



C230

User's Manual

Preliminary Draft!!!



R00

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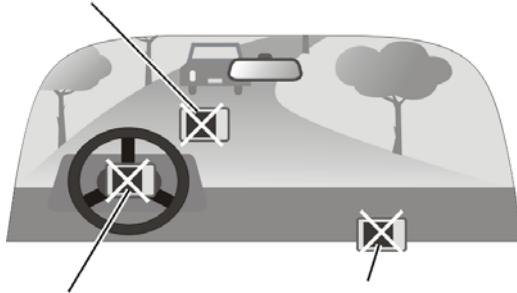
Warnings and Notices

- For your safety, do not operate the controls of the product while driving.
- Use this product with caution. The product is a navigation aid. It does not provide exact measurements of direction, distance, location or topography.
- The calculated route is for reference only. Always follow the posted traffic signs, speed limits and road restrictions.
- When you leave your car, do not leave your device on the dashboard in direct sunlight. This can cause the battery to overheat and malfunction.
- The Global Positioning System (GPS) is operated by the United States government, which is solely responsible for its performance. Any change to the GPS system can affect the accuracy of all GPS equipment world-wide.
- GPS satellite signals do not typically pass through solid materials such as brick, concrete, or lead-coated safety glass. When inside a tunnel, building or under-ground parking structures, GPS positioning will not typically be available.
- A minimum of 4 GPS satellite signals are typically needed to determine your GPS position. Signal reception can be affected by dense overhead structures, severe weather, geographic location or time of day.
- Other wireless devices in the vehicle may interfere with the reception of satellite signals and cause the reception to be unstable.
- Your GPS device is always tracking your location (you are the green arrow) when the navigation software is running and GPS signal is available. Your GPS device is not designed to broadcast its location; therefore it can not be tracked by anyone else.

- A device holder is needed when using the device in a car. Be sure to place the device in an appropriate place, so as not to obstruct the driver's view, or deployment of airbags.

Do not mount where the driver's field of vision is blocked.

Do not place on the dashboard unsecured.



Do not mount in front of airbag panels.

Do not mount in front of an airbag field of deployment.

1

Getting Started

1.1 Understanding Hardware Components

NOTE: Depending upon the specific model purchased, the color of your device may not exactly match the device shown in this manual.

Front Components



Ref	Component	Description
①	Touch Screen	Displays the output of your device. Tap the screen with your stylus to select menu commands or enter information.
②	Charge Indicator	Flashes bright amber to indicate that the battery is charging, and turns green when the battery is fully charged.

Back Components



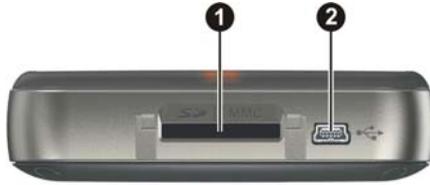
Ref	Component	Description
❶	ON/OFF Switch	The main power/battery cut off switch.
❷	Holder Connector	Connects to the holder.
❸	Speaker	Sends out music, sounds and voice.

Top Components



Ref	Component	Description
❶	Power Button	Turns on and off the device.

Bottom Components



Ref	Component	Description
①	SD/MMC/SDHC(Class 2, Class 4, Class 6) Slot	Accepts an SD (Secure Digital) or SDHC (Secure Digital High Capacity) or MMC (MultiMedia Card) card for accessing data such as map data.
②	Mini-USB Connector	Connects to the USB cable or in-car power cable.

Left-side Components



Ref	Component	Description
①	External Antenna Connector	This connector (under rubber dust cover) allows use of an optional external GPS antenna with magnetic mount, which may be positioned on top of the car for better GPS signal reception in areas with poor reception.

1.2 Performing the Initial Start Up

1. Slide the ON/OFF switch to the ON position.

| CAUTION: Always leave the ON/OFF switch in the ON position for normal operation

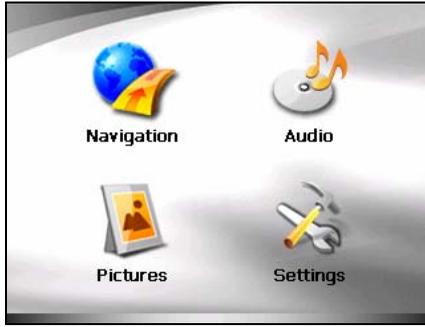


2. Your device turns on.
3. Tap and hold the centre of the target. When the target moves to another position, tap and hold the centre of the new target. Repeat each time to complete the calibration process.

