

USB2.0

T.sonic™ 630

User's Manual

Transcend

Exceeding Your Expectations

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Introduction

Thank you for purchasing **Transcend's T.sonic™ 630**. A new generation of Flash MP3 Player that combines all the advantages of a great sounding MP3 player with a USB Flash Drive and includes many extra features as standard such as, an FM Radio, Advanced Digital Voice Recorder, Direct Line-In recording, Karaoke-type Lyrics display, A-B repeat functions and variable Track Playback speeds. Your **T.sonic™ 630** supports Hi-speed USB 2.0 for faster uploading and downloading of data, or music files to and from a computer. Using the A-B repeat and variable Track Playback speed features allows you to continuously replay a designated section of a track at slower/faster speeds; this makes the **T.sonic™ 630** an ideal language-learning tool. In addition, you can record memos to yourself or from others using the advanced digital voice recorder and the unit's Line-In recording feature lets you record music, or audio books directly from a CD Player, or external microphone to your **T.sonic™ 630**. The stylish **T.sonic™ 630** from Transcend will change the way you think about your digital music forever.

Package Contents

The **T.sonic™ 630** package includes the following items:

- T.sonic™ 630



- Earphones



- Software CD



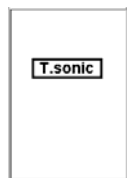
- Mini USB to USB A-Type cable



- Direct Line-In Recording cable



- Quick Instruction Guide



Features

- MP3 Player that supports MP3, WMA, WMA-DRM10 (subscription music) and WAV music formats
- FM Radio (FM Radio recording and the ability to preset 20 FM radio stations)
- Advanced Digital Voice Recorder: specify an individual (memo), or group (meeting) environment
- One-Touch Recording: even when Powered OFF, press and hold the REC button to start the Built-in Microphone Recording
- Karaoke-type lyrics display
- Direct Line-In recording from a CD Player, or external Microphone
- Brilliant, White text (4-Line) OLED Display produces a vibrant clear display, easily viewed at any angle and in any light
- Scheduled Recordings: preset a time to auto-start a Radio, or Microphone recording
- VAD (Voice Activation Detection), Very High quality Gapless Audio Recordings
- Playlist Builder
- A-B repeat function allows you to continuously replay a designated section of a track
- Variable Track Playback speeds
- Supports 12 user languages including song/artist name display
- USB Flash Drive capabilities for data transfer and storage, plus additional software
- 7 Equalizer effects, including a customizable USER EQ setting
- Powered using a rechargeable Li-ion battery (fully charged battery supports over 15 hours of continuous operation)
- Hi-Speed Mini USB 2.0 port for easy computer connectivity and fast file transfers
- Sleep Mode, preset the player to Auto-Power OFF after 15, 30, or 60 minutes
- Automatic screen saver runs if the unit is idle for more than a few seconds, this acts as a battery saving measure
- Real Time Clock (RTC) displays local and world times

System Requirements

Desktop or notebook computer with a working USB port.

One of following Operating Systems (OS):

- Windows® Me
 - Windows® 2000
 - Windows® XP
 - Mac™ OS 10.0, or later
 - Linux™ Kernel 2.4, or later
-

Safety Precautions

These usage and safety guidelines are **IMPORTANT!** Please follow them carefully.



Your T.sonic™ 630 is connected to a computer using a Mini USB to USB A-Type cable. Please ensure that you connect the cable ends to the ports correctly.

General Use

- Carefully unpack the contents of the **T.sonic™** package.
- Do not allow your **T.sonic™** to become damp or wet from water or any other liquids.
- Do not use a damp/wet cloth to wipe or clean the exterior case.
- Do not use or store your **T.sonic™** in any of the listed environments:
 - Direct sunlight
 - Next to an air conditioner, electric heater or other heat sources
 - In a closed car that is in direct sunlight

Backing Up Data

- **Transcend does NOT take any responsibility for data loss, or damage during operation.** If you decide to store data on your **T.sonic™** we strongly advise that you regularly backup the data to a computer, or other storage medium.
- To ensure Hi-Speed USB 2.0 data transfer rates when using the **T.sonic™ 630**, please check the computer has the relevant USB drivers installed. If you are unsure on how to check this, please consult the computer, or motherboard User's Manual for USB driver information.

Caution: Risk of Deafness

1. Repeated or regular use of headphones or earphones at volume levels above 80 decibels can give a false impression that the audio level is not high enough. Users may try to progressively increase the volume control therefore risking a dangerous noise level for their ears.
2. To protect your health and your hearing, keep the volume of your MP3 player below 80 decibels and do not use for an extended period of time. Stop use if symptoms like headaches, nausea, or hearing disorders occur.
3. Your MP3 player is limited to a volume level of 100 decibels.
4. Both the MP3 player and its accompanying earphones are compliant with the French regulation concerning musical Walkmans (24th July 1998 Order).
5. Before using other earphones, confirm that their technical specifications are compatible with the original set.

Reminders

1. Make sure the **LOCK** switch is set to "**OFF**" before trying to Power ON the unit.
2. Never use the "Quick Format," or "Full Format" in Windows® to format your **T.sonic™ 630**.
3. Follow the procedures in the "**Disconnecting from a Computer**" section to remove your **T.sonic™ 630** from a computer.
4. We suggest you update your device's firmware before starting to use it for the first time.

Product Overview



Figure 1. T.sonic 630

- A** Reset Switch
- B**  A-B Repeat/Rec Button
- C**  Menu Button
- D**  LOCK Switch
- E** Hi-Speed Mini USB 2.0 Port
- F**  Back-Fast Rewind Button
- G**  Next-Fast Forward Button
- H**  PLAY/PAUSE/PWR ON-OFF
- I**  Volume Up Button
- J**  Volume Down Button
- K** Line-In Port
- L** White Text OLED Display
- M** Microphone
- N**  Earphones Jack
- O** Neck Strap hole

OLED Display



Figure 2. OLED Display

	ICON	INDICATION
1	Sleep Mode	Indicates that the Player is setup to auto Power OFF
2	A-B Repeat/ Repeat/Shuffle Modes	Indicates the A-B Repeat/Repeat/Shuffle modes: Normal , Repeat One , Repeat All , Shuffle and Repeat in Folder
3	Preset Record	Preset the player to make an automatic Radio , MIC recording
4	EQ Mode	Indicates the Equalizer (EQ) mode: Normal , POP , Rock , Classical , Jazz , Bass and USER EQ
5	Play Speed	Indicates the Playback speed
6	Lock	Indicates when the Lock switch is enabled
7	Battery Life	Indicates the Battery power level
8	Album/Artist	Indicates the Album and/or Artist name
9	Player Status	Indicates the Play , Pause , Fast Forward and Fast Rewind status
10	Track Info	Indicates Track number and Playtime length
11	Date	Today's date and day
12	Time	Real Time Clock (RTC) displays local (L) and world times (W)

Basic Operation



Before using the T.sonic™ 630 for the first time you need to charge the internal battery for at least 12 hours by plugging it into a computer using the Mini USB to USB A-Type cable.

Charging the Battery

Plug the small end of the Mini USB to USB A-Type cable into the Mini USB connector on the T.sonic™ 630 and plug the large end of the cable into an available USB port on your desktop, or notebook computer. The T.sonic™ 630's internal Li-ion battery will begin charging.

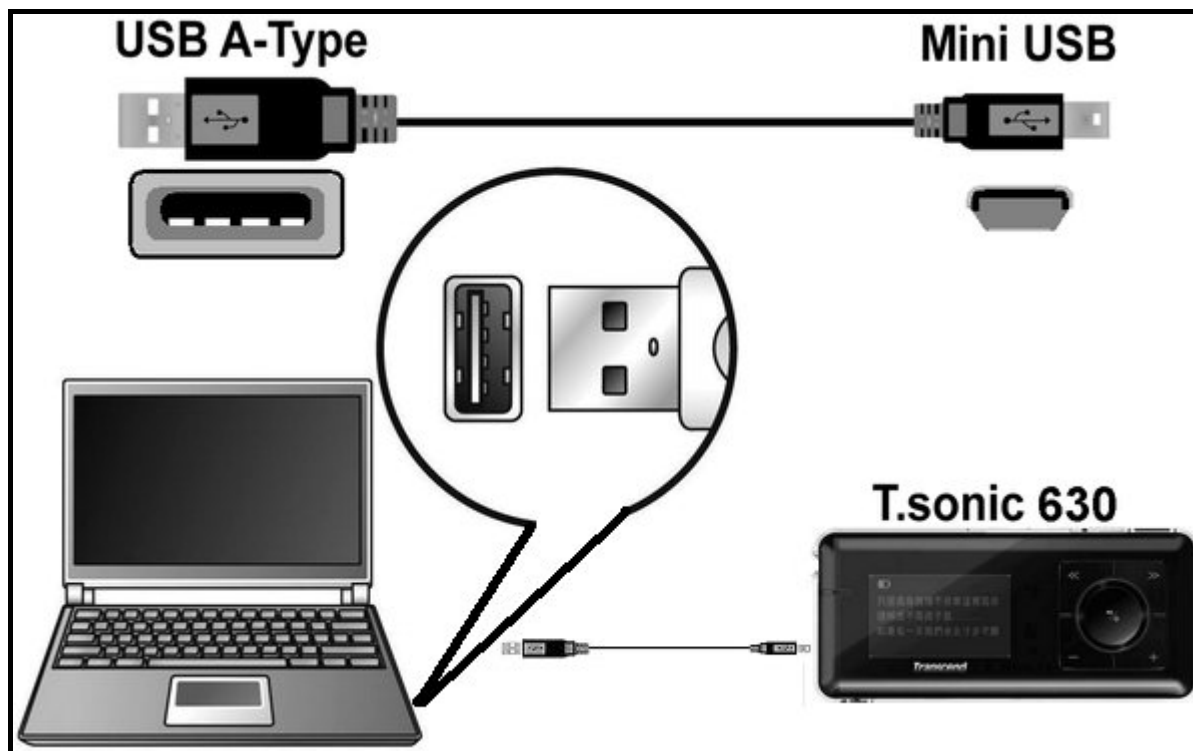


Figure 3. Connecting to a Computer

Power ON

Press and Hold the “PLAY/PAUSE/PWR ON-OFF” button  to Power ON the T.sonic™ 630. An animated logo will appear on the OLED Display. After the startup screen disappears the player will revert to the default **MUSIC** Mode screen, you can now begin to use the T.sonic™ 630.

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- ❖ It takes a few seconds to Power ON the unit.
- ❖ When powering on the unit, if the **LOCK** icon  appears on the OLED Display, this means that the T.sonic™ 630's “LOCK” switch  is on. You must switch off the “LOCK” before you can Power ON the T.sonic™ 630.

Power OFF

- Press and Hold the “**PLAY/PAUSE/PWR ON-OFF**” button  to Power OFF the **T.sonic™ 630**.
- ❖ It takes a few seconds to Power OFF the unit.
- ❖ The OLED screen will display the Power OFF status.

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Play a Track

- Press the “**PLAY/PAUSE/PWR ON-OFF**” button  to play a selected MP3/WMA, WMA-DRM10, or WAV track.

Pause a Track

- Press the “**PLAY/PAUSE/PWR ON-OFF**” button  to pause a track during playback.

Next Track

- Press the “**Next-Fast Forward**” button  to skip to the Next track.

Previous Track

- Press the “**Back-Fast Rewind**” button  to return to the Previous track.

Fast Forward

- Press and Hold the “**Next-Fast Forward**” button  to Fast Forward a track.

Fast Rewind

- Press and Hold the “**Back-Fast Rewind**” button  to Fast Rewind a track.

Increase Volume

- Press once, or Press and Hold the “**Volume Up**” button  until you reach the desired volume level.

Decrease Volume

- Press once, or Press and Hold the “**Volume Down**” button  until you reach the desired volume level.

Main Menu

- Press the “**Menu**” button  in any Mode to enter the Main Menu. The Main Menu gives you access to the **MUSIC**, **RADIO**, **RECORD** and **SETTINGS** Modes.

Make an Audio Recording

The Default **Recording** Mode for the **T.sonic™ 630** is its **Built-in Microphone**.

- Press and Hold the “**A-B/REC**” button  for more than 2 seconds (even when Powered OFF) in any mode except the **RADIO** Mode will activate the **T.sonic™ 630**'s built-in microphone and begin recording.
- Press and Hold the “**A-B/REC**” button  for more than 2 seconds during a recording to stop the recording.
- Recorded audio files are saved in the **RECORD** Mode.

Repeat a Track

Please see the “**REPEAT Mode**” in the **Settings** section for detailed instructions.

Repeat All Tracks

Please see the “**REPEAT Mode**” in the **Settings** section for detailed instructions.

Shuffle: Play Random Tracks

Please see the “**REPEAT Mode**” in the **Settings** section for detailed instructions.

Repeat All Tracks in a Folder

Please see the “**REPEAT Mode**” in the **Settings** section for detailed instructions.

