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## Motorola XT2403-2

# Motorola Moto Edge 50 Pro 5G Ai User Manual

Model: XT2403-2

## 1. INTRODUCTION

Welcome to the user manual for your new Motorola Moto Edge 50 Pro 5G Ai smartphone. This guide provides essential information to help you set up, operate, maintain, and troubleshoot your device. The Motorola Moto Edge 50 Pro 5G Ai is a high-performance smartphone featuring advanced camera capabilities, a vibrant pOLED display, and powerful processing, designed to enhance your mobile experience. This specific bundle includes the smartphone along with Buds+ and Bose Headphones.



Figure 1.1: Motorola Moto Edge 50 Pro 5G Ai smartphone with Buds+ and Bose Headphones.

## 2. SETUP

### 2.1 Unboxing and Initial Inspection

Carefully unbox your new device. The package should contain the Motorola Moto Edge 50 Pro 5G Ai smartphone, a phone case, and a power adapter. Inspect all components for any signs of damage. If any items are missing or damaged, contact your retailer immediately.

### 2.2 SIM Card Installation

The Moto Edge 50 Pro 5G Ai supports dual Nano SIM cards. This device does **not** have a MicroSD slot. To install your SIM cards:

1. Locate the SIM tray on the side of the phone.
2. Insert the SIM ejector tool into the small hole next to the tray and push gently until the tray pops out.
3. Place your Nano SIM cards into the designated slots on the tray, ensuring the gold contacts face downwards.
4. Carefully reinsert the SIM tray into the phone until it clicks into place.

**Note on Network Compatibility:** For users in the USA, this phone is globally unlocked but primarily works on T-Mobile, Metro, Mint, Tello, or any network operating under the T-Mobile infrastructure. Outside the USA, it is compatible with any carrier worldwide.

## 2.3 Initial Power On and Setup Wizard

Press and hold the power button until the Motorola logo appears. Follow the on-screen instructions to complete the initial setup, including language selection, Wi-Fi connection, Google account sign-in, and security settings.

## 2.4 Charging the Device

Before first use, it is recommended to fully charge your device. The Moto Edge 50 Pro 5G Ai supports 125W TurboPower charging, allowing for rapid charging. You can achieve a full charge in as little as 18 minutes, or gain power for a full day's use in approximately 4 minutes.



Figure 2.1: Front view of the Motorola Moto Edge 50 Pro 5G Ai.

## 3. OPERATING THE DEVICE

### 3.1 Display Features

Your device features a 6.7-inch Super HD (1220p) pOLED display. Key display characteristics include:

- **HDR10+ and 10-bit Color:** Supports over a billion shades of color for rich, vibrant visuals.
- **100% DCI-P3 Color Space:** Ensures accurate color reproduction.
- **144 Hz Refresh Rate:** Provides silky smooth scrolling and gaming experiences.
- **360 Hz Touch Rate (Gaming Mode):** Offers highly responsive touch input for gaming.
- **DC Dimming:** Reduces screen flickering at low brightness.
- **Peak Brightness:** Up to 2000 nits for excellent visibility even in bright conditions.

## 3.2 Camera System

The Moto Edge 50 Pro 5G Ai is equipped with a versatile triple camera system and a high-resolution front camera:

- **Main Camera:** 50 MP with f/1.4 aperture, 1.0  $\mu\text{m}$  pixel size (2.0  $\mu\text{m}$  with Quad Pixel Technology), Omni-directional PDAF, and Optical Image Stabilization (OIS).
- **Ultrawide/Macro Camera:** 13 MP with 120° FOV, f/2.2 aperture, 1.12  $\mu\text{m}$  pixel size, and autofocus, supporting Macro Vision for close-up shots.
- **Telephoto Camera:** 10 MP with 3x Optical Zoom, f/2.0 aperture, 1.0  $\mu\text{m}$  pixel size, autofocus, and Optical Image Stabilization (OIS).
- **Front Camera:** 50 MP with f/1.9 aperture, 0.64  $\mu\text{m}$  pixel size (1.28  $\mu\text{m}$  with Quad Pixel Technology), and autofocus.

The device also features generative AI capabilities, allowing you to create unique wallpapers and device themes by simply snapping a photo of your outfit or any interesting pattern.



Figure 3.1: Rear view of the Motorola Moto Edge 50 Pro 5G Ai, showing the camera array.

### 3.3 Performance

Powered by the Snapdragon 7 Gen 3 Mobile Platform, featuring a 2.63GHz Qualcomm Kryo CPU, Qualcomm Adreno GPU, and Qualcomm Hexagon NPU, the device delivers robust performance for demanding applications and multitasking. It comes with 12 GB of RAM for smooth operation.

### 3.4 Security Features

Your device includes multiple security options to protect your data:

- **On-screen Fingerprint Reader:** For quick and secure unlocking.
- **Face Unlock:** Convenient facial recognition for access.
- **ThinkShield and Moto Secure:** Enhanced security features provided by Motorola.