Carefully press and briefly hold stylus on the center of the target. Repeat as the target moves around the screen.



4. The Home screen appears. You can now use your device.



1.3 Using Your Device in a Vehicle

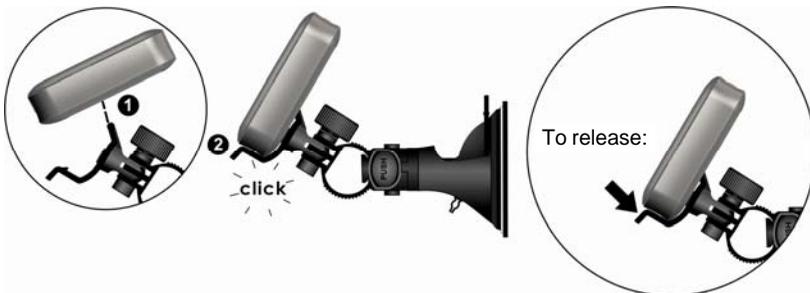
Using the Device Holder

CAUTION:

- Select an appropriate location for the device holder. Never place the holder where the driver's field of vision is blocked.
- If the car's windshield is tinted with a reflective coating, an external antenna (optional) may be needed to route the antenna to the top of the car through a window. When closing the car window, be careful not to pinch the antenna cable

Use the device holder to fix your device in a vehicle. Make sure that the GPS antenna has a clear view of the sky.

| **Note:** To remove your device from the holder, slightly push the tab of the holder to release it.



Connecting the Car Charger

The car charger supplies power and charges your device at the same time. If the battery is fully charged, you can use the battery power without connecting the charger. If you don't want to drain the battery power, you can keep the charger connected while in a vehicle.

CAUTION: To protect your device against sudden surges in current, connect the car charger only after the car engine has been started.

1. Connect one end of the car charger to the power connector of your device.
2. Connect the other end to the cigarette lighter in the car to power and charge your device. The indicator on the car charger lights in green to indicate that power is being supplied to your device.



CAUTION: For optimal performance of the lithium battery, take note of the following:

- Do not charge the battery where the temperature is high (e.g. in direct sunlight).
- There is no need to fully discharge the battery before charging. You can charge the battery before it is discharged.
- If you will not use the product for a long period of time, be sure to fully charge the battery at least once every two weeks. Over discharge of the battery can affect the charging performance.

NOTE: Your device can also be charged when it is connected to a desktop computer via the USB cable. If you intend to charge your device in this way, turn off your device so that it takes less time to charge the battery.

1.4 Operating Basics

Turning On and Off

For normal operation, turn off the device by briefly pressing the power button. The device enters a suspended state.



When you next briefly press the power button, the system resumes. You will either be back to where you left off or see the Home screen.

Navigating on the Screen

To operate your device, touch the screen with your fingertip. You can perform the following actions:

- **Tap**
Touch the screen once with your fingertip to open items or select onscreen buttons or options.
- **Drag**
Hold your fingertip on the screen and drag up/down/left/right or across the screen.
- **Tap and hold**
Tap and hold your fingertip until an action is complete, or a result or menu is shown.



Home Screen

The first time you initialize your device, the Home screen appears. The Home screen is your starting place for various tasks. Tap a button to start a task or open another menu.



Ref	Button Name	Description	For Detailed Information
1	Navigation	Starts the navigation software.	See the manual supplied with the software.
2	Audio	Plays MP3 music.	Chapter 2
3	Pictures	Displays pictures (.jpg, .gif, and .bmp formats).	Chapter 3
4	Settings	Customizes the system settings.	Chapter 4

1.5 Inserting a SD/SDHC/MMC Card

Your device has a slot where you can insert an optional SD/SDHC (Class 2, Class 4, Class 6) /MMC storage card.

To use a card, insert it into the slot, with the connector pointing to the slot and its label facing the front of the device.

To remove a card, first make sure that no application is accessing the card, and then slightly push the top edge of the card to release it and pull it out of the slot.

| NOTE: Make sure that no foreign objects enter the slot.



