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Ulefone Ulefone Armor 28 Ultra Thermal

Ulefone Armor 28 Ultra Thermal Version User Manual

Model: Ulefone Armor 28 Ultra Thermal

1. Introduction

Welcome to the Ulefone Armor 28 Ultra Thermal Version user manual. This rugged smartphone is designed for durability and high performance, featuring advanced thermal imaging capabilities, a powerful processor, and robust construction. This manual provides essential information to help you set up, operate, maintain, and troubleshoot your device.



Image: The Ulefone Armor 28 Ultra Thermal Version, highlighting its epic performance and frontier technology.

2. What's in the Box

Please check the contents of your package. If any items are missing or damaged, contact customer support.

- Ulefone Armor 28 Ultra Thermal Phone
- AC power charger (100~240V)
- Type-C to Type-C Data cable (100cm)
- Screen Protector (pre-applied or in box)
- SIM Tray Ejector
- Lanyard

3. Product Overview

The Ulefone Armor 28 Ultra Thermal is a robust smartphone designed for demanding environments, integrating cutting-edge technology with extreme durability.

Key Features:

- **AI-Powered Thermal Imaging:** Features a 640 x 512 resolution, 25Hz refresh rate ThermoVue T2 chip for accurate thermal analysis.
- **MediaTek Dimensity 9300+ Processor:** 4nm chipset with speeds up to 3.4GHz for powerful and efficient performance.
- **Memory & Storage:** Up to 32GB RAM (16GB physical + 16GB virtual) and 1TB ROM, expandable up to 2TB via SD card.
- **Advanced Camera System:** Includes a 50MP 1-inch type IMX989 main sensor (8K video), 50MP ultra-wide/macro lens, 64MP night vision camera with 4 IR LEDs, and a 50MP front camera.
- **Dual AMOLED Displays:** A 6.67-inch flexible AMOLED main display (120Hz, 2200 nits peak brightness) and a 1.04-inch AMOLED sub-display for quick access and notifications.
- **Long-lasting Battery:** 5300mAh battery with 120W fast charging (40% in 10 minutes) and 50W wireless charging.
- **Rugged Durability:** MIL-STD 810G, IP68, and IP69K certified for water, dust, and drop resistance, protected by Corning Gorilla Glass 5.
- **Connectivity:** Global 5G network support, Wi-Fi 7, Bluetooth 5.4, NFC, IR Blaster, USB 3.2 Gen 2.



Image: Front and rear view of the Ulefone Armor 28 Ultra Thermal Version, showcasing its rugged design and camera module.



Image: An infographic detailing the Ulefone Armor 28 Ultra's leading features, including its processor, thermal imaging, display, storage, and charging capabilities.

4. Setup

4.1. Inserting SIM Cards and SD Card

1. Locate the SIM card tray on the side of the phone.
2. Use the provided SIM tray ejector tool to open the tray.
3. Carefully place your Nano-SIM cards and/or microSD card into the designated slots. Ensure the gold contacts are facing down.
4. Gently push the tray back into the phone until it clicks into place.



Image: Illustration of the phone's dual 5G connectivity, Wi-Fi 7 support, and the triple card slot for two SIM cards and one TF (microSD) card.

4.2. Initial Power On and Setup Wizard

1. Press and hold the Power button until the Ulefone logo appears.
2. Follow the on-screen instructions to complete the initial setup, including language selection, Wi-Fi connection, Google account login, and security settings (fingerprint/face ID).

4.3. Charging the Device

1. Connect the provided Type-C cable to the phone's charging port.
2. Connect the other end of the cable to the AC power charger and plug it into a wall outlet.
3. For wireless charging, place the phone on a compatible 50W wireless charging pad (sold separately).



Image: Visual representation of the phone's 10600mAh battery, highlighting its 120W super flash charging, 50W wireless charging, and reverse charging capabilities.

5. Operating Your Device

5.1. Main Display and Sub-Display

The 6.67-inch AMOLED main display offers vibrant visuals and a smooth 120Hz refresh rate. The 1.04-inch AMOLED sub-display on the rear provides quick access to notifications, music controls, and camera functions.



Image: The phone's 6.67-inch AMOLED main display and the customizable watch face options for the 1.04-inch rear sub-display, including selfie camera controls.

Video: A demonstration of the Ulefone Armor 28 Ultra's sub-display functionality, showing how to interact with its various features.