### 3.5 Connectivity

The Moto Edge 50 Pro 5G Ai offers comprehensive connectivity options:

- **Cellular:** Supports 5G, 4G (LTE), 3G, and 2G networks across various bands.
- **Wi-Fi:** 802.11 a/b/g/n/ac/ax (Wi-Fi 6E) across 2.4 GHz, 5 GHz, and 6 GHz bands, with Wi-Fi hotspot capability.
- **Location Services:** GPS, AGPS, LTEPP, SUPL, Glonass, Galileo, and Navic for accurate positioning.

- **NFC:** For contactless payments and quick pairing.

### 3.6 Operating System

The device runs on Android 14, providing the latest features and security updates from Google.

### 3.7 Water Protection

The Moto Edge 50 Pro 5G Ai has an IP68 rating for water and dust resistance, meaning it can withstand immersion in up to 1.5 meters of fresh water for up to 30 minutes. This protection is not permanent and may decrease over time with normal wear.

## 4. MAINTENANCE

### 4.1 Cleaning

To clean your device, use a soft, lint-free cloth. For stubborn smudges, slightly dampen the cloth with water. Avoid using harsh chemicals, abrasive materials, or compressed air, as these can damage the screen or finish.

### 4.2 Software Updates

Regularly check for and install software updates to ensure your device has the latest features, security patches, and performance improvements. You can usually find this option in the phone's settings under 'System updates' or 'Software update'.

### 4.3 Battery Care

To maximize your battery's lifespan:

- Avoid extreme temperatures.
- Do not let the battery drain completely before recharging frequently.
- Use the original Motorola charger and cable for optimal charging performance.

## 5. TROUBLESHOOTING

This section addresses common issues you might encounter with your Motorola Moto Edge 50 Pro 5G Ai.

Problem	Possible Solution
Device not powering on	Ensure the battery is charged. Connect to the charger for at least 15 minutes, then try powering on again. If unresponsive, perform a force restart by holding the power button for 10-15 seconds.
Poor network signal or no service	Check SIM card installation. Ensure you are within network coverage. Restart the device. Verify network settings (APN, preferred network type). Remember USA network limitations (T-Mobile based carriers only).
Battery draining quickly	Reduce screen brightness. Close unused apps running in the background. Disable unnecessary connectivity features (Wi-Fi, Bluetooth, GPS) when not in use. Check battery usage in settings to identify power-hungry apps.

Problem	Possible Solution
Apps crashing or freezing	Clear the app's cache and data in settings. Update the app to its latest version. If the issue persists, uninstall and reinstall the app. Ensure your phone's operating system is up to date.
Touchscreen unresponsive	Restart the device. Ensure the screen is clean and dry. Remove any screen protectors or cases that might interfere with touch sensitivity.

For more complex issues or problems not listed here, please refer to Motorola's official support website or contact their customer service.

## 6. SPECIFICATIONS

Below are the key technical specifications for the Motorola Moto Edge 50 Pro 5G Ai (Model XT2403-2):

Feature	Specification
Model Name	EDGE 50 PRO 5G
Item Model Number	XT2403-2
Product Dimensions	6.35 x 2.85 x 0.32 inches
Item Weight	6.6 ounces (186 Grams)
Operating System	Android 14
Processor	Snapdragon 7 Gen 3 Mobile Platform (2.63GHz Qualcomm Kryo CPU)
RAM Memory Installed Size	12 GB
Screen Size	6.67 Inches
Display Technology	pOLED, Super HD (1220p), HDR10+, 144 Hz Refresh Rate, 2000 nits Peak Brightness
Rear Camera	50 MP Main (OIS), 13 MP Ultrawide/Macro, 10 MP Telephoto (3x Optical Zoom, OIS)
Front Camera	50 MP (Autofocus)
Battery Power Rating	4500 Milliamp Hours (Lithium Ion)
Charging	125W TurboPower Fast Charging Support
Wireless Carrier	Unlocked (USA: T-Mobile/Metro/Mint/Tello compatible)
Cellular Technology	5G
Wireless Network Technology	GSM, Wi-Fi 6E (802.11 a/b/g/n/ac/ax), NFC
Water Protection	IP68

Feature	Specification
What's in the Box	Phone Case, Power Adapter
Date First Available	June 19, 2025

## 7. WARRANTY AND SUPPORT

### 7.1 Warranty Information

Your Motorola Moto Edge 50 Pro 5G Ai is covered by a manufacturer's limited warranty. Please refer to the warranty card included in your product packaging or visit the official Motorola website for detailed terms and conditions regarding warranty coverage, duration, and claims procedures.

### 7.2 Customer Support

For further assistance, technical support, or service inquiries, please visit the official Motorola support website or contact their customer service hotline. You can find contact information and frequently asked questions on the Motorola support page: [www.motorola.com/us/support](http://www.motorola.com/us/support)