2 Audio

2.1 Starting and Exiting Audio

Audio turns your device into an MP3 player. It features:

- Playback of MP3 files
- Basic playback controls such as play, pause, stop, next and previous
- Playback includes single selection playback, repeat, single repeat, sampling playback, normal sequence and random sequence.
- 11 preset equalizer audio profiles
- Play list support

Tap the **Audio** button on the Home screen to start the program. The control panel appears on the screen where you can easily control the player by tapping the control buttons.



To exit the program, tap .

2.2 Preparing the MP3 Files for Your Device

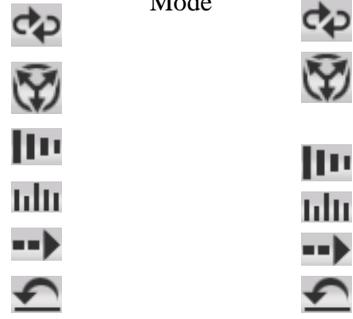
Before using the program, have the MP3 files ready on either your device's flash memory or on a storage card. A tool called **Mio Transfer** is supplied for you to easily copy the files from your computer to the correct location. (See section 5.3 for information.)

2.3 Playing MP3 Files

1. If your files are in a storage card, insert the card into your device.
2. Tap the **Audio** button on the Home screen to start the program.
3. The program will search for the MP3 files in your device and in the storage card. When MP3 files are detected, they will be added to the play list.
| **NOTE:** You can create your own play lists for future playback. (See section 2.5 for details.)
4. To start the playback, tap . To control the playback, use the control buttons as described later.



2.4 Audio Playback Controls

Control Button	Name	Description
	Play/Pause	Play or pause the playback.
	Stop	Stop the playback.
	Previous/ Next	Play the previous or next file.
	Volume	Increase or decrease the volume. The indicator on the panel shows the current volume level.
	Exit	Close the program and return to the Home screen.
	Play List	Open play list. (See Section 2.5 for more information.)
	Equalizer	Open or close the equalizer panel. (See Section 2.6 for more information.)
	Playback Mode	Cycle through the following modes:  Repeated playback of all files in sequence  Repeated playback of all files in random order  Sampling playback in sequence  Sampling playback in random order  Single playback of the current file  Repeated playback of the current file
	Help	Introduce the function and operation of each button. Tap a button to see a description line at the bottom of the screen.

2.5 Using the Play Lists

By default, the program automatically loads all MP3 files in the play list. You can also create your own play lists for future use.

Creating a Play List

1. After starting MP3, tap  on the control panel to open the play list screen. The screen shows the current play list.



2. To add a song to the play list, tap . A screen appears displaying all the MP3 files. Tap the song you wish to add and then tap .



Add the selected song(s) to the play list.

Select all songs.

3. Repeat the same procedure for the other songs to be added.
4. To save the play list, tap .
5. The keyboard screen appears where you can change the default name of the play list. Rename the play list if you want. Tap OK when finished.
6. To return to the control panel, tap .

Opening a Play List

To open one of the play lists that you have created:

1. After starting MP3, tap  on the control panel.
2. Tap  to display all the play lists you have created.
3. Tap the play list you want to open and tap .



Delete the selected play list.
Delete all the play lists.
Open the selected play list.
Rename the selected play list.
Back

4. To return to the control panel, tap .

2.6 Equalizer

The program provides 11 preset audio profiles. Tap  to open the equalizer panel.

Tap  to save your selection and return to the control panel. Tap  to cancel your selection and return to the control panel.

To select the *Default* profile, tap .

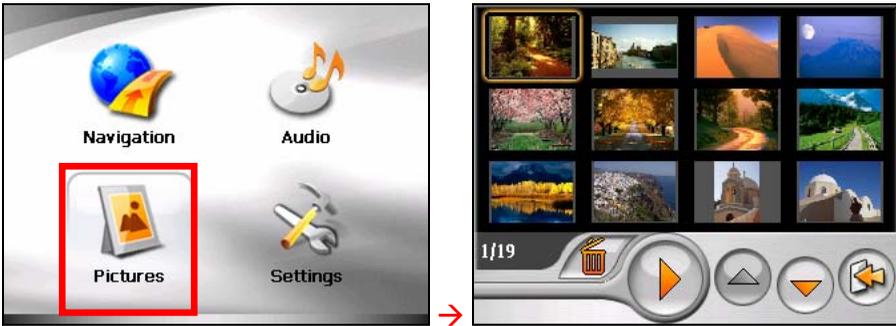
3

Pictures

3.1 Starting and Exiting Pictures

Pictures allows you to view pictures in JPEG, GIF and BMP formats and view the slideshow of the pictures on your device.

