



safe, smart, protected



## Battery use & safety

Your mobile device uses a removable battery.

### Warning:

- Don't use tools, sharp objects or excessive force to insert or remove the battery. This may damage the battery and may cause burning and injury.
- Don't try to take apart or fix your battery. This may damage the battery and may cause burning and injury.
- Don't crush, bend or expose your battery or mobile device to heat or liquid. This may damage the battery and may cause burning and injury.

## Battery charging

Charge your Motorola mobile device using a compatible Motorola charger, another brand class 2 Limited Power Source USB charger that complies with USB 1.1 or 2.0 and complies with EN301489-34, EN60950-1 or equivalent, or a high-power USB port on a PC. Chargers that do not comply with these standards may be unsafe, and may cause slow charging, product damage or reduced device performance.

- Your mobile device will not charge if the temperature is too high or low.
- Only use Motorola-approved batteries, which contain safety circuitry and are designed to give the best performance in your Motorola mobile device.

## Third-party batteries

Using a non-Motorola battery may present a risk of fire, explosion, leakage or other hazard. Motorola's warranty doesn't cover damage to the mobile device caused by non-Motorola batteries. For a list of Motorola accessories, visit [www.motorola.com/us/consumers/Accessories/accessories,en\\_US,sc.html](http://www.motorola.com/us/consumers/Accessories/accessories,en_US,sc.html) (in English only).

To help you identify authentic Motorola batteries from non-original or counterfeit batteries (that may not have adequate safety protection), Motorola provides holograms on its batteries. You should confirm that any battery you purchase has a "Motorola Original" hologram. If you see a message on your mobile device such as **Invalid battery** or **Unable to charge**, take the following steps:

- Remove the battery and inspect it to confirm that it has a "Motorola original" hologram.
- If there is no hologram, the battery is not a Motorola battery.
- If there is a hologram, replace the battery and try charging it again.
- If the message remains, contact a Motorola authorised service centre.

## Driving precautions

Responsible and safe driving is your primary responsibility when driving a vehicle. Always obey local laws and regulations.

## Seizures, blackouts, eyestrain & discomfort

Prolonged use of any device may cause discomfort in hands, fingers, arms, neck and other parts of your body, and may cause eyestrain and headaches. It is good practice to use your device in a safe area with comfortable ambient lighting, and take frequent breaks if you feel discomfort. Seek medical advice if symptoms persist.

In rare cases, flashing patterns or lights, for example in video games or movies, may cause seizures or blackouts. If you suffer any seizures or blackouts, or have a history of seizures, stop using your device and seek medical advice.

## Caution about high volume usage

**Warning:** exposure to loud noise from any source for extended periods of time may affect your hearing. The louder the sound, the less time is required before your hearing could be affected. To protect your hearing:



- Limit the amount of time you use headsets or headphones at high volume.
- Avoid turning up the volume to block out noisy surroundings.
- Turn the volume down if you can't hear people speaking near you.

If you experience hearing discomfort, including the sensation of pressure or fullness in your ears, ringing in your ears or muffled speech, you should stop listening to the device through your headset or headphones and have your hearing checked.

## Children

**Keep your mobile device and its accessories away from small children.**

These products are not toys and may be hazardous to small children. For example, a choking hazard may exist for small, detachable parts.

**Supervise access.** If a child does use your mobile device and accessories, monitor their access to help prevent loss of data or unexpected charges for data or application purchases.

## Glass parts

Some parts of your mobile device may be made of glass. If the glass breaks, don't attempt to service the device yourself. Stop using your mobile device until the glass is replaced by a qualified service centre.

## Allergens

Motorola Mobility avoids using known allergens in our products. From time to time, trace amounts of an allergen may be added during manufacture of a mobile device or device component that could cause discomfort for some individuals. This approach is common for many types of products. We recommend that you monitor any products that may be in prolonged contact with your skin, and remove them if you experience skin irritation.