5.2. Camera Functions

The phone features a versatile camera system:

- **50MP Main Camera:** For high-resolution photos and 8K video recording.
- **50MP Ultra-wide/Macro Lens:** Capture expansive scenes or detailed close-ups.
- **64MP Night Vision Camera:** Utilizes 4 IR LEDs for clear images in low-light or complete darkness.
- **50MP Front Camera:** For high-quality selfies and video calls.



Image: An overview of the phone's Ultra Camera system, including its various lenses and capabilities such as 8K video recording and night vision.

5.3. Thermal Imaging

The AI-powered thermal imaging system provides accurate temperature readings and visual heat maps. Access the thermal imaging application to utilize this feature for various inspections and analyses.

Video: A showcase of the Ulefone Armor 28 Ultra Thermal's high-resolution thermal imaging capabilities, demonstrating its clarity compared to other thermal phones.

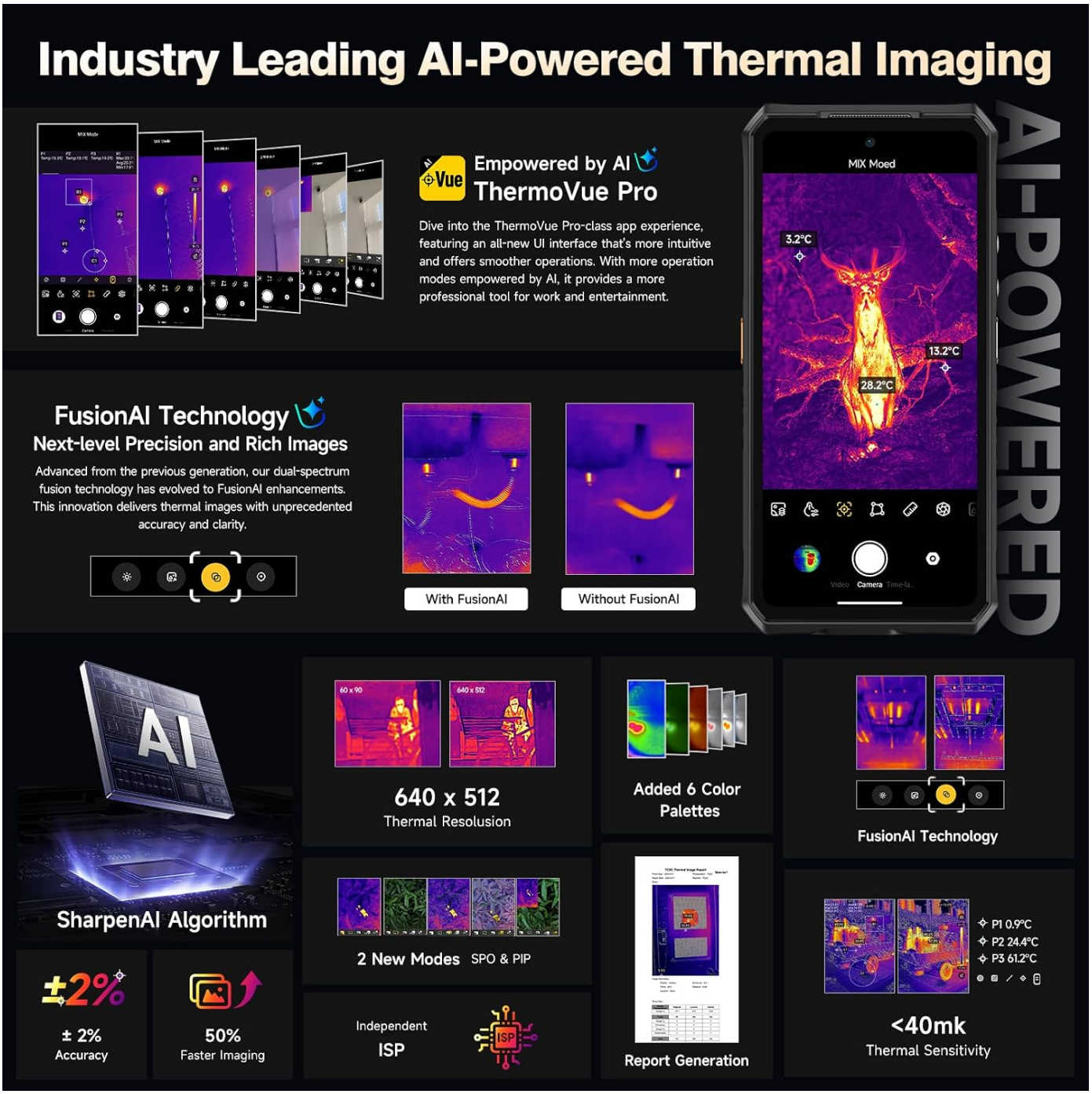


Image: Detailed information on the phone's AI-powered thermal imaging, including FusionAI Technology, resolution, color palettes, and the SharpenAI Algorithm.