A-B Repeat: Repeat a Section of a Track

- In the **MUSIC** Mode, press the “**A-B/REC**” button  once to mark the beginning of the track you wish to repeat.
- Press the “**A-B/REC**” button  again to mark the end of the section of the track you wish to repeat.
- The marked section of the track is played as a continuous loop when playing an MP3, WMA, WMA-DRM10, or WAV track.
- Press the “**A-B/REC**” button  for a third time to stop the track repeating.

Lock

When the “**LOCK**” switch  is set to the “**ON**” position, all of the **T.sonic™ 630**'s buttons are disabled.

Reset the T.sonic™ 630

You can **Reset** the unit by pressing the “**Reset**” button  for 3 to 5 seconds.

MUSIC Mode



If you want to buy DRM (Digital Rights Management) music online please be advised that the T.sonic™ 630 only supports WMA-DRM10 music files and you must use the MTP Music Transfer Mode to transfer the files to the player.

Play MP3, WMA and WMA-DRM10 (Subscription) Music

1. Press and Hold the “PLAY/PAUSE/PWR ON-OFF” button  to Power ON the unit. The default screen is the **MUSIC** Mode screen.



- ❖ You can also enter the **MUSIC** Mode by pressing the “Menu” button  to enter the Main Menu, then press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  until you reach the “MUSIC” icon , press the “PLAY/PAUSE/PWR ON-OFF” button  to enter the **MUSIC** Mode.
2. If no MP3, WMA, or WMA-DRM10 files exist, a “**No Files**” message will be displayed on the OLED screen.



3. Press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select a desired MP3/WMA, or WMA-DRM10 file.
 4. Press the “PLAY/PAUSE/PWR ON-OFF” button  to play the MP3/WMA, or WMA-DRM10 music file.
- ❖ T.sonic™ 630 only supports Mpeg I Layer 3 and WMA files compressed at a rate between 32Kbps – 320Kbps.

File Navigator Mode

The File Navigator is a fast and convenient way of moving between tracks, files and folders. You can also use the File Navigator to select tracks for your own personal Playlist. The order in which you select tracks for inclusion in your Playlist is the order the tracks will be played.

1. In the **MUSIC** Mode, Press and Hold the “Menu” button  to enter the **Navigator**.



2. Press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select a folder.
3. Press the “PLAY/PAUSE/PWR ON-OFF” button  to enter a folder, press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select a file and press the “PLAY/PAUSE/PWR ON-OFF” button  to play a selected music file.
4. Press the “A-B/REC” button  to add a track to the Playlist.

5. Pressing the **"Menu"** button  will move you up one folder level.
6. Pressing the **"Menu"** button  repeatedly will take you back to the root directory [/Root.DIR/] (top folder level).
7. Pressing the **"Menu"** button  in the root directory [/Root.DIR/] (top folder level) will quit the Navigator.

Delete a file in the MUSIC Mode

1. In the **MUSIC** Mode, Press and Hold the **"Menu"** button  to enter the **Navigator**.



2. Press the **"Next-Fast Forward"** button , or **"Back-Fast Rewind"** button  to select a folder.
3. Press the **"PLAY/PAUSE/PWR ON-OFF"** button  to enter a folder, press the **"Next-Fast Forward"** button , or **"Back-Fast Rewind"** button  to select a file and press the **"A-B/REC"** button  to enter the **DELETE FILE** Mode.

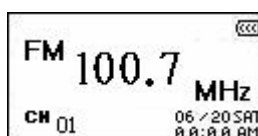
RADIO Mode

Listen to the Radio

1. The Earphones  must be plugged in to listen to the Radio.
2. Press the “Menu” button  to enter the Main Menu.
3. Press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the “RADIO” icon , then press the “PLAY/PAUSE/PWR ON-OFF” button  to enter the RADIO Mode.



4. The FM Radio Frequency will be displayed on the OLED screen.

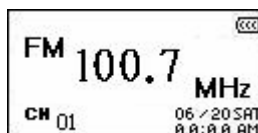


- ❖ For your convenience the first time you use the Radio, all the FM channels will be automatically scanned and the first 20 channels with a strong signal will be preset. This feature also works if you activate the “FM Reset” in the **SETTINGS** menu.

Selecting a Radio Station

You can manually search for a Radio station in the **RADIO** Mode.

1. Press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to adjust the FM frequency by 0.1 MHz each time until you reach the desired station. Alternatively, you can Press and Hold the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to quickly auto-scan for the next available channel.



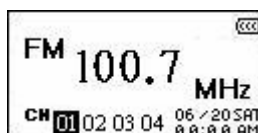
Increase/Decrease the Volume

1. Press once, or Press and Hold the “Volume Up” button , or “Volume Down” button  until you reach the desired volume level.

Saving a Radio Station

You can save your 20 favorite Radio stations from CH 01 to CH 20 in the **T.sonic™ 630**'s memory.

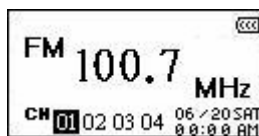
1. Select the Radio station (FM frequency) that you wish to save.
2. Press the “A-B/REC” button  to display the channel numbers 1 to 20 on the screen.



3. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the channel number where you want to save the Radio station.
4. Press the “**A-B/REC**” button  again to save the selected station to the channel number.

Recall a Saved Station

1. In the **RADIO** Mode press the “**A-B/REC**” button  to display the channel numbers 1 to 20 on the screen.



2. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the channel number of the Radio station to which you want to listen.
3. Press the “**PLAY/PAUSE/PWR ON-OFF**” button  and the Radio station that has been saved to this channel will begin to play.
4. The screen will return to the **RADIO** Mode displaying the saved FM frequency.

Record a Radio Station

1. Select the Radio station (FM frequency) that you wish to record.
2. Press and Hold the “**A-B/REC**” button  for more than 2 seconds to begin recording the station.
3. A recording FM Radio file is generated and will appear on the screen; this file is saved in the **RECORD** Mode in the **[/FMIN.DIR/]** folder.



4. Files Recorded from the FM Radio are named in the order **[Month/DayF001.WAV]**, then **[Month/DayF002.WAV]**, and so forth.
5. Pressing the “**PLAY/PAUSE/PWR ON-OFF**” button  during a recording will Pause the recording, pressing the “**PLAY/PAUSE/PWR ON-OFF**” button  again will resume the recording.
6. Press and Hold the “**A-B/REC**” button  for more than 2 seconds during a recording to stop the recording and the screen will return to the **RADIO** Mode.
7. **Radio** Recordings are saved in the **RECORD** Mode in the **[/FMIN.DIR/]** folder, Recorded Radio files are saved in the order **[Month/DayF001.WAV]**, then **[Month/DayF002.WAV]**, and so forth. Recorded Radio files can be accessed using the **File Navigator**.

	Sample rate	Channels	1GB	2GB	4GB
Record Radio	Low (8KHz)	2 (stereo)	32 hrs	64 hrs	128 hrs
	Avg (16KHz)	2 (stereo)	16 hrs	32 hrs	64 hrs
	Med (22KHz)	2 (stereo)	12 hrs	24 hrs	48 hrs
	Good (32KHz)	2 (stereo)	8 hrs	16 hrs	32 hrs
	High (44KHz)	2 (stereo)	6 hrs	12 hrs	24 hrs

- ❖ If not enough memory space is available, or the battery power is too low, the **T.sonic™ 630** cannot support the maximum recording capacity as outlined in the above table.

RECORD Mode

Record Sound

The **T.sonic™ 630** has advanced recording features and is capable of recording audio from 4 different sources: **FM Radio**, **Built-In Microphone**, **External Microphone**, or **Line-In** (e.g. CD Player), all are capable of making very high quality Audio Recordings.

The **FM Radio** recording feature has been covered in the previous section “[Record a Radio Station](#).”

If you want to make a recording using the **T.sonic™ 630**’s **Built-In Microphone** you must select the “**MIC**” as the recording source.

Select a Recording Device

The default Audio **Recording** method for the **T.sonic™ 630** is its **Built-In Microphone**. However, you have the option of selecting an **External Microphone**, or **Line-In** Device to make a recording.

1. Pressing and Holding the “**A-B/REC**” button  for more than 2 seconds (even when Powered OFF) in any Mode except the **RADIO** Mode will begin an audio recording using the **T.sonic™ 630**’s Built-in Microphone.
2. Select a recording device by Pressing the “**Menu**” button  to enter the Main Menu.
3. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the “**SETTINGS**” icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **SETTINGS** Mode.



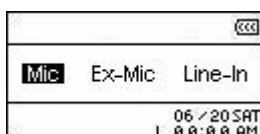
4. In the **SETTINGS** Mode, Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **REC Settings** icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **REC Settings** Menu.



5. In the **REC Settings** Menu, Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **REC Input Device** icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **REC INPUT DEVICE** Mode.



6. In the **REC INPUT DEVICE** Mode, Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **MIC (Built-in Microphone)**, **Ext MIC (External Microphone)**, or **Line-In** (e.g. **CD Player**) as the recording device, then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to confirm the selection.



Record using the Built-In Microphone

1. Unless otherwise selected, Pressing and Holding the “**A-B/REC**” button  for more than 2 seconds in any mode except the **RADIO** Mode will begin an audio recording using the **T.sonic™ 630**’s Built-in Microphone.
2. A Recording file is generated and will appear on the screen; this file is saved in the **RECORD** Mode in the **[/MICIN.DIR/]** folder.



3. Files Recorded using the Built-in Microphone are named in the order **[Month/DayM001.WAV]**, then **[Month/DayM002.WAV]** and so forth.
4. Pressing the “**PLAY/PAUSE/PWR ON-OFF**” button  during a recording will Pause the recording, pressing the “**PLAY/PAUSE/PWR ON-OFF**” button  again will resume the recording.
5. Press the “**A-B/REC**” button  for more than 2 seconds during a recording to stop the recording and the screen will return to the **RECORD** Mode.
6. Recorded audio files can be accessed in the **RECORD** Mode, or by using the **File Navigator**.

	Sample rate	Channels	1GB	2GB	4GB
Record Sound	Low (8KHz)	1 (mono)	64 hrs	128 hrs	256 hrs
	Avg (16KHz)	1 (mono)	32 hrs	64 hrs	128 hrs
	Med (22KHz)	1 (mono)	24 hrs	48 hrs	96 hrs
	Good (32KHz)	1 (mono)	16 hrs	32 hrs	64 hrs
	High (44KHz)	1 (mono)	12 hrs	24 hrs	48 hrs

- ❖ If not enough memory space is available, or the battery power is too low, the **T.sonic™ 630** cannot support the maximum recording capacity as outlined in the above table.
- ❖ The closer you move the **T.sonic™ 630**’s Microphone to the source of the sound the higher the quality of the recording.

Record using the External Microphone

1. In the **REC INPUT DEVICE** Mode select **Ext MIC (External Microphone)** as the recording device.
2. Plug an External Microphone into the **T.sonic™ 630**’s **Line-In** port.
3. Press and Hold the “**A-B/REC**” button  for more than 2 seconds to begin an audio recording using the **External Microphone**.
4. A Recording file is generated and will appear on the screen; this file is saved in the **RECORD** Mode in the **[/MICIN.DIR/]** folder.



- Files Recorded using an External Microphone are named in the order **[Month/DayM001.WAV]**, then **[Month/DayM002.WAV]** and so forth.
- Pressing the “**PLAY/PAUSE/PWR ON-OFF**” button  during a recording will Pause the recording, pressing the “**PLAY/PAUSE/PWR ON-OFF**” button  again will resume the recording.
- Press the “**A-B/REC**” button  for more than 2 seconds during a recording to stop the recording and the screen will return to the **RECORD** Mode.
- Recorded audio files can be accessed in the **RECORD** Mode, or by using the **File Navigator**.

	Sample rate	Channels	1GB	2GB	4GB
Record Sound	Low (8KHz)	1 (mono)	64 hrs	128 hrs	256 hrs
	Avg (16KHz)	1 (mono)	32 hrs	64 hrs	128 hrs
	Med (22KHz)	1 (mono)	24 hrs	48 hrs	96 hrs
	Good (32KHz)	1 (mono)	16 hrs	32 hrs	64 hrs
	High (44KHz)	1 (mono)	12 hrs	24 hrs	48 hrs

- ❖ If not enough memory space is available, or the battery power is too low, the **T.sonic™ 630** cannot support the maximum recording capacity as outlined in the above table.
- ❖ The closer you move the **External Microphone** to the source of the sound the higher the quality of the recording.

Record using the Line-In connection

- In the **REC INPUT DEVICE** Mode select **Line-In** as the recording device.
- Plug the Line-In cable into the **T.sonic™ 630**'s **Line-In** port and connect the other end of the Line-In cable to a compatible source device e.g. CD Player.
- Press and Hold the “**A-B/REC**” button  for more than 2 seconds to begin recording the source device using the **T.sonic™ 630**'s Line-In connection.
- A Recording file is generated and will appear on the screen; this file is saved in the **RECORD** Mode in the **[/LINEIN.DIR/]** folder.