Tap the Pictures button on the Home screen to start the program.



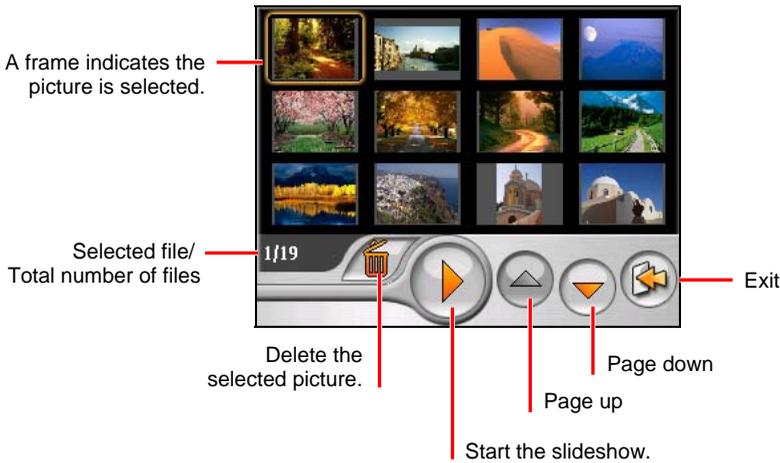
To exit the program, tap  .

3.2 Preparing the Pictures for Your Device

Before using the program, have the JPEG/GIF/BMP files ready on either your device's flash memory or on a storage card. A tool called "Mio Transfer" is supplied for you to easily copy the files from your computer to the correct location. (See section 5.2 for information.)

3.3 Viewing Pictures in Thumbnail View

1. If your files are in a storage card, insert the card into your device.
2. Tap the Pictures button on the Home screen to start the program.
3. The program will search the matching files in the specific folder on your device and in all folders on a storage card. It then displays the pictures in the thumbnail view. You can press the Up or Down arrow button to go to next or previous page.



3.4 Viewing a Picture in Full Screen

When you tap a picture twice in the thumbnail view, the picture is displayed in full screen.



To go back to the thumbnail view, tap anywhere on the screen to display the control buttons and then tap  .

3.5 On-Screen Control Buttons

On-screen control buttons provide various functions and settings. Tap anywhere on the picture to display the buttons as shown below. To close the buttons, tap the picture again.



Control Button	Name	Description
	Transfer	Transfers pictures between the device and the storage card. (See section 3.7 for detailed information.)
	Slideshow	Starts the slideshow. (See section 3.6 for detailed information.)
	Interval	<p>Sets the length of time each slide is displayed before moving on to the next slide. Tap the button to switch to the next available option.</p> <ul style="list-style-type: none">  1 second  2 seconds  5 seconds



Information

Enables or disables the displaying of the name and date of the file.



Delete

Deletes the current picture.



Zoom

Opens the zoom bar.

Tap the button as many times as needed to zoom in to 1.2x, 1.5x, 1.8x, or 2.0x. When you have zoomed in the picture, you can drag the picture to view other parts of the picture.



To close the zoom bar, tap .



Back

Goes back to the thumbnail view.

3.6 Viewing the Slideshow

To view the slideshow of all your pictures, use one of the following ways:

- When in the thumbnail view, tap  to start the slideshow.



- When in full screen, tap anywhere on the picture to display the on-screen control buttons. Then tap  to start the slideshow.



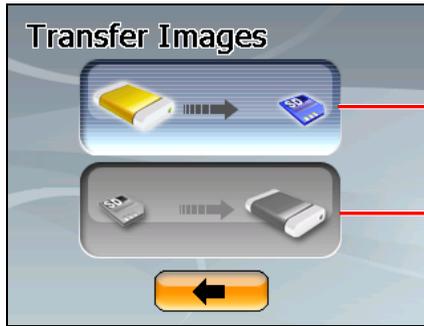
A small triangle at the lower left corner of the screen indicates that the slideshow is on. To stop the slideshow, tap anywhere on the screen.