## Use & care

To care for your Motorola mobile device, please observe the following:

- **Liquids:** don't expose your mobile device to water, rain, extreme humidity, sweat or other liquids.
- **Drying:** don't try to dry your mobile device using a microwave oven, conventional oven or dryer.
- **Extreme heat or cold:** don't store or use your mobile device in temperatures below -10°C (14°F) or above 35°C (95°F). Don't recharge your mobile device in temperatures below 0°C (32°F) or above 45°C (113°F).
- **Dust and dirt:** don't expose your mobile device to dust, dirt, sand, food or similar materials.
- **Cleaning:** to clean your mobile device, use only a dry soft cloth. Do not use alcohol or other cleaning solutions.
- **Shock and vibration:** don't drop your mobile device or expose it to strong vibration.
- **Protection:** to help protect your mobile device, always make sure that any available connectors, compartments and removable covers are closed and secure, and avoid carrying it with hard objects such as keys or coins.

## Operational warnings

Obey all posted signs when using mobile devices in public areas.



### Potentially explosive areas






Potentially explosive areas are often, but not always, posted and can include blasting areas, fuelling stations, fuelling areas (such as below decks on boats), fuel or chemical transfer or storage facilities, or areas where the air contains chemicals or particles, such as grain dust or metal powders.

Turn off your mobile device before entering such an area, and do not remove, install or charge batteries. In such areas, sparks can occur and cause an explosion or fire.

### Symbol key

Your battery, charger, mobile device, device display, user guide or packaging may contain symbols, defined as follows:

Symbol	Definition
	Important safety information follows.
	Don't dispose of your battery or mobile device in a fire.

Symbol	Definition
	<p>Your battery or mobile device may require recycling in accordance with local laws. Contact your local regulatory authorities for more information.</p>
	<p>Don't dispose of your battery or mobile device with your household waste. See "Disposal &amp; recycling" for more information.</p>
	<p>For indoor use only.</p>
	<p>Listening at high volume to music or voice through a headset or headphone may damage your hearing.</p>
	<p>Only use your charger indoors.</p>

## Radio frequency (RF) energy

### Exposure to RF energy & device operation

Your mobile device contains a transmitter and receiver of RF energy. It is designed to comply with regulatory requirements concerning human RF exposure.

For optimal device performance, and to stay within the RF exposure guidelines:

- Hold your mobile device normally at your ear when talking on it.
- When using the mobile device next to your body (other than in your hand or against your head), maintain a distance of 1.0 cm from your body to be consistent with how the mobile device is tested for compliance with RF exposure requirements.
- If you use your mobile device with a non-Motorola accessory case or holder, make sure the accessory maintains the required separation distance and has no metallic parts.

### Follow instructions to avoid interference problems

Turn off your mobile device in any location where posted notices instruct you to do so, such as hospitals or healthcare facilities.

In an aircraft, turn off your mobile device whenever instructed to do so by airline staff. If your mobile device offers an aeroplane mode or similar feature, consult airline staff about using it in-flight.

## Medical devices

If you use an implantable pacemaker or defibrillator, or other medical device, consult your healthcare provider and the device manufacturer's directions before using this mobile device.

Persons with a pacemaker or defibrillator should observe the following precautions:

- ALWAYS keep the mobile device more than 20 centimetres (8 inches) from the pacemaker or defibrillator when the mobile device is turned ON.
- Use the ear opposite the pacemaker or defibrillator to minimise the potential for interference.
- Turn OFF the mobile device immediately if you have any reason to suspect that interference is taking place.

## Regulatory information

Your Motorola mobile device is designed to comply with national regulatory requirements and international standards. For full compliance statements and details, please refer to the regulatory information in your product guides.

## European Union directives conformance statement

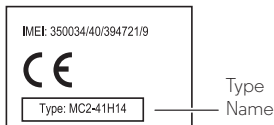
The following CE compliance information is applicable to Motorola mobile devices that carry one of the following CE marks (numbers vary by device):



Hereby, Motorola declares that this product is in compliance with:

- The essential requirements and other relevant provisions of directive 2014/53/EC
- All other relevant EU directives

The following gives an example of a typical Type name:



Hereby, Motorola Mobility LLC declares that the radio equipment is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: [www.motorola.com/red](http://www.motorola.com/red)

Regulatory authorities within the EU may obtain compliance information by writing to: Product Safety and Compliance, Motorola Mobility UK Ltd., Redwood, Crockford Lane, Chineham Business Park, Basingstoke, RG24 8WQ.