- Files Recorded using the Line-In are named in the order **[Month/DayL001.WAV]**, then **[Month/DayL002.WAV]** and so forth.
- Pressing the “**PLAY/PAUSE/PWR ON-OFF**” button  during a recording will Pause the recording, pressing the “**PLAY/PAUSE/PWR ON-OFF**” button  again will resume the recording.
- Press the “**A-B/REC**” button  for more than 2 seconds during a recording to stop the recording and the screen will return to the **RECORD** Mode.

Recorded files can be accessed in the **RECORD** Mode, or by using the **File Navigator**.

Record Sound	Sample rate	Channels	1GB	2GB	4GB
	Low (8KHz)	2 (stereo)	32 hrs	64 hrs	128 hrs

	Avg (16KHz)	2 (stereo)	16 hrs	32 hrs	64 hrs
	Med (22KHz)	2 (stereo)	12 hrs	24 hrs	48 hrs
	Good (32KHz)	2 (stereo)	8 hrs	16 hrs	32 hrs
	High (44KHz)	2 (stereo)	6 hrs	12 hrs	24 hrs

- ❖ If not enough memory space is available, or the battery power is too low, the **T.sonic™ 630** cannot support the maximum recording capacity as outlined in the above table.

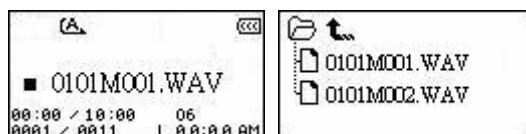
Play a Recorded Sound File

1. Press the “**Menu**” button  to enter the Main Menu.
2. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the “**RECORD**” icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **RECORD** Mode.
3. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select a desired [Month/DayF00x.WAV], [Month/DayM00x.WAV], or [Month/DayL00x.WAV] file.
4. Press the “**PLAY/PAUSE/PWR ON-OFF**” button  to play the recorded file.

File Navigator Mode

The File Navigator is a fast and convenient way of moving between tracks, files and folders.

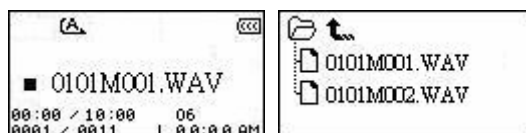
1. In **RECORD** Mode, Press and Hold the “**Menu**” button  to enter the **Navigator**.



2. Press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the folder, press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select a file and press the “**PLAY/PAUSE/PWR ON-OFF**” button  to play the selected WAV file.
3. Pressing the “**Menu**” button  will move you up one folder level.
4. Pressing the “**Menu**” button  repeatedly will take you back to the root directory [/Root.DIR/] (top folder level).
5. Pressing the “**Menu**” button  in the root directory [/Root.DIR/] (top folder level) will quit the **Navigator**.

Delete a file in the RECORD Mode

1. In the **RECORD** Mode, Press and Hold the “Menu” button  to enter the **Navigator**.



2. Press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select a folder.
 3. Press the “PLAY/PAUSE/PWR ON-OFF” button  to enter a folder, press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select a file and press the “A-B/REC” button  to enter the **DELETE FILE** Mode.
-

Settings

Enter the Settings Menu

1. Press the “**Menu**” button  to enter the Main Menu.
2. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the “**SETTINGS**” icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **SETTINGS** Mode.



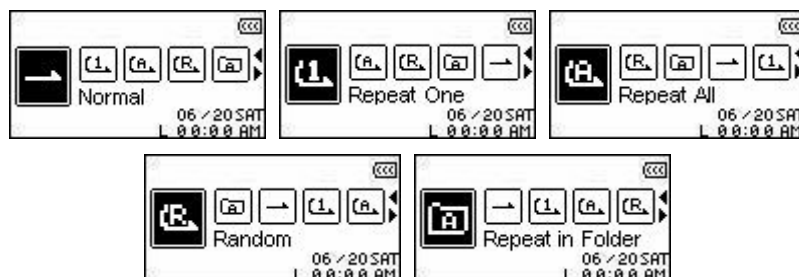
Repeat Mode

There are several **REPEAT** Modes to choose from: Normal, Repeat One, Repeat All, Repeat Shuffle and Repeat Folder.

1. In the **SETTINGS** Menu, press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **Repeat** icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **REPEAT** Mode.



2. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to change the **REPEAT** Mode, press the “**PLAY/PAUSE/PWR ON-OFF**” button  to select the Repeat setting and return to the **SETTINGS** Menu.



Equalizer (EQ) Mode

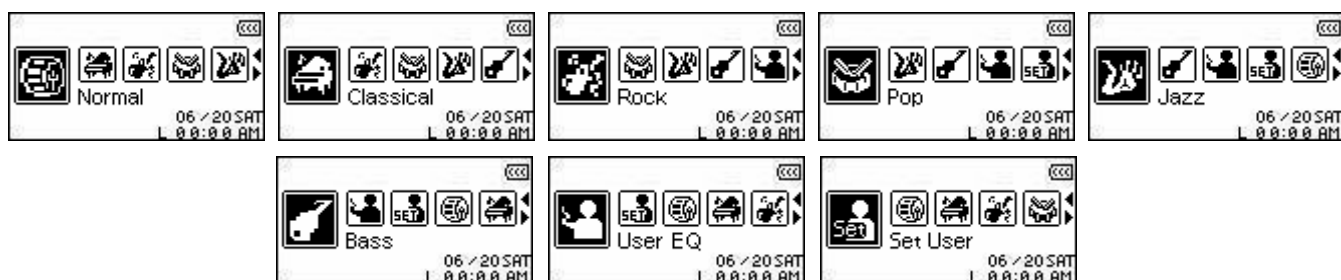
There are several **EQUALIZER** Modes to choose from: Normal, Pop, Rock, Classical, Jazz, Bass, or User EQ.

1. In the **SETTINGS** Menu, press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **Equalizer** icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **EQUALIZER** Mode.



2. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to change the **EQUALIZER** Mode, press the “**PLAY/PAUSE/PWR ON-OFF**” button  to select the EQ

setting and return to the **SETTINGS** Menu. You will instantly hear the different sound effect in your earphones.



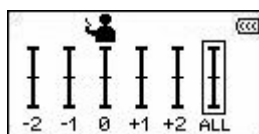
User EQ Customization

The **User EQ** allows you to customize the settings of a 5 Band Equalizer to your personal preferences.

1. In the **EQUALIZER** Mode, press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the **Set User EQ** icon , then press the “PLAY/PAUSE/PWR ON-OFF” button  to enter the **Set USER EQ** Mode.



2. Press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to switch between the 5 customizable equalizer Bands: 80Hz - 250Hz - 1KHz - 4KHz - 12KHz. Press the “Volume Up” button , or “Volume Down” button  to Increase, or Decrease the EQ settings from -8dB to +7dB in 1.0dB steps.



3. Press the “PLAY/PAUSE/PWR ON-OFF” button  to save the new **User EQ** settings and return to the **EQUALIZER** Mode.

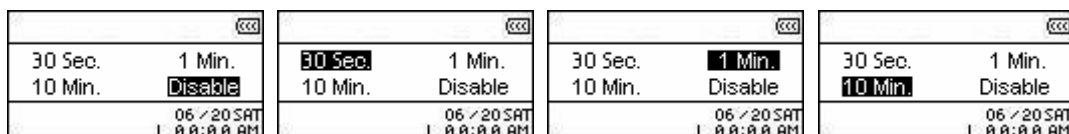
Screen Saver

Sets a time delay for the screen to (1) go **Blank**, (2) display the **Clock**, (3) display the **Song Title**, (4) display **Image 1**, or (5) display **Image 2**, if no buttons are being pressed e.g. After 5 Seconds of button inactivity the screen will go blank.

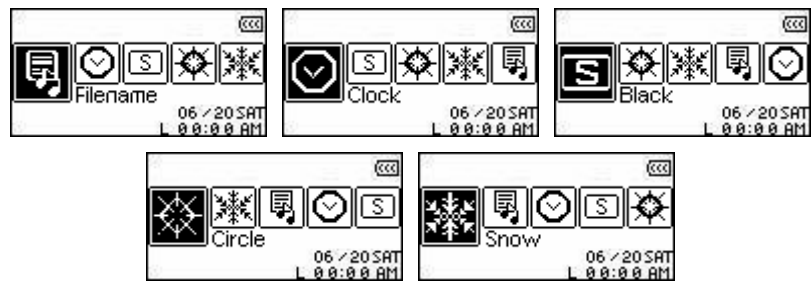
1. In the **SETTINGS** Menu, press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the **Screen Saver** icon , then press the “PLAY/PAUSE/PWR ON-OFF” button  to enter the **SCREEN SAVER** Mode.



2. Press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to set the timer for the Screen Saver: **Always Off** – **30 Sec** – **1 Min** – **10 Min**. Press the “PLAY/PAUSE/PWR ON-OFF” button  to select the Screen Saver timer delay.



3. After you select a Screen Saver timer delay you can setup the screen to go **Blank**, display the **Clock**, or display the **Song Title** when the screen saver is activated.
4. Press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the **Blank**, **RTC**, **Song Title**, **Image 1**, or **Image 2** icon. Press the “PLAY/PAUSE/PWR ON-OFF” button  to select the type of **Screen Saver** and return to the **SETTINGS** Menu.



Sleep

Sets a time delay to automatically Power OFF the **T.sonic™ 630** even during operation.

1. In the **SETTINGS** Menu, press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the **Sleep** icon , then press the “PLAY/PAUSE/PWR ON-OFF” button  to enter the **SLEEP** Mode.



2. Press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to set the **Sleep** timer for the unit to automatically Power OFF: **OFF – 15 Min – 30 Min – 60 Min**. Press the “PLAY/PAUSE/PWR ON-OFF” button  to select the **Sleep** timer delay and return to the **SETTINGS** Menu.



Contrast

Sets the contrast of the White text OLED display, but the higher the contrast level, the greater the drain on the battery.

1. In the **SETTINGS** Menu, press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the **Contrast** icon , then press the “PLAY/PAUSE/PWR ON-OFF” button  to enter the **CONTRAST** Mode.



2. Press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to Increase, or Decrease the OLED's Contrast. Press the “PLAY/PAUSE/PWR ON-OFF” button  to select the new **Contrast** level and return to the **SETTINGS** Menu.



Language

Sets the **T.sonic™ 630**'s User language, including the display of song and artist titles. The player supports 12 User languages.

1. In the **SETTINGS** Menu, press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the **Language** icon , then press the “PLAY/PAUSE/PWR ON-OFF” button  to enter the **LANGUAGE** Mode.



2. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to change the User Language. Press the “**PLAY/PAUSE/PWR ON-OFF**” button  to select the new **Language** and return to the **SETTINGS** Menu.



Sync Lyrics

Karaoke-type feature that displays the lyrics of a song on the OLED screen during Playback.

1. In the **SETTINGS** Menu, press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **Sync Lyrics** icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **SYNC LYRICS** Mode.



2. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to **ENABLE**, or **DISABLE** the **Sync Lyrics** feature. Press the “**PLAY/PAUSE/PWR ON-OFF**” button  to save the selection and return to the **SETTINGS** Menu.



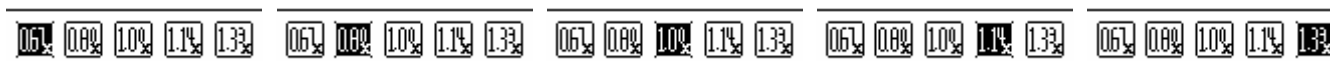
Playback Speed

The speed at which you listen to an audio file can be increased, or decreased. Playback speeds can be set to 0.67x, 0.8x, 1.0x, 1.14x and 1.33x.

1. In the **SETTINGS** Menu, press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **Playback Speed** icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **Playback Speed** Menu.



2. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to switch between the 5 **Playback Speed** settings: **0.67x** – **0.8x** – **1.0x** – **1.14x** – **1.33x**. Press the “**PLAY/PAUSE/PWR ON-OFF**” button  to select the **Playback Speed** and return to the **SETTINGS** Menu.



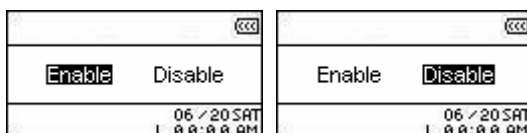
FM Reset

Resets the saved Radio stations, so the next time you enter the **RADIO** Mode the **T.sonic™ 630** will automatically scan and save the 20 strongest Radio station signals.

1. In the **SETTINGS** Menu, press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the **FM Reset** icon , then press the “PLAY/PAUSE/PWR ON-OFF” button  to enter the **FM RESET** Mode.



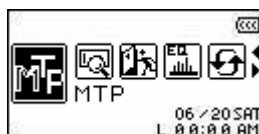
2. Press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select **YES**, or **NO** and press the “PLAY/PAUSE/PWR ON-OFF” button  to confirm the selection and return to the **SETTINGS** Menu.



Music Transfer Mode

If you want to buy and play WMA-DRM10 (only) music files, or you are using Windows Media Player 10 you must choose the MTP (Media Transfer Protocol) Music Transfer Mode to transfer and synchronize music files between the computer and your **T.sonic™ 630**. If you are using a Mac, or Linux computer, please select the **USB** (WMA-DRM10 NOT supported) Music Transfer Mode.