3.7 Transferring Pictures

You can copy pictures from your device to your storage card or from your storage card to your device.

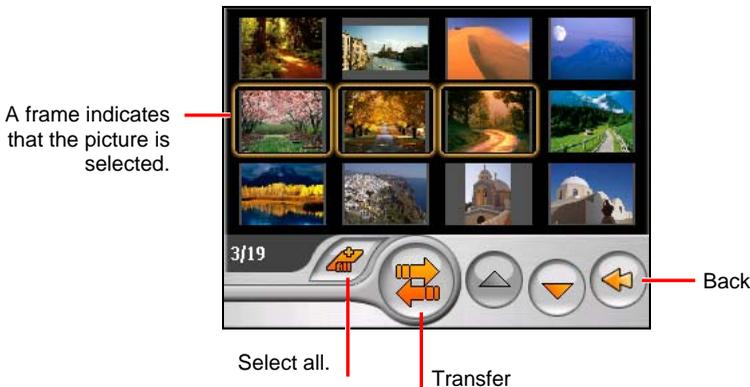
1. In full screen view, tap anywhere on the picture to display the control buttons.
2. Tap .
3. Select one of the two ways to transfer pictures, either from the device to the storage card or from the storage card to the device.



Transfer pictures from the device to the storage card.

Transfer pictures from the storage card to the device.

4. The preview screen appears. You can tap to select a picture or several pictures. You can also tap the Select All button to select all pictures in the source folder.



5. After selecting the picture(s), tap  to start the file transfer.
6. Once the transfer is completed, tap  to go back to the preview screen.

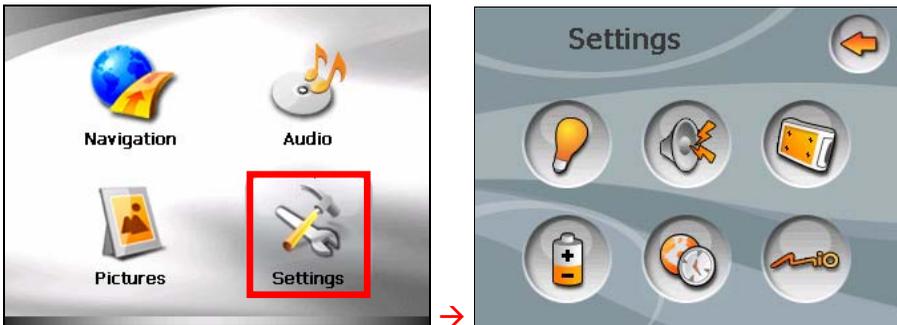
4

Settings

4.1 Starting and Exiting Settings

You can customize the system settings such as backlight brightness and volume. Once you change the settings, the new settings will remain until you change them again.

Tap the Settings button on the Home screen. The Settings menu appears as shown below.



To exit Settings, tap .

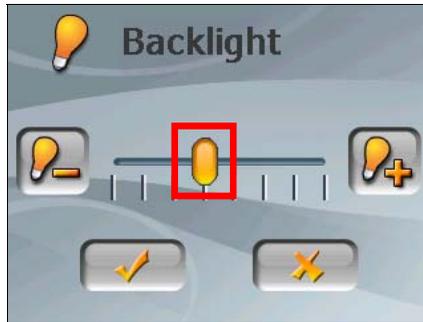
The following sections describe the various buttons and their functions.

4.2 Backlight

1. Tap the Settings button on the Home screen.
2. Tap the Backlight button.



3. Move the knob along the track bar to adjust the brightness of the backlight. To darken the backlight, move the knob to the left. To lighten the backlight, move the knob to the right.



4. Tap  to save the changes.

4.3 Volume

1. Tap the Settings button on the Home screen.
2. Tap the Volume button.



3. Move the knob along the track bar to adjust the volume. To decrease the volume, move the knob to the left. To increase the volume, move the knob to the right.