## FCC notice to users

**The following statement applies to all products that bear the FCC logo and/or FCC ID on the product label.**

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. See 47 CFR Sec. 15.105(b). 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 the receiver.
- Connect the equipment to 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.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. See 47 CFR Sec. 15.19(a)(3). Motorola has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment. See 47 CFR Sec. 15.21.



## Software notices

### **Warning against unlocking the bootloader or altering a product's**

**operating system software:** Motorola strongly recommends that you do not alter a product's operating system, which includes unlocking the bootloader, rooting a device or running any operating software other than the approved versions issued by Motorola and its partners. Such alterations may permanently damage your product, cause your product to be unsafe and/or cause your product to malfunction. In such cases, neither the product nor any damage resulting therefrom will be covered by warranty.

**Important FCC information:** you must not make or enable any changes to the product that will impact its FCC grant of equipment authorisation. The FCC grant is based on the product's emission, modulation and transmission characteristics, including: power levels, operating frequencies and bandwidths, SAR levels, duty-cycle, transmission modes (e.g., CDMA, GSM), and intended method of using the product (e.g., how the product is held or used in proximity to the body). A change to any of these factors will invalidate the FCC grant. It is illegal to operate a transmitting product without a valid grant.

## Location services

Motorola mobile devices can provide information about their approximate location to applications, using sources including GPS, AGPS and Wi-Fi. GPS (Global Positioning System) uses government-operated satellites that are subject to changes implemented in accordance with Department of Defense policy and the Federal Radionavigation Plan. These changes may affect the performance of location technology on your mobile device. AGPS (Assisted Global Positioning System) uses your wireless service provider's network to improve GPS performance. Airtime, data fees and/or additional charges may apply in accordance with your service plan. Contact your wireless service provider for details. Your mobile device can also use Wi-Fi signals to determine your approximate location, using information from known and available Wi-Fi networks. Mobile devices transmit location-based information when connected to a wireless network or when using other location technologies such as GPS. If you use applications that require location-based information such as driving directions, your mobile device will provide location information to them. These applications may share location information with third parties, including your wireless service provider, applications providers, Motorola and other third parties providing services.

## Emergency calls

When you make an emergency call, the mobile network may activate the AGPS technology in your mobile device to tell the emergency responders your approximate location.

AGPS has limitations and **might not work in your area**. Therefore:

- Always tell the emergency responder your location to the best of your ability; and
- Remain on the call for as long as the emergency responder instructs you.

## Navigation

If your Motorola mobile device provides navigation features, note that mapping information, directions and other navigational data may contain inaccurate or incomplete data. In some countries, complete information may not be available. Therefore, you should visually confirm that the navigational instructions are consistent with what you see. All drivers should pay attention to road conditions, closures, traffic and all other factors that may impact driving. Always obey posted road signs.

## Privacy & data security

Motorola understands that privacy and data security are important to everyone. Given that some features of your mobile device may affect your privacy or data security, please follow these recommendations to enhance protection of your information:

- **Monitor access:** keep your mobile device with you and don't leave it where others may have unmonitored access. Use your device's security and lock features, where available.
- **Keep software up to date:** if Motorola or a software/application vendor releases a patch or software fix for your mobile device that updates the device's security, install it as soon as possible.
- **Secure personal information:** your mobile device can store personal information in various locations, including a SIM card, memory card and phone memory. Make sure you remove or clear all personal information before you recycle, return or give away your device. You can also back up your personal data to transfer to a new device.  
**Note:** for information on how to back up or wipe data from your mobile device, go to [www.motorola.com/support](http://www.motorola.com/support)
- **Online accounts:** some mobile devices provide a Motorola online account. Go to your account for information on how to manage the account and how to use security features such as remote wipe and device location (where available).
- **Applications and updates:** choose your apps and updates carefully, and install from trusted sources only. Some apps can affect your mobile device's performance and/or have access to private information including account details, call data, location details and network resources.
- **Wireless:** for mobile devices with Wi-Fi features, only connect to trusted Wi-Fi networks. Also, when using your device as a hotspot (where available), use network security. These precautions will help prevent unauthorised access to your device.
- **Location-based information:** mobile devices enabled with location-based technologies such as GPS, AGPS or Wi-Fi can transmit location-based information. See "Location services" for more details.
- **Other information your device may transmit:** your mobile device may also transmit testing and other diagnostic (including location-based) information, and other non-personal information to Motorola or other third-party servers. This information is used to help improve products and services offered by Motorola.