1. In the **SETTINGS** Menu, press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the **Music Transfer Mode** icon , then press the “PLAY/PAUSE/PWR ON-OFF” button  to enter the **MUSIC TRANSFER** Mode.



2. Press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select **MTP**, or **USB** and press the “PLAY/PAUSE/PWR ON-OFF” button  to confirm the selection and return to the **SETTINGS** Menu.



3. When transferring files in the **MTP** Music Transfer Mode you will have the option of using two folders to store files, a **Music**, or **Data** Folder. All WMA and MP3 files should be transferred to the **Music** Folder, all other files to the **Data** Folder.
4. In the **USB** Mode (WMA-DRM10 NOT supported) you can drag and drop all files onto the drive letter that represents the **T.sonic™ 630**.

Playlist Manager

The Playlist manager is an easy way to manage your personal Playlist.

1. In the **SETTINGS** Menu, press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the **Playlist Manager** icon , then press the “PLAY/PAUSE/PWR ON-OFF” button  to enter the **PLAYLIST MANAGER** Mode.



2. Press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to **ENABLE**, **DISABLE**, or **RESET** your current **Playlist**. Press the “PLAY/PAUSE/PWR ON-OFF” button  to save the selection and return to the **SETTINGS** Menu.



3. Enabling the **Playlist Manager** feature will allow you to play your Playlist the next time you go into the **MUSIC** Mode.

About

Displays information about the **T.sonic™ 630**’s firmware version and memory capacity.

1. In the **SETTINGS** Menu, press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the **About** icon , then press the “PLAY/PAUSE/PWR ON-OFF” button  to display the **ABOUT** information on the OLED screen.



Time Settings

The **T.sonic™ 630** has Advanced TIME features. The **TIME Settings** Menu contains the features that can be customized to your preferences including, an **RTC (Real Time Clock)**, **World Time** and **DST (Daylight Saving Time)**.

Real Time Clock (RTC)

The **T.sonic™ 630**'s RTC displays the local date and time, both of which can be adjusted.

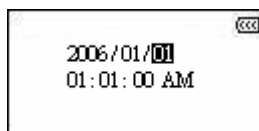
1. In the **SETTINGS** Menu, press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **TIME Settings** icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **TIME Settings** Menu.



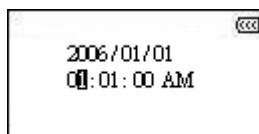
2. In the **TIME Settings** Menu, press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **RTC** icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **RTC Mode**.



3. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to switch between the Month, Day and Year. Press the “**Volume Up**” button , or “**Volume Down**” button  to change the date.



4. Press the “**Next-Fast Forward**” button  to advance to the **RTC** Time setup.
5. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to switch between the hour and minute. Press the “**Volume Up**” button , or “**Volume Down**” button  to change the time.



6. Press the “**PLAY/PAUSE/PWR ON-OFF**” button  to confirm the new date and time and return to the **TIME Settings** Menu.

World Time

The **T.sonic™ 630** has the ability to display the local time for different time zones; this is a handy feature if you are traveling.

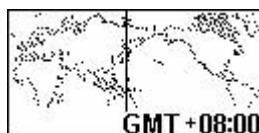
1. In the **SETTINGS** Menu, press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **TIME Settings** icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **TIME Settings** Menu.



2. In the **TIME Settings** Menu, press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **World Time** icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **WORLD TIME** Mode.



3. Enabling the **World Time** feature will open the Time Zone setup screen.



4. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **Time Zone** you are in.
5. Press the “**PLAY/PAUSE/PWR ON-OFF**” button  to confirm the new time and return to the **TIME Settings** Menu.

Daylight Saving Time (DST)

The **T.sonic™ 630** can be setup to enable Daylight Saving Time, so the official local Summer and Winter times are displayed.

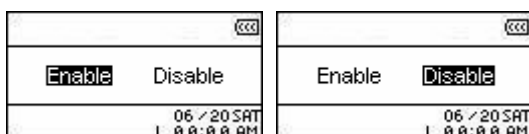
1. In the **SETTINGS** Menu, press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **TIME Settings** icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **TIME Settings** Menu.



2. In the **TIME Settings** Menu, press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **DST** icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **DST Mode**.



3. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to **ENABLE**, or **DISABLE** the **DST** feature and press the “**PLAY/PAUSE/PWR ON-OFF**” button  to confirm the selection and return to the **TIME Settings** Menu.



4. Enabling the **Daylight Saving Time** feature will automatically adjust the **T.sonic™ 630**'s Clock by plus, or minus one hour depending on the time of year and the time zone you are in.

Advanced RECORD Settings

The **T.sonic™ 630** has Advanced Recording features. The **RECORD Settings** Menu contains the advanced Recording features that can be customized to your preferences including, **REC Quality**, **REC Environment**, **REC Input Device**, **VAD (Voice Activation Detection)** and **Preset REC**.

REC Quality

The quality of an audio recording can be set to **Low** (8,000Hz), **Average** (16,000Hz), **Medium** (22,000Hz), **Good** (32,000Hz), or **High** (44,000Hz), but the higher you set the Recording Quality the greater the memory space required to save the resulting WAV file.

1. In the **SETTINGS** Menu, press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the **REC Settings** icon , then press the “PLAY/PAUSE/PWR ON-OFF” button  to enter the **REC Settings** Menu.



2. In the **REC Settings** Menu, press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the **REC Quality** icon , then press the “PLAY/PAUSE/PWR ON-OFF” button  to enter the **REC QUALITY** Mode.



3. Press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to switch between the 5 Recording Quality settings: **Low** – **Avg** – **Med** – **Good** – **High**. Press the “PLAY/PAUSE/PWR ON-OFF” button  to select the **REC Quality** level and return to the **REC Settings** Menu.



Record Sound	Sample rate	Channels*	1GB	2GB	4GB
	Low (8KHz)	1 (stereo/mono)	32/64 hrs	64/128 hrs	128/256 hrs
	Avg (16KHz)	1 (stereo/mono)	16/32 hrs	32/64 hrs	64/128 hrs
	Med (22KHz)	1 (stereo/mono)	12/24 hrs	24/48 hrs	48/96 hrs
	Good (32KHz)	1 (stereo/mono)	8/16 hrs	16/32 hrs	32/64 hrs
	High (44KHz)	1 (stereo/mono)	6/12 hrs	12/24 hrs	24/48 hrs

- ❖ If not enough memory space is available, or the battery power is too low, the **T.sonic™ 630** cannot support the maximum recording capacity as outlined in the above table.
- ❖ The closer you move the **T.sonic™ 630**'s Microphone to the source of the sound the higher the quality of the recording.
- ❖ **RADIO** Recordings are recorded in Stereo. **MIC** Recordings are recorded in Mono. **Line-In**

Recordings are recorded in Stereo, or Mono depending on the Line-In device that is used.

REC Environment

Sets the sensitivity of the **T.sonic™ 630**'s Built-in Microphone, so you can record a Memo (record a person speaking), or Meeting (record a group speaking).

1. In the **SETTINGS** Menu, press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the **REC Settings** icon , then press the “PLAY/PAUSE/PWR ON-OFF” button  to enter the **REC Settings** Menu.



2. In the **REC Settings** Menu, press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the **REC Environment** icon , then press the “PLAY/PAUSE/PWR ON-OFF” button  to enter the **REC ENVIRONMENT** Mode.



3. Press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select **MEMO**, or **MEETING** and press the “PLAY/PAUSE/PWR ON-OFF” button  to confirm the selection and return to the **REC Settings** Menu.



REC Input Device

Select between the **MIC (Built-In Microphone)**, **Ext MIC (External Microphone)** or **LINE-IN** (e.g. CD Player) as the Audio Recording method used by the **T.sonic™ 630**.

1. In the **SETTINGS** Menu, press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the **REC Settings** icon , then press the “PLAY/PAUSE/PWR ON-OFF” button  to enter the **REC Settings** Menu.



2. In the **REC Settings** Menu, press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the **REC Input Device** icon , then press the “PLAY/PAUSE/PWR ON-OFF” button  to enter the **REC INPUT DEVICE** Mode.



3. Press the “Next-Fast Forward” button , or “Back-Fast Rewind” button  to select the **MIC (Microphone)**, **Ext MIC (External Microphone)** or **LINE-IN** (e.g. CD Player) as the audio recording method and press the “PLAY/PAUSE/PWR ON-OFF” button  to confirm the selection and return to the **REC Settings** Menu.

CCC Mic Ex-Mic Line-In 06 / 20 SAT L 00:00 AM	CCC Mic Ex-Mic Line-In 06 / 20 SAT L 00:00 AM	CCC Mic Ex-Mic Line-In 06 / 20 SAT L 00:00 AM
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VAD (Voice Activation Detection)

VAD allows the **T.sonic™ 630** to make gapless audio recordings. This means the player will only begin recording when it detects the subject is speaking, if the person(s) pauses, or stops speaking the **T.sonic™ 630** will stop recording until the person(s) starts speaking again. This allows you to make complete and very easy to listen to recordings.

1. In the **SETTINGS** Menu, press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **REC Settings** icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **REC Settings** Menu.



2. In the **REC Settings** Menu, press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **VAD** icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **VAD** Mode.



3. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **ENABLE**, or **DISABLE** option and press the “**PLAY/PAUSE/PWR ON-OFF**” button  to confirm the selection and return to the **REC Settings** Menu.



Preset REC

Set a date and time for the **T.sonic™ 630** to automatically make an Audio Recording from the **Radio**, or using its **Built-in Microphone**, or an **External Microphone**.

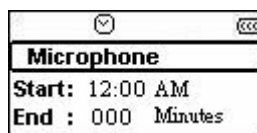
1. In the **Settings** Menu, press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **Preset REC** icon , then press the “**PLAY/PAUSE/PWR ON-OFF**” button  to enter the **PRESET REC** Mode.



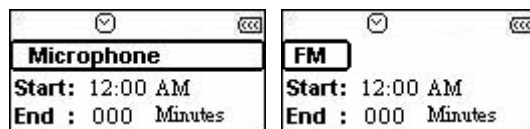
2. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **ENABLE**, or **DISABLE** option and press the “**PLAY/PAUSE/PWR ON-OFF**” button  to confirm the selection.



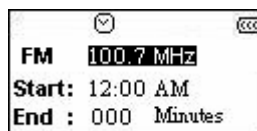
3. Enabling the **Preset REC** feature will open the **Preset REC** setup screen.



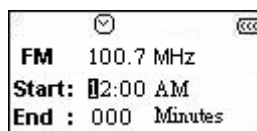
4. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to select the **FM (Radio)**, **MIC (Built-in Microphone)**, or **Ext MIC (External Microphone)** as the audio recording method and press the “**PLAY/PAUSE/PWR ON-OFF**” button  to confirm the selection.



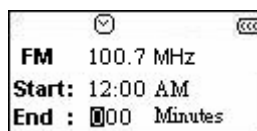
5. If you select the **FM (Radio)** option as the **Preset REC** recording method you must select the FM frequency that you want the **T.sonic™ 630** to automatically record. Press the “**Volume Up**” button , or “**Volume Down**” button  to adjust the FM frequency by 0.1 MHz each time until you reach the desired frequency. Alternatively, you can Press and Hold the “**Volume Up**” button , or “**Volume Down**” button  to quickly auto-scan to the desired frequency.



6. Press the “**PLAY/PAUSE/PWR ON-OFF**” button  to advance to the **Preset REC** time setup.
7. Input the time you want the **T.sonic™ 630** to make the automatic recording. Press the “**Next-Fast Forward**” button , or “**Back-Fast Rewind**” button  to switch between the hour and minute. Press the “**Volume Up**” button , or “**Volume Down**” button  to change the time.



8. Press the “**PLAY/PAUSE/PWR ON-OFF**” button  to advance to the **Preset REC** time Stop Recording setup.



9. Press the “**PLAY/PAUSE/PWR ON-OFF**” button  to confirm the date and time selections and return to the **Preset REC** Menu.

Driver Installation

Driver Installation for Windows® Me, 2000 and XP

No drivers are required. These Windows® Operating Systems have built-in drivers to support the **T.sonic™ 630**. Plug your **T.sonic™ 630** into an available USB port and Windows® will install the necessary files. A new **Removable Disk** drive with a newly assigned drive letter will appear in the **My Computer** window.

Driver Installation for Mac™ OS 10.0, or Later

No drivers are required. Plug your **T.sonic™ 630** into an available USB port and your computer will automatically detect it.



Figure 4. Mac Driver Installation

Driver Installation for Linux™ Kernel 2.4, or Later

No drivers are required. Plug your **T.sonic™ 630** into a USB port and mount it.

1. First create a directory for the **T.sonic**.

Example: `mkdir /mnt/T.sonic`

2. Then, mount the **T.sonic**.

Example: `mount -a -t msdos /dev/sda1 /mnt/T.sonic`

1. When the **T.sonic™ 630** is connected to a computer it is locked into transferring files. You will not be able to play or record any music at this time. Please disconnect your **T.sonic™ 630** from the computer when you want to use the player.