5.4. AI Toolbox

The Ulefone AI Toolbox offers several functions to enhance your experience:

- AI Removal
- AI Background
- AI Digital Human
- AI Photography

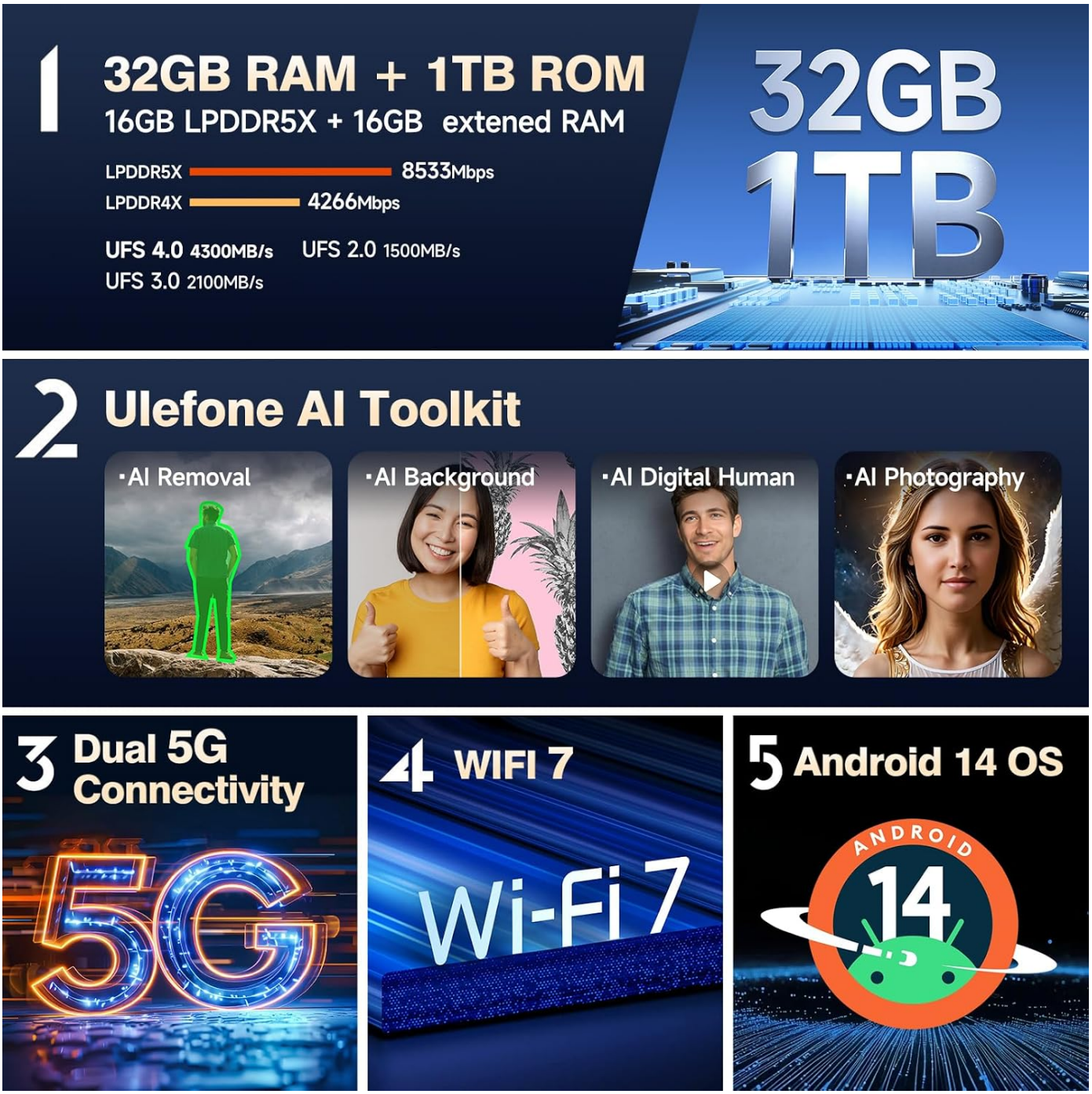


Image: An infographic illustrating the phone's memory and storage, along with the Ulefone AI Toolkit's various functions.

