affected by hot and cold temperatures.

Placement:

Place the NetWorks+ on a flat, stable surface. The NetWorks+' driver is shielded and may be used in close proximity to a computer monitor or television set. Do not obstruct the rear bass port. Placement in a bookcase, corner, or against a wall will inflate the bass.

Cleaning:

Never use any harsh cleansers or solvents on the NetWorks+ cabinet or plastic panels, as this could damage the finish.

NOTE: Tivoli Audio cabinets use real wood veneers. Since natural wood varies greatly, it is not possible to achieve an exact wood color/grain match between models. You may also notice the wood darken over time with exposure to sunlight. Again, this is normal for real wood.

TROUBLESHOOTING:

If you are unable to get the NetWorks+ radio to connect to your WiFi network and you have a PC, confirm your PC can connect to your WiFi network to verify it is operational.

Check that your network doesn't restrict connections to particular MAC addresses. View the NetWorks+' MAC address in the main menu under "Info", shown as "Radio ID".

Check that a DHCP server is available, or that you configured a static IP address on the NetWorks+. You can configure a static IP address on the NetWorks+ in the main menu under "IR Set Up".

Check that your network's firewall isn't blocking any outgoing ports

**THE FOLLOWING IS A DESCRIPTION OF SOME OF THE MESSAGES
THE NETWORKS+ COULD DISPLAY:**

Message	Type	Description
Failed to connect	Error	Seen when a Wi-Fi network-related error occurs. Some examples of circumstances which will trigger a 'Failed to connect' are: 1.) NetWorks+ fails to connect to WiFi network 2.) Wrong network security key entered
NetWork error	Error	Seen when a server/connection-related error occurs. Some examples of circumstances which will trigger a 'Network error' are: 1.) NetWorks+ fails to connect to Wi-Fi network 2.) NetWorks+ fails to connect to an Internet station 3.) NetWorks+ was streaming a Internet station and connection failed midway through the streaming 4.) NetWorks+ fails to connect to a PC for streaming music
Format error	Error	Seen when the NetWorks+ has a problem playing the media due to unsupported format type. Some examples of circumstances which will trigger a 'Format error' are: 1.) NetWorks+ tunes to a Internet radio station which is being transmitted using an unsupported audio codec 2.) NetWorks+ tries to play a music file from a PC which is in a format not supported
Not Available	Info	Seen when NetWorks+ tries to tune to a DAB station without sufficient signal reception.
Connecting...	Info	Seen when NetWorks+ tries to establish connection with a network, server, or Internet station.
Loading...	Info	Seen once the NetWorks+ has established connection and starts buffering the station/stream.
Playing...	Info	Seen once NetWorks+ has completed connecting and loading, and starts playing the stream. This is the point when the station becomes audible.
Stopped	Info	Seen when an Internet radio station is currently not transmitting or the station's or music file's stream is un-decodable.
USB update	Info	Seen when the NetWorks+ is unplugged or loses power during a software upgrade and must be serviced to restore normal operation.

Limited Warranty:

Tivoli Audio manufactures its products to very high standards and we are confident our products will perform well. Accordingly, we provide a limited warranty on this product against manufacturing defects in material and workmanship to the original owner. This warranty is non-transferable.

Products purchased in the European Union, Switzerland, and Norway have a minimum warranty term of two years. For countries where minimum warranty terms are determined by statute, the warranty term is the statutory period required. In all other locations, the warranty term is one year.

This Limited Warranty covers the functionality of the product for its normal, intended use as specified in this Owner's Manual. It does not cover a malfunction or damage that has resulted from improper or unreasonable use or installation, using the charger to charge alkaline batteries, faulty ancillary equipment, modifications, unauthorized repair, shipping damage or loss, abuse, accidents, use on improper voltage/current, power surges, lightning or other acts of God, excess moisture, normal wear and tear, commercial use, or purchase from unauthorized dealers. Proof of purchase as evidence the unit was purchased from an authorized dealer may be required for warranty service. **Please contact the dealer of purchase or local distributor for warranty service or repair.**

Please refrain from opening this product or taking it apart as doing so will void this Limited Warranty. There are no user serviceable parts inside. Tivoli Audio will not pay for costs incurred due to correction of reception problems, elimination of externally generated static/noise, loss of time, inconvenience, loss of use of product, or damage caused by improper use of this product.

In the event the product is returned during the warranty term and is eligible for service under this Limited Warranty, we will repair or replace any defective parts within a reasonable period of time and free of charge.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS SUBJECT TO SPECIFIED CONDITIONS. YOU MAY ALSO HAVE OTHER LEGAL RIGHTS WHICH APPLY TO THE PRODUCT YOU HAVE ACQUIRED. THESE LEGAL RIGHTS VARY FROM COUNTRY TO COUNTRY. SOME PLACES DO NOT ALLOW THE EXCLUSION, RESTRICTION, OR MODIFICATION OF CERTAIN IMPLIED RIGHTS OR THEIR EFFECT. IN THOSE SITUATIONS THIS LIMITED WARRANTY WILL ONLY APPLY TO THE EXTENT THAT THE APPLICABLE LAW ALLOWS.

The laws of your country may provide you with legal claims against the seller or manufacturer of this product. This Limited Warranty does not affect those rights.

The provisions of the Limited Warranty are in lieu of any other warranties or conditions, except those provided by law. This Limited Warranty does not affect any legal rights provided to you by law and does not preclude any remedy you may have under law.

In countries where liability limits are not precluded by statute, the maximum liability of Tivoli Audio shall not exceed the purchase price paid by you for the product. In countries where limitations of liability are precluded by law, Tivoli Audio shall be liable for no more than the direct damages for bodily injury, and/or real or personal property arising from the negligence of Tivoli Audio.

Where not prohibited by law, Tivoli Audio shall not be liable for special, incidental, consequential, or indirect damages. Some places do not allow limitations on the exclusion or limitation of relief, special, incidental, consequential or indirect damages, or the limitation of liability to specified amounts, so the above limitations or exclusions may not apply to you.

This Limited Warranty is void if the label bearing the serial number has been removed or defaced.

If you purchased an extended service contract from your dealer and service is required after the term of this Limited Warranty has expired, please contact your extended service contract provider to obtain service.

For your convenience, you may register your product for warranty service online at our website, www.tivoliaudio.com. There is no legal obligation for you to provide personal information. However, such information allows us to maintain a record of the Tivoli Audio products acquired by you and better understand the purchasers of our products. The information collected will be used for marketing purposes by Tivoli Audio and, where permitted, to contact you in relation to the products you have acquired or other products which might be of interest to you from Tivoli Audio or other companies. The information that you provide may be processed in another country.

Please visit the Tivoli Audio FAQ section at www.tivoliaudio.com prior to any request for warranty service as information available there may answer your questions or concerns.

For your convenience, you may register your product for warranty coverage on-line at www.tivoliaudio.com.

For service, please contact your dealer or local distributor.

Specifications:

Model:	Tivoli Audio NetWorks+
Type:	Internet radio/DAB/FM RDS table radio
Drivers:	3.5" full range, magnetically shielded
Receiving bands:	Internet radio: 2412-2472MHz DAB (Band III): 174-240MHz FM: 87.5-108MHz
FM De-Emphasis:	50uSec or 75uSec depending on country
Formats:	WMA, Real Audio, MP3
Dimensions:	5.51"W x 8.74"H x 5.12"D (140mm W x 222mm H x 130mm D)
Weight:	4.0 lbs./1.814 kg

All specifications subject to change without notice.

Tivoli Audio reserves the right to make product changes without notice.

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