2. **NEVER** format your **T.sonic™ 630** in Windows.

3. Audio files (MP3/WMA/WMA-DRM10/WAV) must be organized, so that they are no more than 4 folder levels away from the [/Root.DIR/] root directory.

4. The **T.sonic™ 630** is limited to 128 characters for a file name.

Connecting to a Computer



If you want to buy and play WMA-DRM10 (only) music files, or you are using Windows Media Player 10 you must choose the MTP (Media Transfer Protocol) Music Transfer Mode to transfer and synchronize music files between the computer and your T.sonic™ 630.

1. Plug the small end of the Mini USB to USB A-Type cable into the Mini USB connector on the **T.sonic™ 630** and plug the large end of the cable into an available USB port on your desktop, or notebook computer. When connected to a computer the **T.sonic™ 630**'s rechargeable Li-ion battery will begin charging and the **T.sonic™** can only be used for transferring files.

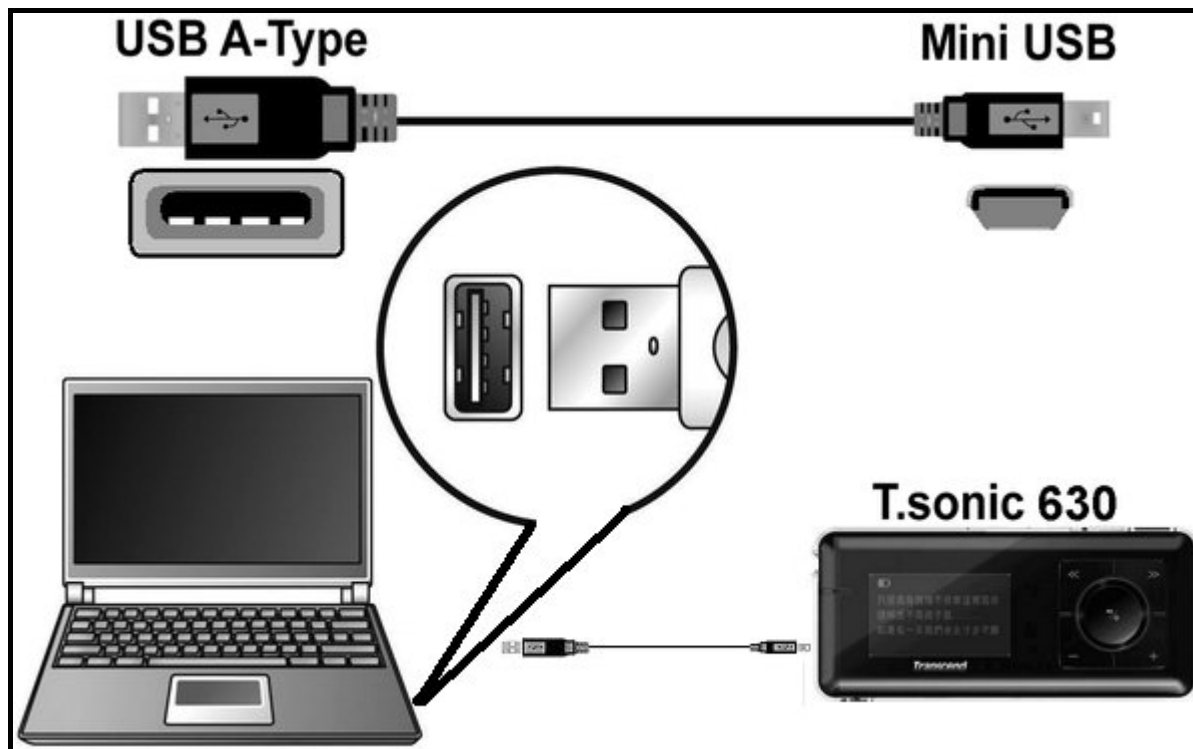


Figure 5. Connecting to a Computer

Download and Upload Music and other Files



If you want to buy and play WMA-DRM10 (only) music files, or you are using Windows Media Player 10 you must choose the MTP (Media Transfer Protocol) Music Transfer Mode to transfer and synchronize music files between the computer and your T.sonic™ 630.

If you want to use your T.sonic™ 630 to listen to music other than the Radio you must download MP3, WMA, or WMA-DRM10 music files onto the Player.

1. If you are using a Windows OS, please find out what version of Windows Media Player the computer is running before connecting your T.sonic™ 630. If you are using Windows Media Player 10, or you want to listen to WMA-DRM10 music, please see the **Music Transfer Mode** section in SETTINGS.
2. Plug the small end of the Mini USB to USB A-Type cable into the T.sonic™ 630's Mini USB port and plug the large end of the cable into an available USB port on a computer. When connected to a computer the unit's rechargeable Li-ion battery will begin charging and the T.sonic™ 630 can only be used for transferring files.

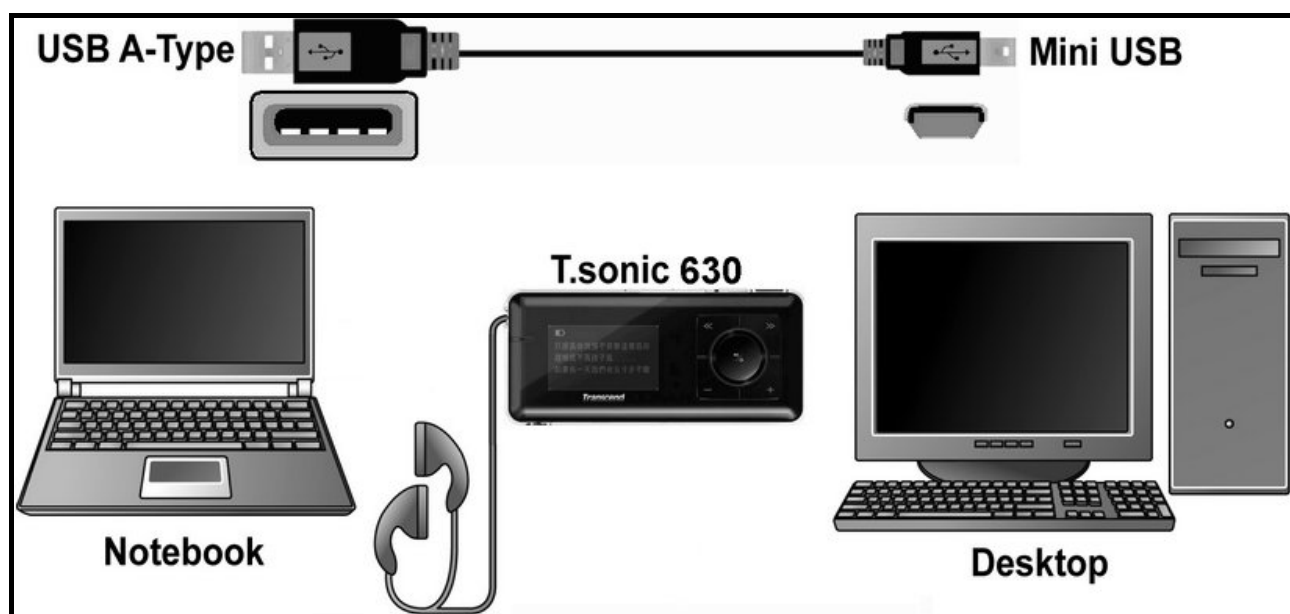


Figure 6. Mini USB Cable and Connecting to a Computer

- When connected to a computer the **T.sonic™ 630**'s screen will display a **"READY"** message, indicating that files can be loaded onto the player. If you are using Windows® a new **Removable Disk** drive with a newly assigned drive letter representing the **T.sonic™ 630** will appear in the **My Computer** window.

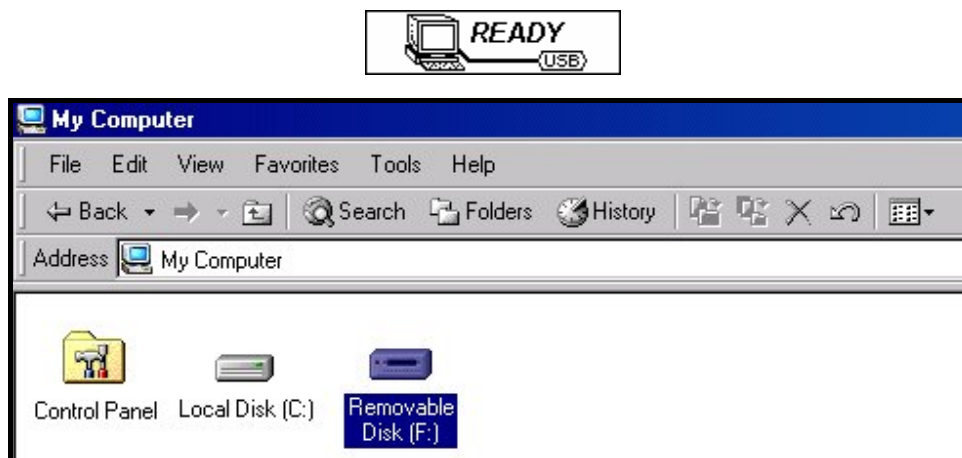


Figure 7. *F: is an example drive letter, the letter in your "My Computer" window may differ

- In the **MTP (Media Transfer Mode)** use Windows Media Player 10 to transfer and synchronize your **WMA-DRM10** Music files with the **T.sonic™ 630**'s **MTP Folder**, all other files should be dropped on to the **Data Folder**. In the **USB Mode** (WMA-DRM10 NOT supported) you can drag and drop your MP3, WMA, or other files and folders onto the **T.sonic™ 630**'s corresponding Removable Disk drive letter, at this stage the players' screen will display a **"WRITE"** message indicating that the files are being transferred to the **T.sonic™**. When the players' screen returns to the **"READY"** message you will know that the files have successfully transferred.



- If you choose to upload files, or folders to the computer, the players' screen will display a **"READ"** message indicating that the files are being transferred to the Computer. When the players' screen returns to the **"READY"** message you will know that the files have successfully transferred.



- Always disconnect the **T.sonic™** from a computer by selecting and following the instructions for the **"Safely Remove Hardware"** icon that can be found on the Windows® Toolbar at the bottom of the computer screen.



Figure 8. Safely Remove Hardware

Disconnecting from a Computer



Before removing your T.sonic™ 630, always ensure the OLED Display is not in the *READ/WRITE* status, otherwise your files or T.sonic™ 630 may be damaged.

Removing the T.sonic™ 630 in Windows® Me, 2000 and XP

1. Select the **Hardware**  icon on the system tray.
2. The **Safely Remove Hardware** pop-up window will appear. Select it to continue.



Figure 9. Safely Remove Hardware

3. A window will appear stating “The ‘USB Mass Storage Device’ device can now be safely removed from the system.” Unplug the T.sonic™.



Figure 10. Safe to Remove Hardware

Removing the T.sonic™ 630 in Mac™ OS 10.0, or Later

Drag and drop the Disk icon corresponding to your T.sonic™ 630 into the trashcan. Then unplug your T.sonic™ 630 from the USB port.

Remove the T.sonic™ 630 in Linux™ Kernel 2.4, or Later

Execute `umount /mnt/ T.sonic` to un-mount the device. Then unplug your T.sonic™ 630 from the USB port.

T.sonic™ Utility Software

The **T.sonic™ 630** comes with some very useful bundled software that can increase your productivity. Before using the **T.sonic™ Utility** program, please read the following sections carefully.

- ❖ The **T.sonic Utility** is not supported on Mac™, or Linux™ Operating Systems.
- ❖ To use the **T.sonic Utility**, you must log in to the Windows® OS with **Administrator** rights.

Installing the T.sonic Utility Program

1. Put the Software CD into the CD-ROM (Auto-Run supported). Click on the “**T.sonic 630 Utility**” button.



Figure 11. T.sonic Utility Program

2. Choose your setup language. Click on the “**OK**” button to continue.



Figure 12. Choose a language

3. The “InstallShield Wizard” window appears. Click on the “Next” button to continue. The InstallShield Wizard will guide you through the **T.sonic 630 Utility** Program installation process.