4. Tap  save the changes.

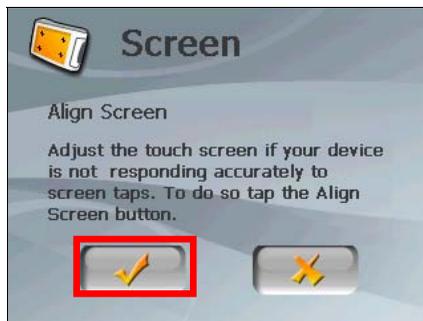
4.4 Screen

You can calibrate the touch screen if it is not responding accurately to your taps.

1. Tap the Settings button on the Home screen.
2. Tap the Screen button.



3. Tap  to start the calibration.



4. Tap and hold the centre of the target.

Carefully press and briefly hold stylus on the center of the target. Repeat as the target moves around the screen.



5. When the target moves to another position, tap and hold the centre of the new target. Repeat each time to complete the calibration process.
6. When completed, tap .

4.5 Power

To check the remaining power level of your battery and/or set up the power saving feature:

1. Tap the **Settings** button on the Home screen.
2. Tap the **Power** button.



3. The screen shows the remaining power of your battery.

You can set a timer to automatically turn off your device when it is idle for a set period of time. The options include **Never**, **30 minutes**, **20 minutes**, and **10 minutes**.



4. Tap  to save the changes.

4.6 Date&Time

1. Tap the **Settings** button on the Home screen.
2. Tap the **Date&Time** button.



3. To change the time zone, tap the left/right arrow in the “Time Zone” item.

- To change the date, tap the down arrow in the “Date” item. A calendar pops up. Tap the left arrow on the calendar to go to the earlier month and year or the right arrow to the later month and year. Alternatively, you can tap the month or year on top of the calendar to directly change the month or year.

When the calendar shows the current month, tap the date on the calendar.



- To set the time, first tap the hour, minute, or second in the “Time” item and then tap the up arrow to increase or down arrow to decrease the value.
- Tap  to save the changes.

5

MioTransfer

5.1 Installing MioTransfer

MioTransfer allows you to easily transfer data such as MP3 and photos between your device and a computer. To install MioTransfer to your computer:

1. Turn on your computer and insert the supplied CD/DVD into the CD/DVD-ROM drive of your computer.
2. When the language selecting screen appears, click the language that you wish to install from.
3. Click Install MioTransfer.
4. Click Next. Follow the onscreen instructions to complete the installation.

NOTE: If MioTransfer has already been installed on your computer, clicking **Install MioTransfer** will remove the application from your system.

5.2 Starting and Exiting MioTransfer

Click MioTransfer icon on the Windows Desktop to start the program. The MioTransfer screen appears.



It provides the following tools:

- **Audio**
Allows you to transfer the audio files between your device and your computer. (See section 5.3 for details.)
- **Pictures**
Allows you to transfer pictures between your device and your computer. (See section 5.3 for details.)
- **Mio Online**
Provides link to the Mio website.

To exit MioTransfer, click Exit at the bottom right corner of the screen.

5.3 Copying Multimedia Files to Your Device

Before playing multimedia files such as MP3 files, you need to have the files ready on your device. Use MioTransfer to copy the files from your computer to the correct location on your device.

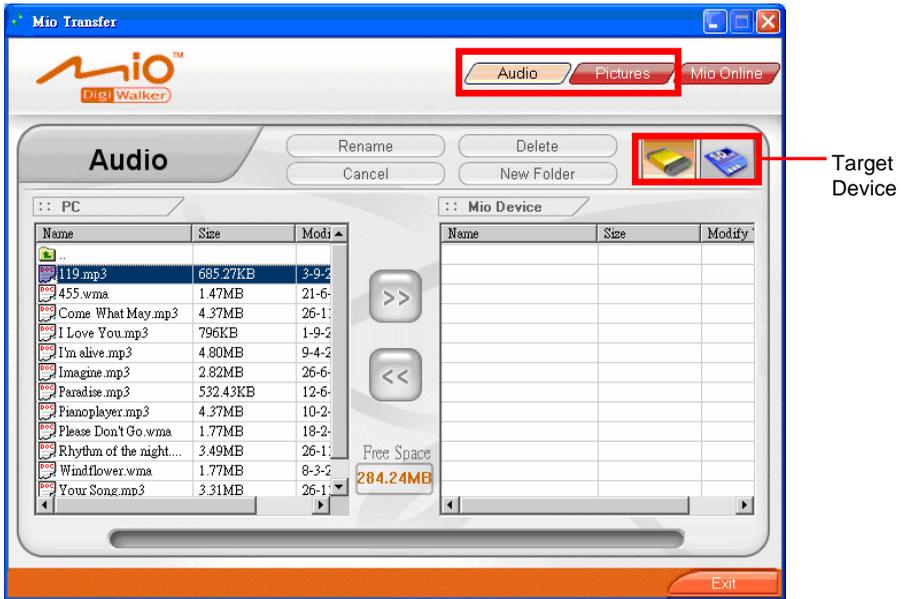
1. If you want to copy files to a storage card, insert the card to your device.