If you have further questions about how using your mobile device may affect your privacy or data security, please contact Motorola at [privacy@motorola.com](mailto:privacy@motorola.com), or contact your service provider.

## Disposal & recycling

### Mobile devices & accessories

Please don't dispose of mobile devices or electrical accessories (such as chargers, headsets or batteries) with your household waste.

**Warning: never dispose of batteries, either separately or within a mobile device, in a fire because they may explode.** Mobile devices or electrical accessories should be disposed of in accordance with the national collection and recycling schemes operated by your local or regional authority. Or, you may return unwanted Motorola mobile devices and electrical accessories to any Motorola-approved service centre in your region. For details on approved national recycling schemes and Motorola recycling activities, go to: [www.motorola.com/recycling](http://www.motorola.com/recycling).

This product is RoHS compliant.



### Packaging & product guides

Product packaging and product guides should only be disposed of in accordance with national collection and recycling requirements. Please contact your regional authorities for more details.

## Software copyright

Motorola products may include copyrighted Motorola and third-party software stored in semiconductor memories or other media. Laws in the United States and other countries preserve for Motorola and third-party software providers certain exclusive rights for copyrighted software, such as the exclusive rights to distribute or reproduce the copyrighted software. Accordingly, any copyrighted software contained in Motorola products may not be modified, reverse-engineered, distributed or reproduced in any manner to the extent allowed by law. Furthermore, the purchase of Motorola products shall not be deemed to grant either directly or by implication, estoppel or otherwise, any licence under the copyrights, patents or patent applications of Motorola or any third-party software provider, except for the normal, non-exclusive, royalty-free licence to use that arises by operation of law in the sale of a product.

## Content copyright

The unauthorised copying of copyrighted materials is contrary to the provisions of the copyright laws of the United States and other countries. This device is intended solely for copying non-copyrighted materials, materials in which you own the copyright or materials which you are authorised or legally permitted to copy. If you are uncertain about your right to copy any material, please contact your legal advisor.

## Open source software information

To obtain a copy of any source code being made publicly available by Motorola related to software used in this Motorola mobile device, go to **developer.motorola.com** (in English only).

Motorola has created the **developer.motorola.com** website to serve as a portal for interaction with the software community-at-large.

To view additional information regarding licences, acknowledgments and required copyright notices for open source packages used in this Motorola device, go to Apps → **Settings** → **About phone** → **Legal information** → **Open source licences**. In addition, this Motorola device may include self-contained applications that present supplemental notices for open source packages used in those applications.

## How to obtain service or other information

1. Please access and review the online Customer support section of Motorola's consumer website prior to requesting warranty service.
2. If the Product is still not functioning properly after making use of this resource, please contact the Warrantor listed at the Motorola website or the contact information for the corresponding location.
3. A representative of Motorola, or of a Motorola Authorised repair centre, will help determine whether your Product requires service. You may be required to download, or otherwise obtain and accept software updates from Motorola or a Motorola Authorised repair centre. You are responsible for any applicable carrier service fees incurred while obtaining the required downloads. Complying with the warranty process, repair instructions and accepting such software updates is required in order to receive additional warranty support.
4. If the software update doesn't fix the problem, you will receive instructions on how to ship the Product to a Motorola-authorized repair centre or other entity.
5. To obtain warranty service, as permitted by applicable law, you are required to include: (a) a copy of your receipt, bill of sale or other comparable proof of purchase; (b) a written description of the problem; (c) the name of your service provider, if applicable; (d) your address and telephone number. In the event the Product is not covered by the Motorola Limited Warranty, Motorola will inform the consumer of the availability, price and other conditions applicable to the repair of the Product.