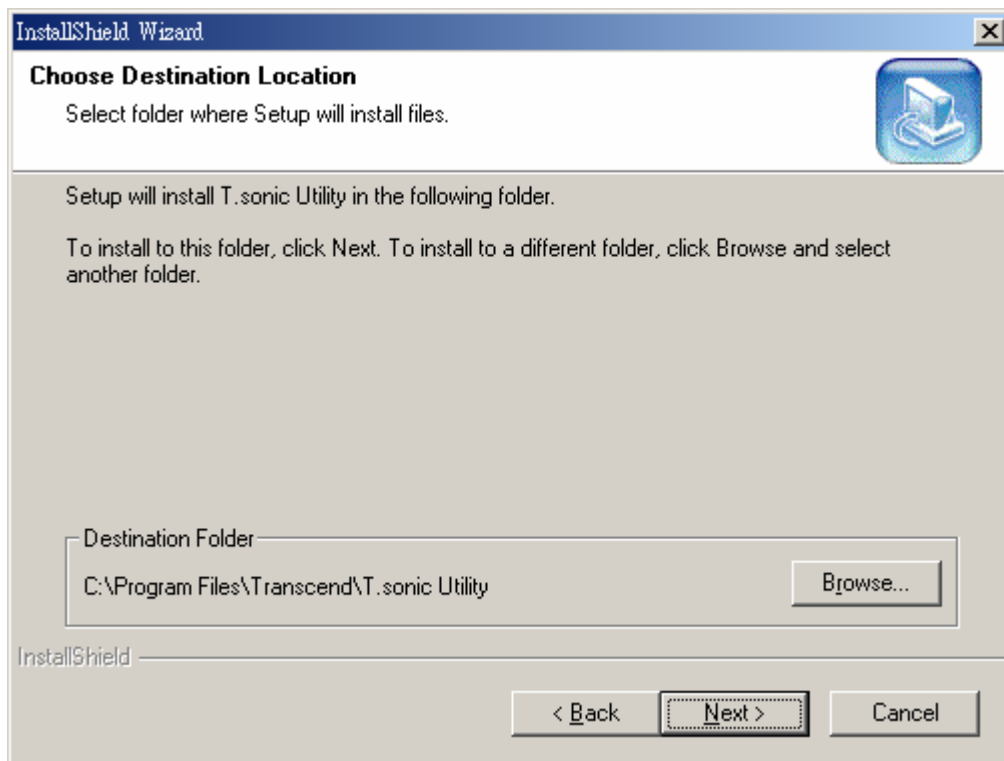


Figure 13. T.sonic Utility Program InstallShield Wizard

4. When the **T.sonic 630 Utility** is finished installing, click on the “Finish” button to exit the wizard.

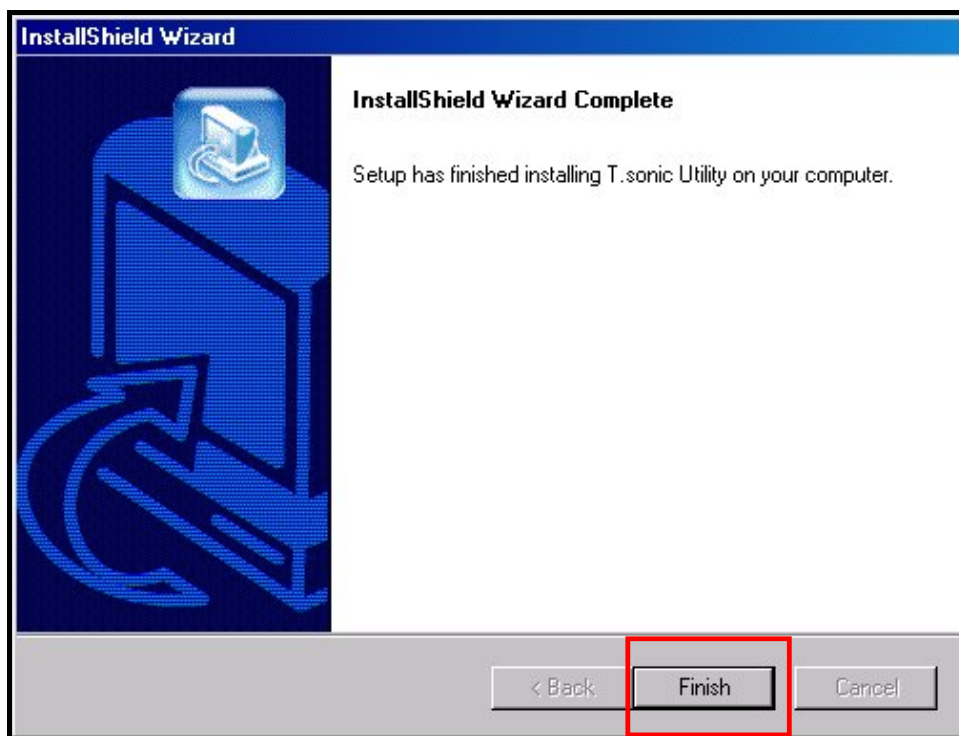


Figure 14. Installation complete

5. The **T.sonic Utility** Software Program can be found in: **Start > Programs >> T.sonic Utility**.

Using the T.sonic Utility Program

The **T.sonic Utility*** provides you with several software options including a:

- **PC-Lock Function**
- **Boot-Up Function**
- **Partition & Security Function**
- **Recovery Function**



Figure 15. T.sonic Utility Menu

❖ To use the **T.sonic Utility**, you must log in to the Windows® OS with **Administrator** rights.

PC-Lock Function

When the **PC-Lock Function** is enabled, you can use your **T.sonic™** as a key to lock your computer protecting it from use by others.

- ❖ The PC-Lock function is not supported in the Mac™ or Linux™ Operating Systems.
- ❖ To use the PC-Lock function, you must log in to the Windows OS with **Administrator** rights.

PC-Lock Function for Windows® Me, 2000 and XP

1. Click on the “**PC-Lock**” button in the “**T.sonic Utility**” window.



Figure 16. T.sonic Utility PC-Lock

2. The “**PC-Lock Settings**” window will appear. Select the “**Enable PC-Lock**” option.

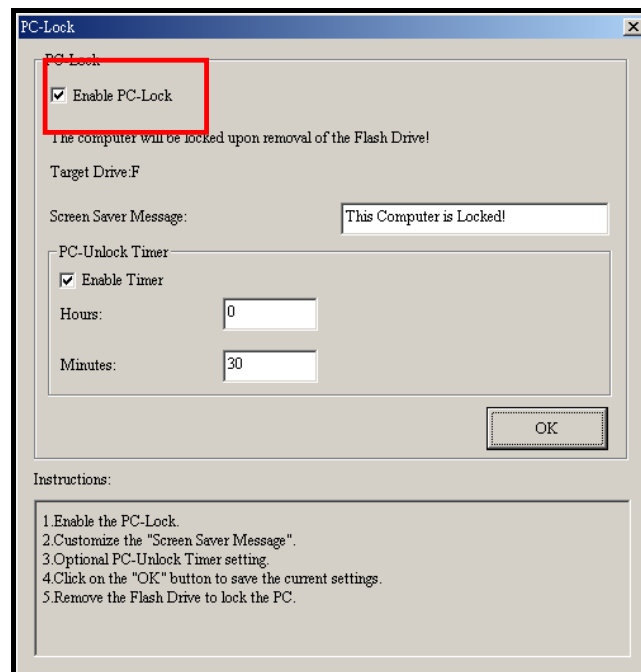


Figure 17. Enable PC-Lock

3. After selecting the **Enable PC-Lock** you can type the **Text** to be displayed on the screen while the computer is locked.

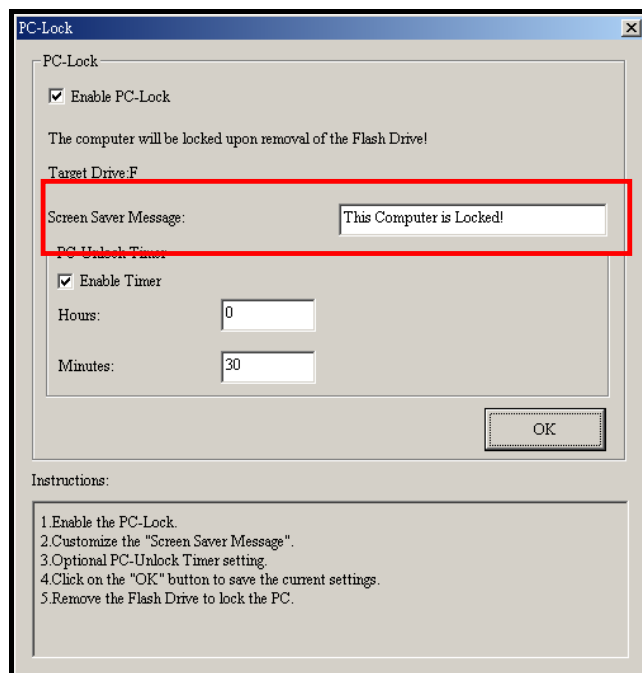


Figure 18. Screen Saver Text

4. If you want to set a timer to automatically unlock your computer select the **"Enable Timer"** option. Input the Lock Period in **Hours** and **Minutes**, after the time elapses your computer is automatically unlocked.

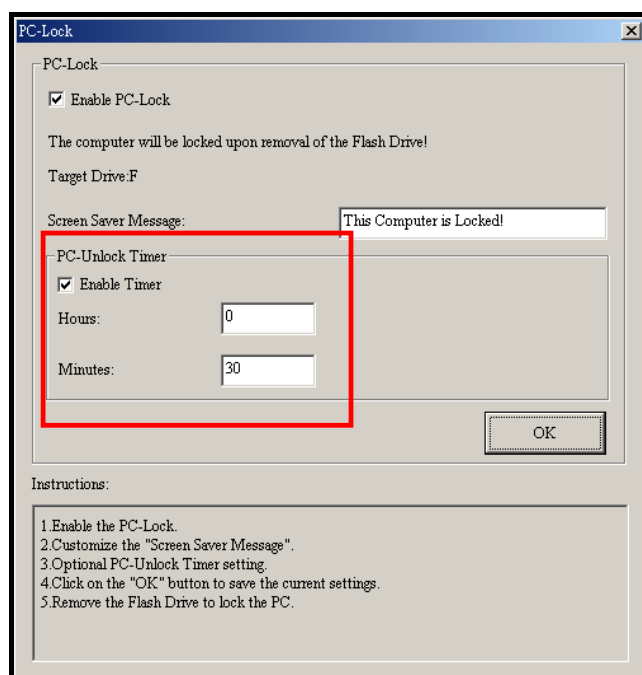


Figure 19. PC-Lock Timer

5. Click on the “OK” button to start the **PC-Lock**.

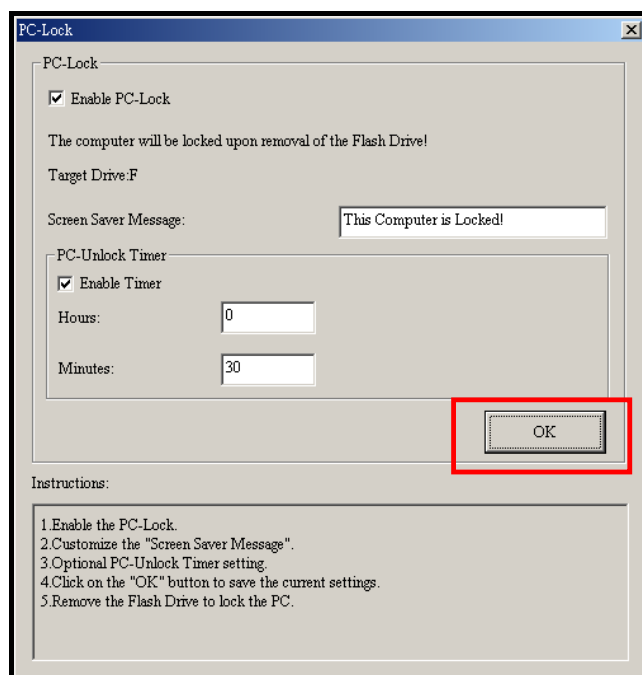


Figure 20. Enable PC-Lock

Lock Your Computer

After the **PC-Lock** function is enabled, your computer will be locked whenever you remove your **T.sonic™**. When your computer is locked, the screen will display the **Text** screen saver.

Unlock Your Computer

To unlock the computer, you must re-insert your **T.sonic™**. The locked status on the screen will disappear and you are now free to use your computer. The computer's locked status will also end automatically after the specified lock period timer has expired.

Boot-Up Function

If you are using the Windows® 98SE* Operating Systems the **T.sonic™** can be configured to act as an MS-DOS Boot Disk. After you setup the **T.sonic™** you can use it to boot-up your computer, allowing you to run MS-DOS programs. This does not make the **T.sonic™** a Rescue Disk for Windows, nor does it put Windows Startup files onto your **T.sonic™**. After booting with the **T.sonic™**, you must start Windows from your hard drive, or a previously created Rescue Disk.

- ❖ To use the Boot-Up function, you must log in to the Windows OS with **Administrator** rights.
- ❖ A maximum capacity of 512MB is reserved for the **Boot-Up** disk sector in the **USB-HDD** (Windows® 98SE only) formats.

System Requirements for the Boot-Up Function

- A desktop or notebook computer that supports **USB-HDD** (Windows® 98SE only) as the **First Boot Device** in its **BIOS**.
- A computer running Windows® 98SE.
- Any anti-virus applications that may be running in the background must be turned off.

Enabling the Boot-Up Function

1. Click on the “**Boot-Up**” button in the “**T.sonic Utility**” window.



Figure 21. T.sonic Utility Boot-Up

2. Click on the “**OK**” button to make the **T.sonic™** a Bootable **USB-HDD** device. The **T.sonic™** **USB-HDD** Boot-Up device must match the **First Boot Device** setting in the computer’s **BIOS**.