2. Turn on your computer and your device.
3. Connect the mini-USB end of the USB cable to the bottom of your device and the other end to a USB port on your computer.



4. Start MioTransfer by clicking MioTransfer icon on the Windows Desktop. The MioTransfer screen appears.
5. Select the type of file to copy:
 - To copy audio files, click **Audio** on the top menu bar.
 - To copy photos or pictures, click **Pictures** on the top menu bar.

The left column shows the drives of your computer and the right column shows the files in the appropriate folder of the target device (either  or ).



6. Select your target device by clicking one of the icons:

-  - the flash memory of your device
-  - a storage card inserted into your device.

7. Select the folder where your audio or picture files are from the left column.

Select the file you want to copy and tap . The status bar will indicate the progress of file transfer and the selected file will be copied to the target device.

NOTE: You can also copy files from your device to your computer. First select the file you want to copy from the right column and select a folder on the left column to place these files. Then click  to start the file transfer.

Managing Files

Various buttons are available for you to manage the files:

- **Rename**
Changes the name of the selected file.
- **Delete**
Removes the selected file.
- **Cancel**
Aborts the ongoing action of file transfer.
- **New Folder**
Creates a new folder in the selected drive or folder.

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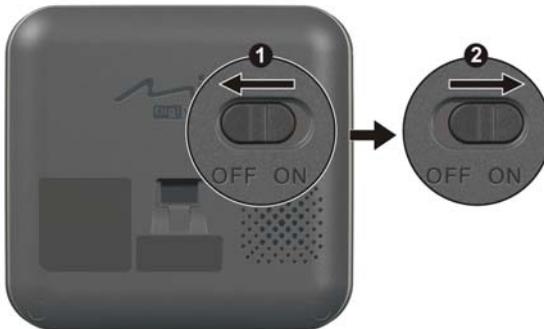
Troubleshooting and Maintenance

6.1 Reset Your System

Occasionally, you may need to reset your device. For example, you should reset your system when it stops responding; or appears to be “frozen” or “locked up.”

You can use the following steps to perform a “hard reset.”

1. Disconnect all cables, including the charger, from your device.
2. Slide the ON/OFF switch to the OFF position.
3. Wait for 1 minute and then slide the switch back to the ON position.



6.2 Troubleshooting

NOTE: If you encounter a problem you cannot solve, contact an authorized service center for assistance.

Power Problems

Power does not turn on when using battery power

- The remaining battery power may be too low to run your device. Charge the battery.

Screen Problems

Screen responds slowly

- Make sure that your device is not running out of battery power. If the problem still exists, reset your system.

Screen freezes

- Reset your system. Screen is hard to read
- Make sure that the backlight of the display is on.
- Move to a location with more light.

Inaccurate response to taps

- Recalibrate your screen. (See section 4.4 for information.)

Connection Problems

Cable Connection Problems

- Make sure that your device and your computer are both turned on before trying to establish a connection.
- Make sure that the cable is securely plugged into the USB port on your computer and on the device. Connect the USB cable directly to your computer—do not run the cable through a USB hub.

- Reset your device before connecting the cable. Always disconnect your device before you restart your computer.

GPS Problems

- When there are no valid signals available, consider the following:
- Make sure that the GPS antenna has a clear view of the sky.
- Note that the GPS reception can be affected by:
 - ✓ Bad weather
 - ✓ Dense overhead obstacles (e.g. trees and tall buildings)
 - ✓ Other wireless device in the car
 - ✓ Reflective car window tint

6.3 Maintaining Your Device

Taking good care of your device will ensure trouble-free operation and reduce the risk of damage to your device.