5.5. Other Features

- **uSmart Expansion Connector:** Connect compatible external modules like endoscopes or microscopes.
- **Fingerprint Unlock & Face ID:** Secure and convenient biometric authentication.
- **NFC:** For contactless payments and data transfer.
- **IR Blaster:** Control compatible infrared devices.
- **Custom Key:** Program a physical button for quick access to a specific function or app.
- **Outdoor Toolbox:** A suite of utility tools for outdoor activities.



Image: The Ulefone Armor 28 Ultra's ruggedness ratings (P68/IP69K, MIL-STD-810H) and the uSmart Expansion Connector, demonstrating its compatibility with various external tools.

6. Maintenance

To ensure the longevity and optimal performance of your Ulefone Armor 28 Ultra Thermal, follow these maintenance guidelines:

- **Cleaning:** Wipe the phone with a soft, damp cloth. Avoid harsh chemicals or abrasive materials. For the thermal camera lens, use a lens cleaning cloth.
- **Water Resistance:** While the phone is IP68/IP69K rated, ensure all port covers are securely closed before exposing it to water. Do not intentionally submerge the phone in corrosive liquids.
- **Temperature:** Avoid exposing the phone to extreme temperatures (very hot or very cold) for extended periods.
- **Charging:** Use only the original charger and cable or certified compatible accessories to prevent damage to the battery.
- **Software Updates:** Regularly check for and install system updates (OTA) to ensure your device has the latest

features, security patches, and performance improvements.

7. Troubleshooting

If you encounter issues with your device, refer to the following common solutions:

Problem	Possible Solution
Phone does not power on	Ensure the battery is charged. Connect to the charger for at least 10 minutes. If still unresponsive, perform a forced restart by holding the Power button for 10-15 seconds.
Poor network signal	Check if SIM card is properly inserted. Move to an area with better network coverage. Restart the phone. Contact your network provider.
Thermal imaging not working	Ensure the thermal camera lens is clean and unobstructed. Restart the thermal imaging application or the phone. Check for software updates.
Battery drains quickly	Close unused apps running in the background. Reduce screen brightness. Disable Wi-Fi, Bluetooth, GPS when not in use. Check for power-intensive apps in battery usage settings.
Apps crashing or freezing	Clear the cache and data of the problematic app (Settings > Apps). Update the app to the latest version. If the issue persists, uninstall and reinstall the app.

If the problem persists after trying these solutions, please contact Ulefone customer support.

8. Specifications

Detailed technical specifications for the Ulefone Armor 28 Ultra Thermal Version:

Feature	Specification
Model Name	Ulefone Armor 28 Ultra Thermal
Operating System	Android 14 (upgradeable to Android 15)
Processor	MediaTek Dimensity 9300+ (4nm, up to 3.4 GHz)
RAM	32 GB (16GB physical + 16GB virtual)
Internal Storage	1 TB (expandable up to 2 TB via microSD)
Main Display	6.67 Inches AMOLED, 120 Hz Refresh Rate, 2200 nits Peak Brightness, 1080 x 2460 Resolution
Sub-Display	1.04 Inches AMOLED
Main Camera	50 MP (Sony IMX989 1" sensor), 8K Video Recording
Ultra-wide/Macro Camera	50 MP (117° FOV)
Night Vision Camera	64 MP (OV64B sensor, 4 IR LEDs)
Front Camera	50 MP

Feature	Specification
Thermal Imaging	640 x 512 Resolution, 25Hz Refresh Rate (ThermoVue T2 chip)
Battery Capacity	5300 Milliamp Hours
Wired Charging	120W Fast Charging
Wireless Charging	50W Wireless Charging, Wireless Reverse Charging
Ruggedness	IP68, IP69K, MIL-STD 810G, Corning Gorilla Glass 5
Connectivity	5G, Wi-Fi 7, Bluetooth 5.4, NFC, IR Blaster, USB 3.2 Gen 2
Dimensions	6.86 x 3.29 x 0.76 inches
Weight	10.6 ounces (301 Grams)

9. Warranty and Support

Ulefone provides a 12-month manufacturer warranty service in the US for the Armor 28 Ultra Thermal Version. For any questions, technical assistance, or warranty claims, please contact Ulefone customer support through their official channels or visit their website.
For more information and support, you can visit the Ulefone Store on Amazon.

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