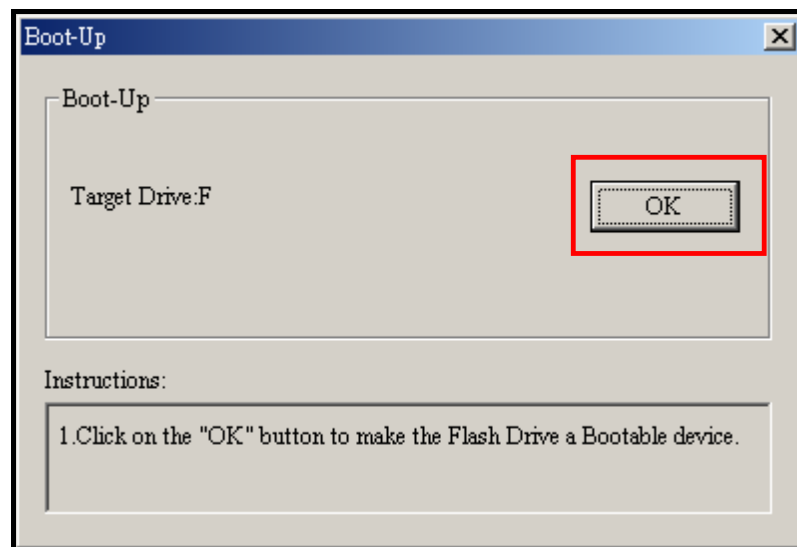


Figure 22. Create Bootable device

The **T.sonic™** and your computer system are now set up, so your **T.sonic™** can be used to Boot-Up the computer. If you are using the **T.sonic™** to Boot-Up your computer the disk will be assigned a drive letter on the computer.

- ❖ Part of the **Boot-Up device** setup process involves Boot-Up files being placed on the **T.sonic™**, please do **NOT** delete, or move these files, otherwise the **T.sonic™** will not be able to function as a startup disk.
-

Partition & Security Function

Enabling this feature allows you to setup a secure area on the **T.sonic™** to protect your personal information with a Private Password. You can partition the **T.sonic™** into Public and Private Password protected areas. Data and information in the Private Area is kept secure and can only be accessed by logging onto the **T.sonic™** using the correct password.

- ❖ The Partition & Security function is not supported in the Mac™ or Linux™ Operating Systems.
- ❖ To use the Partition & Security function, you must log in to the Windows OS with **Administrator** rights.

Enable the Security Function in Windows® Me, 2000 and XP

1. Click on the “**Partition**” button in the “**T.sonic Utility**” window.



Figure 23. T.sonic Utility Partition

2. The “**Partition**” window will appear. Partition the **T.sonic™** into a **Public** and **Private** partition by using the mouse to move the disk partition bar on the slider until the **Public Disk Area** and **Private Disk Area** have the desired memory capacity sizes.

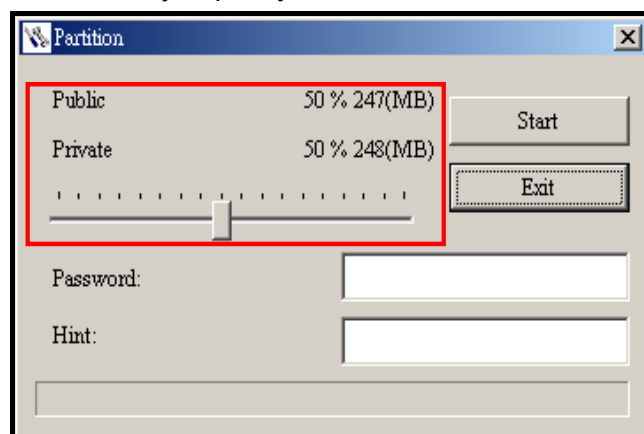


Figure 24. Create a Partition

3. Input a “**Password**” and a “**Password hint**” (a reminder, should you forget your password). Click on the “**Start**” button to complete the **Partition & Security** setup.

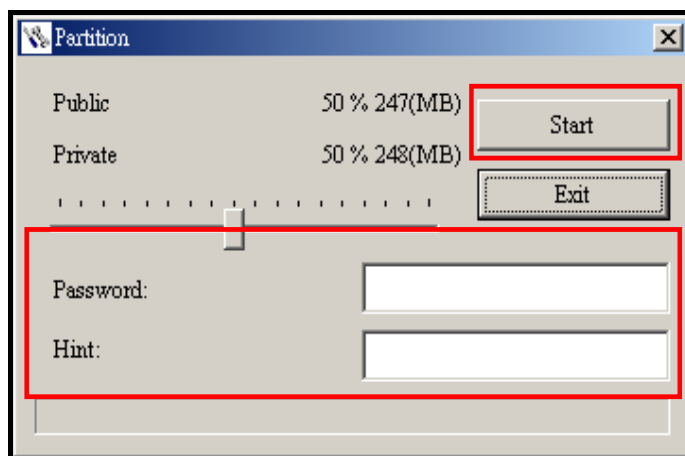


Figure 29. Password and Hint

Use the T.sonic™ Security Features

1. Click on the “**Login/Logout**” button in the “**T.sonic Utility**” window.



Figure 25. T.sonic Utility Login/out

2. The “**Login/out**” window will appear. Input your **Password** and click on the “**Login**” button to enter the T.sonic™ Security area.

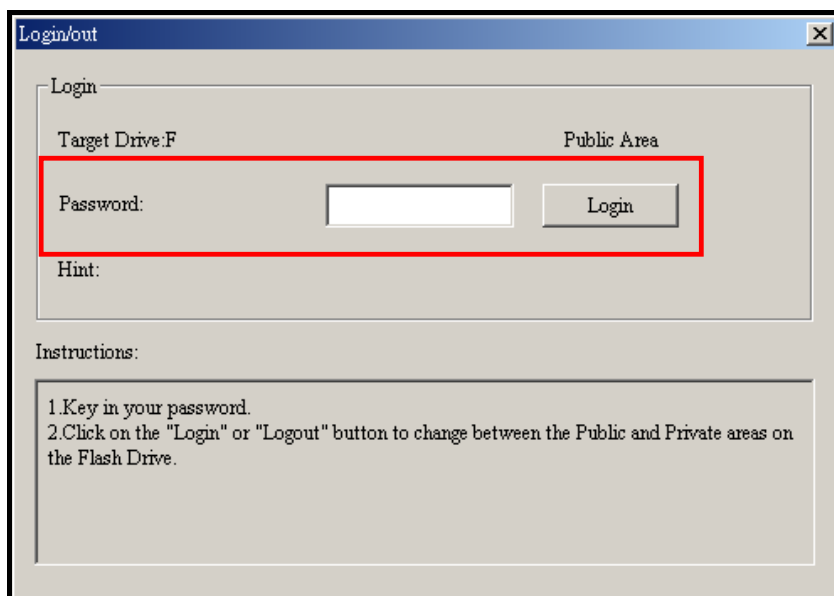


Figure 26. Enter your password

3. When you are finished using the Secure Area and no data is being transferred between the T.sonic™ and the computer, click on the “**Logout**” button to Log Out of the **Private Partition**.



Figure 27. T.sonic Utility Logout

Changing your Password

1. Click on the “**Password**” button in the “**T.sonic Utility**” window.



Figure 28. T.sonic Password

2. The “**New Password**” window will appear. Input your current “**Password**,” a “**New Password**,” “**Confirm Password**” and a “**New Password Hint**” (a reminder, should you forget your password). Click on the “**OK**” button to complete the **New Password** setup.

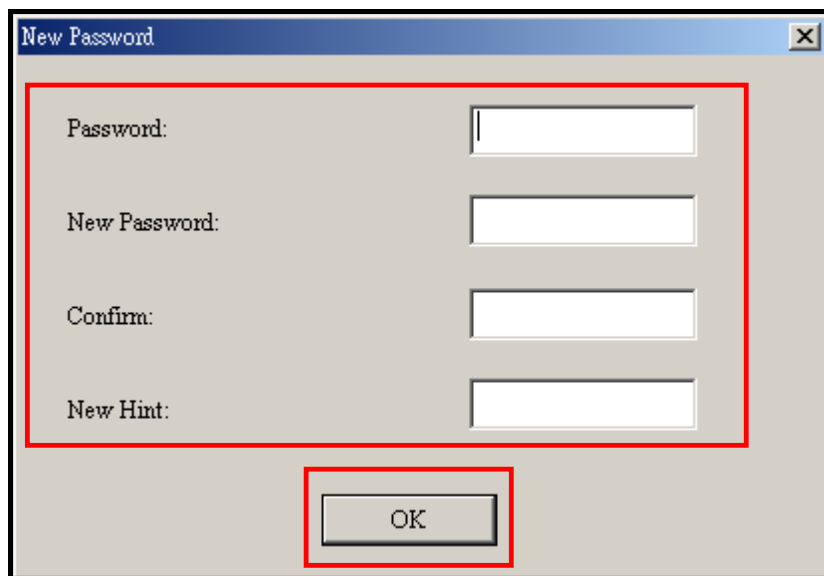


Figure 29. Change Password

Forgotten your Password

If you forget your password use the password hint to try and remember your password. However, if the hint does not work you can use the **Partition** Function to repartition your **T.sonic™**. Any data that you saved on the **T.sonic™**'s unprotected Public Disk Partition should be backed-up before re-partitioning the **T.sonic™**.



WARNING! Repartitioning the Disk will erase all of the data in the Private Area of your **T.sonic™**.

Restoring Factory Defaults

If your **T.sonic™ 630** ever stops working properly, try Powering it **OFF** and **ON** a number of times. Alternatively you can try to solve the problem by “**Resetting**” the unit. If neither of these options solves the problem, you can use the **T.sonic Utility** program’s **Recovery** Function to restore the **T.sonic™ 630**’s default factory settings. Before using the **Recovery** program, please read the following sections carefully.



Running the Recovery function will erase all of the data on your T.sonic™ 630.

- ❖ The Recovery function is not supported on Mac™, or Linux™ Operating Systems.
- ❖ To use the Recovery function, you must log in to the Windows® OS with **Administrator** rights.
- ❖ Running the Recovery program will erase all of the data on your **T.sonic™ 630**.
- ❖ If there are bad memory blocks on the Flash memory chip the size of the **T.sonic™ 630**’s memory will be smaller after running the Recovery program.

Recover the T.sonic™ 630 in Windows® Me, 2000 and XP

Plug the **T.sonic™** into an available USB port on your desktop, or notebook computer.

1. The “**Found New Hardware**” dialogue box will appear.

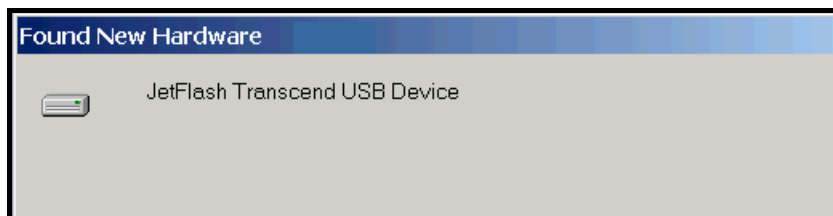


Figure 30. Found New Hardware

2. Click on the  button located on the taskbar and select: **Programs > T.sonic Utility >> Recovery** to run the **T.sonic 630 Recovery** program.
3. Click on the “**Start**” button to Recover your **T.sonic™ 630**.



Selecting this Option will erase all of the data on your T.sonic™ 630.

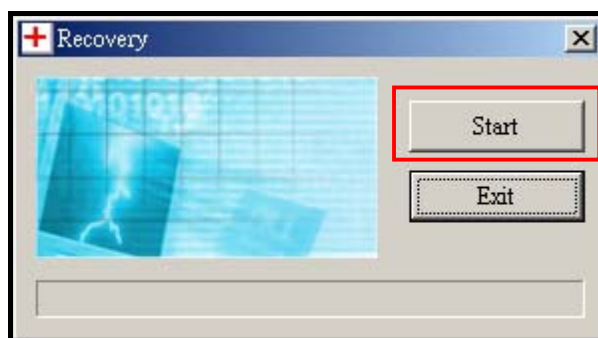


Figure 31. Recovery Progress

Troubleshooting

If a problem occurs with your **T.sonic™ 630**, please first check the information listed below before taking your **T.sonic™ 630** for repair. If you are unable to remedy a problem from the following hints, please consult your dealer, service center, or local Transcend branch office. We also have FAQ and Support services on our websites.

Software CD cannot auto-run in Windows®

Go to the **Device Manager** in the **Control Panel** and enable the **Auto-Insert** function for the CD-ROM drive. Alternatively, you can manually run the “**T.sonic.EXE**” file on the software CD.

Operating system cannot detect the T.sonic™ 630

Check the following:

1. Is your **T.sonic™ 630** properly connected to the USB port? If not, unplug it and plug it in again.
2. Is your **T.sonic™ 630** connected to the Mac keyboard? If yes, unplug it and plug it into an available USB port on your Mac Desktop.
3. Is the USB port enabled? If not, refer to the user's manual of your computer (or motherboard) to enable it.