- Keep your device away from excessive moisture and extreme temperatures.
- Avoid exposing your device to direct sunlight or strong ultraviolet light for extended periods of time.
- Do not place anything on top of your device or drop objects on your device.
- Do not drop your device or subject it to severe shock.
- Do not subject your device to sudden and severe temperature changes. This could cause moisture condensation inside the unit, which could damage your device. In the event of moisture condensation, allow the device to dry out completely before use.
- Take care not to sit on the device. We advise not to carry the device in one's back pocket for that reason.
- The screen surface can easily be scratched. Avoid touching it with sharp objects. Non-adhesive generic screen protectors designed specifically for use on portable devices with LCD panels may be used to help protect the screen from minor scratches.

- Do not use paper towels to clean the screen.
- Never attempt to disassemble, repair or make any modifications to your device. Disassembly, modification or any attempt at repair could cause damage to your device and even bodily injury or property damage and will void any warranty.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as your device, its parts or accessories.

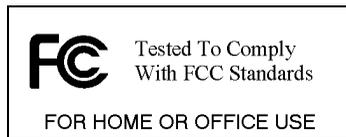
7

Regulatory Information

NOTE: Marking labels located on the exterior of your device indicate the regulations that your model complies with. Please check the marking labels on your device and refer to the corresponding statements in this chapter. Some notices apply to specific models only.

7.1 Regulations Statements

Class B Regulations



USA

Federal Communications Commission Radio Frequency Interference Statement

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Please note:

The use of a non-shielded interface cable with this equipment is prohibited.

Canada

Canadian Department Of Communications

Radio Interference Regulations Class B Compliance Notice

This Class B digital apparatus meets all requirements of the Canada Interference-Causing equipment regulations.

Cet appareil numérique de Classe B respecte toutes les exigences du Règlement Canadien sur le matériel brouilleur.

European Notice

Products with the CE marking comply with Radio & Telecommunication Terminal Equipment Directive (R&TTE) (1999/5/EEC), the Electromagnetic Compatibility Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) – as amended by Directive 93/68/ECC - issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Standards:

EN301489-1: Electronic compatibility and Radio spectrum Matters (ERM), ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN301489-3: Electronic compatibility and Radio spectrum Matters (ERM), ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz

EN55022: Radio disturbance characteristics

EN55024: Immunity characteristics

EN6100-3-2: Limits for harmonic current emissions

EN6100-3-3: Limitation of voltage fluctuation and flicker in low-voltage supply system

EN60950 / IEC 60950: Product Safety

The manufacturer cannot be held responsible for modifications made by the User and the consequences thereof, which may alter the conformity of the product with the CE Marking.

7.2 Safety Precautions

- Prolonged listening of music in maximum volume can damage the ears.
- The use of headphones other than those recommended/supplied can cause hearing impairment due to excessive sound pressure.

About Charging

- Use only the charger (UDID, G12PCL-535-B031) supplied with your device. Use of another type of charger will result in malfunction and/or danger.
- This product is intended to be supplied by a LISTED Power Unit marked with “LPS”, “Limited Power Source” and output rated + 5 V dc / 1.0 A”.
- Use a specified battery in the equipment.

About the Charger

- Do not use the charger in a high moisture environment. Never touch the charger when your hands or feet are wet.
- Allow adequate ventilation around the charger when using it to operate the device or charge the battery. Do not cover the charger with paper or other objects that will reduce cooling. Do not use the charger while it is inside a carrying case.
- Connect the charger to a proper power source. The voltage requirements are found on the product case and/or packaging.
- Do not use the charger if the cord becomes damaged.

- Do not attempt to service the unit. There are no serviceable parts inside. Replace the unit if it is damaged or exposed to excess moisture.

About the Battery

- Use a specified charger approved by the manufacturer.

CAUTION: This unit contains a non-replaceable internal Lithium Ion battery. The battery can burst or explode, releasing hazardous chemicals. To reduce the risk of fire or burns, do not disassemble, crush, puncture, or dispose of in fire or water.

- Important instructions (for service personnel only)
 - ✓ **Caution:** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
 - ✓ Replace only with the same or equivalent type recommended by the manufacturer.
 - ✓ The battery must be recycled or disposed of properly.
 - ✓ Use the battery only in the specified equipment.