**To obtain service or other information, please access and review the online customer support section of Motorola's consumer website at [www.motorola.com](http://www.motorola.com).**

## Arbitration and opt-out

Except where prohibited by law, any controversy or claim arising out of or relating to any Motorola product will be resolved by binding arbitration, instead of in court, unless you opt out as explained below. The arbitration will take place in a location determined by the arbitrator as set forth in these terms (provided that such location is reasonably convenient for claimant), or a different location as may be mutually agreed upon by the parties. The arbitration will be conducted under the rules for commercial disputes set forth in the Comprehensive Arbitration Rules and Procedures of JAMS ("JAMS Rules and Procedures"). Judgement upon the award rendered by the arbitrator(s) may be entered in any court having jurisdiction thereof. The arbitrator shall be selected pursuant to the JAMS Rules and Procedures. The arbitrator will apply Illinois law consistent with the Federal Arbitration Act and applicable statutes of limitations, and shall honour claims of privilege recognised at law. In the event that the claimant is able to demonstrate that the costs of arbitration will be prohibitive as compared to the costs of litigation, Motorola will pay as much of the claimant's filing and hearing fees in connection with the arbitration as the arbitrator deems necessary to prevent the arbitration from being cost-prohibitive.

If any part of this arbitration provision is deemed to be invalid, unenforceable or illegal (other than that claims will not be arbitrated on a class or representative basis), or otherwise conflicts with the rules and procedures established by JAMS, then the balance of this arbitration provision shall remain in effect and shall be construed in accordance with its terms as if the invalid, unenforceable, illegal or conflicting provision were not contained herein. If, however, the portion that is deemed invalid, unenforceable or illegal is that claims will not be arbitrated on a class or representative basis, then the entirety of this arbitration provision shall be null and void, and neither claimant nor Motorola shall be entitled to arbitrate their dispute. Upon filing a demand for arbitration, all parties to the arbitration will have the right of discovery, which discovery shall be completed within sixty days after the demand for arbitration is made, unless further extended by mutual agreement of the parties.

THE ARBITRATION OF DISPUTES PURSUANT TO THIS AGREEMENT SHALL BE IN YOUR INDIVIDUAL CAPACITY, AND NOT AS A PLAINTIFF OR CLASS MEMBER IN ANY PURPORTED CLASS OR REPRESENTATIVE PROCEEDING. THE ARBITRATOR MAY NOT CONSOLIDATE OR JOIN THE CLAIMS OF OTHER PERSONS OR PARTIES WHO MAY BE SIMILARLY SITUATED.

**Your right to reject:** if you do not want this Arbitration provision to apply, you may reject it by sending a written rejection notice which describes this Arbitration provision, includes your name, address, phone number, device and device serial number, and tells Motorola that you are rejecting this Arbitration provision to: Motorola Mobility LLC, 222 West Merchandise Mart Plaza, Suite 1800, Attn: Arbitration Provision Opt-Out, Chicago, IL 60654 or [arbitrat@motorola.com](mailto:arbitrat@motorola.com). A rejection notice is only effective if it is signed and Motorola receives the notice within 30 days of purchase. If you do not reject this Arbitration provision within this 30 day time period, you will not be able to reject it at a later date. If you reject this provision, it does not affect your

ability to use your Motorola product. If you do not reject this Arbitration provision, it will be effective as of the date of purchase.

## Copyright & trademarks

Motorola Mobility LLC  
222 W. Merchandise Mart Plaza  
Chicago, IL 60654

**www.motorola.com**

Certain features, services and applications are network-dependent and may not be available in all areas; additional terms, conditions and/or charges may apply. Contact your service provider for details.

All features, functionality and other product specifications, as well as the information contained in this guide, are based upon the latest available information and believed to be accurate at the time of printing. Motorola reserves the right to change or modify any information or specifications without notice or obligation.

**Note:** the images in this guide are examples only.

MOTOROLA and the Stylised M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC. Android, Google and other trademarks are owned by Google Inc. The Android robot is reproduced or modified from work created and shared by Google and used according to terms described in the Creative Commons 3.0 Attribution Licence. All other product or service names are the property of their respective owners.

© 2017 Motorola Mobility LLC. All rights reserved.

**Caution:** Motorola does not take responsibility for changes/modification to the transceiver.

Manual Number: 711608013201-A