Cannot Power ON

Check the following:

1. Is the **T.sonic™ 630** connected to your computer? If yes, unplug it.
2. Is the **LOCK** switch set to “**LOCK**”? If yes, set it to the “**OFF**” position.
3. Is the battery out of power? If yes, please recharge the battery.

Cannot download MP3, WMA, WMA-DRM10, or WAV files to the T.sonic™ 630

As required, uninstall and re-install the driver. If this doesn't work, try **Resetting** the unit and if this fails, please see the “**Restoring Factory Defaults**” section to recover your **T.sonic™ 630**.

Buttons aren't working

Is the **LOCK** switch set to “**LOCK**”? If yes, set it to the “**OFF**” position.

Cannot hear track playback

1. Have you downloaded any music files onto the **T.sonic™**? If no, then you must first do so from your computer or the Internet. (Only Mpeg I Layer 3 and WMA files compressed at a rate of 32Kbps–320Kbps are supported.)
2. Are the earphones properly connected to the earphones jack? If not, reconnect them.
3. Is the volume loud enough? If not, increase the volume level until the music can be heard.

Track name does NOT display correctly on the screen

1. The default language of the **T.sonic™** is English. Please set the language option first.
2. ID3 tag information has display priority on the screen of the **T.sonic™**. You could modify the ID3 tag by using Windows Media Player or Winamp.
3. If the ID3 tag is empty, just the file name will be displayed on the screen.

Cannot enter the RECORD Mode

To make sure the recorded file will not be lost, two safety mechanisms are provided.

1. If the remaining battery capacity is less than 10%, you cannot enter the **RECORD** Mode.
2. During recording, if the remaining battery capacity goes **below 10%** the **T.sonic™** will automatically save the recording.

Track playback sounds intermittent

Plug the earphones into the earphones jack again to make sure they are properly connected.

T.sonic™ Powers OFF automatically

T.sonic™ features a **SLEEP Mode**, which acts as a **Power Saving** feature. You can preset your **T.sonic™** to Power OFF automatically after 15, 30, or 60 minutes. Please refer to the “[Sleep](#)” section in **SETTINGS**.

T.sonic™ just isn't working properly

If your **T.sonic™** ever stops working properly, or locks up, try Powering it ON and OFF a few times, if this does not correct the problem you can **Reset** the unit by pressing the “**Reset**” button  for 3 to 5 seconds. If all of these options fail you can restore your **T.sonic™** to its Default Factory Settings by using the “[Recovery Function](#).”

Cannot find the file that was just copied to the T.sonic™

Re-copy the file and refer to the “[Disconnecting from a Computer](#)” section to remove the **T.sonic™** after the copy process is completed.

A File that was just deleted still appears

Re-delete the file and refer to the “[Disconnecting from a Computer](#)” section to remove the **T.sonic™** after the delete process is completed.

T.sonic™ automatically removed from the operating system

This problem occurs when you press the “**Volume Down**” button  while your **T.sonic™** is still connected to a Computer USB port. Unplug your **T.sonic™** from the USB port and plug it back in again.

T.sonic™ cannot operate after it was formatted in Windows®

Formatting the T.sonic™ using the “Quick Format” or “Full Format” option in Windows® destroys the default format of the T.sonic™. To retrieve the default format, you must link to <http://www.transcendusa.com/> and download a Firmware Update for your T.sonic™.

How do I find out what Windows Media Player version I am using?

1. Open your Windows Media Player program.
2. Click on the “**Help**” menu and select the “**About Windows Media Player**” option.
3. The version of your Windows Media Player will be displayed on the computer screen.

Cannot listen to DRM music on my T.sonic™ 630?

1. The T.sonic™ 630 only supports WMA-DRM10 music files, is this the file type you are using?
2. Did you use the MTP “**Music Transfer Mode**” to transfer music to the T.sonic™ 630?

Sync Lyrics: Why can't I see the words of the song I am listening to?

For detailed Sync Lyrics instructions, please link to the FAQ section on our website <http://www.transcendusa.com/Support/FAQ/index.asp?axn=Detail&LangNo=0&FAQNo=402>

Specifications

• Size (L x W x H):	73 mm × 33 mm × 12.5 mm
• Weight:	30g (with Li-ion battery)
• Music Formats:	MP3 WMA and WMA-DRM10 (Subscription music)
• Recording Format:	ADPCM (WAV)
• Estimated Battery Life:	15 hours (fully charged battery)
• Compression Rates:	32Kbps to 320Kbps
• Data Retention:	Up to 10 years
• Erase Cycles:	≥ 100,000 times
• Signal-to-Noise Ratio:	≥ 90dB
• Certificates:	CE, FCC, BSMI
• Warranty:	2-years

Ordering Information

<i>Device Description</i>	<i>Memory Size</i>	<i>Transcend P/N</i>
T.sonic™ 630 MP3 Music Player	1GB	TS1GMP630
T.sonic™ 630 MP3 Music Player	2GB	TS2GMP630
T.sonic™ 630 MP3 Music Player	4GB	TS4GMP630

Transcend Limited Warranty

“Above and Beyond” is the standard we set ourselves for customer service at Transcend. We consistently position ourselves to be significantly above the industry norm, which is all part of our commitment to Customer Satisfaction.

All Transcend information, Inc. (Transcend) products are warranted and tested to be free from defects in material and workmanship and to conform to the published specifications. During the warranty period should your Transcend T.sonic™ 630 fail under normal use in the recommended environment due to improper workmanship or materials, Transcend will repair the product or replace it with a comparable one. This warranty is subject to the conditions and limitations set forth herein.

Duration of Warranty: The Transcend T.sonic™ 630 is covered by this warranty for a period of two (2) years from the date of purchase. Proof of purchase including the date of purchase is required to collect on the warranty. Transcend will inspect the product and decide whether to repair or replace it. Transcend reserves the right to provide a functional equivalent product, or a refurbished replacement product.

Limitations: This warranty does not apply to product failure caused by accidents, abuse, mishandling, improper installation, alteration, acts of nature, improper usage, or problems with electrical power. In addition, opening or tampering with the product casing, or any physical damage, abuse or alteration to the product's surface, including all warranty or quality stickers, product serial or electronic numbers will also void the product warranty. Transcend is not responsible for recovering any data lost due to the failure of a flash memory device. Transcend's T.sonic™ 630 must be used with devices that conform to the recommended industry standards. Transcend will not be liable for damages resulting from a third party device that causes the Transcend T.sonic™ 630 to fail. Transcend shall in no event be liable for any consequential, indirect, or incidental damages, lost profits, lost business investments, lost goodwill, or interference with business relationships as a result of lost data. Transcend is also not responsible for damage or failure of any third party equipment, even if Transcend has been advised of the possibility. This limitation does not apply to the extent that it is illegal or unenforceable under applicable law.

Disclaimer: The foregoing limited warranty is exclusive. There are no other warranties, including any implied warranty of merchantability or fitness for a particular purpose. This warranty is not affected in any part by Transcend providing technical support or advice.

Online Registration: To expedite the warranty service, please register your Transcend Product within 30 days of purchase.

Register online at <http://www.transcendusa.com/registration>

❖ The specifications mentioned above are subject to change without notice.

Transcend
Exceeding Your Expectations

Transcend Information, Inc.

www.transcendusa.com

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Glossary Icons



MUSIC: Select this icon to access your MP3, WMA and WMA-DRM10 music files.



RADIO: Select this icon to choose, save, listen to and record a Radio station.



RECORD: Select this icon to access the Audio Recordings you made.



Settings: Select this icon to customize the T.sonic's settings to your specific preferences.



Repeat: Select this icon to repeat a song, a section of a song, or all the songs in a folder.



Equalizer: Select this icon to choose the equalizer setting that matches the type of music you are listening to i.e. Rock, Pop, Jazz, Classical, Bass, or User defined.



REC Quality: Select this icon to choose a recording quality level for audio recordings made using the built-in microphone.



Screen Saver: Select this icon to customize the T.sonic's settings to your specific preferences.



Sleep: Select this icon to specify the time interval before the T.sonic Powers OFF due to inactivity.



PlayBack Speed: Select this icon to increase, or decrease the speed at which audio files play.



Playlist Manager: Select this icon to manage your playlist.



Contrast: Select this icon to adjust the brightness of the OLED display.



Language: Select this icon to choose the T.sonic's user language (default English).



Sync Lyrics: Select this icon to display the words of a song on the screen during playback.



FM Reset: Select this icon to reset all the radio stations that have been saved to channel numbers.



RTC: Select this icon to change the current date and time.



World Time: Select this icon to choose a world time zone.



About: Select this icon to see what firmware version the unit is currently using and the T.sonic's memory capacity.



REC Environment: Select this icon to set the sensitivity of recording audio from a person, or group.



REC Input Device: Select this icon to choose the method of recording: Built-in Microphone, or Line-In (external microphone, CD Player).



VAD: Voice Activation Detection, Select this icon to setup for gapless audio recordings.



Preset REC: Select this icon to preset the player to make an automatic audio recording.

Terminology

A-B repeat	2, 3
Function that allows a user to mark a designated section of a track for continuous replay.	
auto-scan	12, 27
Automatically-scan begins a search process that will continue until a recognized signal is arrived at.	
cable	2, 4, 7, 31, 32
Device that is used to connect one hardware device to another without a loss in function.	
CD-ROM	28, 35, 42
Compact Disk-Read Only Memory is a compact disk format that can store music, text and graphics.	
CH	12
A Channel is a frequency carrier on which transmissions are received e.g. radio, TV.	
Desktop	3, 42
This is a single user stationary computer running the Window [®] , Mac [™] , or Linux [™] Operating System.	
driver	4, 28, 37, 42
A software program that allows a hardware device to communicate with a computer operating system.	
Earphones	2, 5, 12
Accessory that plugs into a device and is used for listening to audio files.	
Equalizer	3, 6, 17, 18, 47
This function allows a user to change the way they hear a song by altering its frequency bands.	
FAQ	42
Frequently Asked Question.	
Flash	2, 3, 35
A rewritable type of solid-state memory storage.	
FM	3, 2, 3, 12, 13, 14, 20, 27, 47
Frequency Modulation is a transmission technique that produces a clearer sound.	
frequency	12, 27
A measurement of the number of vibrations that occur in one second.	
GB	13, 15, 24
A GigaByte measures memory storage capacity, one GB equals one billion bytes.	
Hz	18
Hertz is a unit of frequency measurement.	
icon	7, 10, 12, 14, 15, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 47
Is a small picture that represents a function, file, folder, disk drive, or some other element of a device.	
Karaoke	2, 3, 20
A sing-along feature that displays the words of a song on a screen while you are listening to the song.	
KHz	13, 15, 24
KiloHertz is a unit of frequency measurement.	
Li-ion battery	3, 7, 31, 32, 45
Lithium-Ion battery is a rechargeable battery that has a greater energy capacity and stability.	

Line-In	2, 3, 5, 6, 14, 26
Make a direct external recording using a cable/line-in that connects to a port on the device.	
Linux	4, 3, 30, 34, 35, 42
An open source computer Operating System.	
Mac	4, 3, 30, 34, 35, 42
MACintosh is a computer operating system used in Apple computers.	
MB	45
A MegaByte measures memory storage capacity, one MB equals one million bytes.	
MHz	12, 27
MegaHertz is a unit of frequency measurement.	
microphone	2, 9, 47, 48
Device used to record Audio sounds by converting sound waves into electrical signals.	
Mini USB	2, 3, 4, 5, 7, 31, 32
Mini Universal Serial Bus is a hardware interface used for connecting peripherals to a computer.	
MP3	2, 3, 4, 8, 9, 10, 30, 32, 33, 42, 45, 47
MPEG Audio Layer 3 is a digital audio file compression technology.	
Navigator	2, 3, 10, 11, 13, 15, 16, 21, 47
Gives you access to the files and folders that are saved onto the T.sonic's memory.	
OLED	2, 3, 5, 6, 7, 8, 10, 12, 19, 20, 23, 34, 47
Organic Light Emitting Device is a new technology used in the manufacture of displays.	
USB	2, 3, 4, 7, 29, 30, 31, 32, 34, 37, 39, 42, 43
Universal Serial Bus is a hardware interface found on all modern computers for connecting peripherals.	
USB A-Type	2, 7, 31, 32
Normal sized Universal Serial Bus connector, or port.	
USB port	7, 31, 32, 43
This is the interface on a computer to which a USB device is connected.	
WAV	3, 8, 9, 13, 15, 16, 24, 30, 42, 45
WAV is a digital audio file format used in Windows®.	
Windows	4, 3, 4, 28, 30, 32, 33, 34, 35, 37, 39, 42, 43, 44, 50
Computer Operating System developed by Microsoft.	
Wizard	28, 29, 36
A computer program that guides a user through a procedure for setting up a new application, or device.	
WMA	2, 3, 8, 9, 10, 30, 32, 33, 42, 43, 45, 47
Windows Media Audio is a digital audio file compression technology used in Windows®.	
WMA-DRM10	3, 8, 9, 10, 30, 32, 42, 45
Windows Media Audio Digital Rights Management10 is a digital audio file compression technology that supports subscription based digital rights protected music, which is typically downloaded from an online store.	