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> Ulefone Armor 27T PRO 5G Rugged Smartphone User Manual

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Ulefone Armor 27T PRO 5G Rugged Smartphone User Manual

Model: Ulefone Armor 27T Pro | Brand: Ulefone

1. OVERVIEW

The Ulefone Armor 27T PRO 5G is a rugged smartphone designed for durability and high performance in challenging environments. It integrates advanced imaging capabilities, robust construction, and powerful hardware to meet the demands of professional and outdoor use. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device.



Figure 1: Front and rear view of the Ulefone Armor 27T PRO 5G, highlighting its rugged design and thermal imaging camera.

2. SETUP

2.1 Physical Overview

Familiarize yourself with the device's external components:

- **Volume Rocker:** Located on the side, controls audio volume.
- **Power Button:** Also on the side, used to power on/off the device and doubles as a fingerprint reader for secure unlocking.
- **Custom Key:** A programmable button that can be assigned to launch specific applications or functions.
- **USB Type-C Port:** Located at the bottom, used for charging and data transfer. It is protected by a watertight latch.
- **3.5mm Headphone Jack:** Located at the top, protected by a watertight latch.
- **SIM/SD Card Slot:** Located on the side, accessible via a tray. Supports dual 5G SIM cards and a microSD card for storage expansion.

- **IR Blaster:** Located at the top, allows the phone to function as a universal remote control.
- **Rear Camera Module:** Houses the 50MP main camera, 64MP night vision camera, thermal imaging sensor, LED flash, and infrared LEDs.
- **Front Camera:** 32MP selfie camera located on the display.

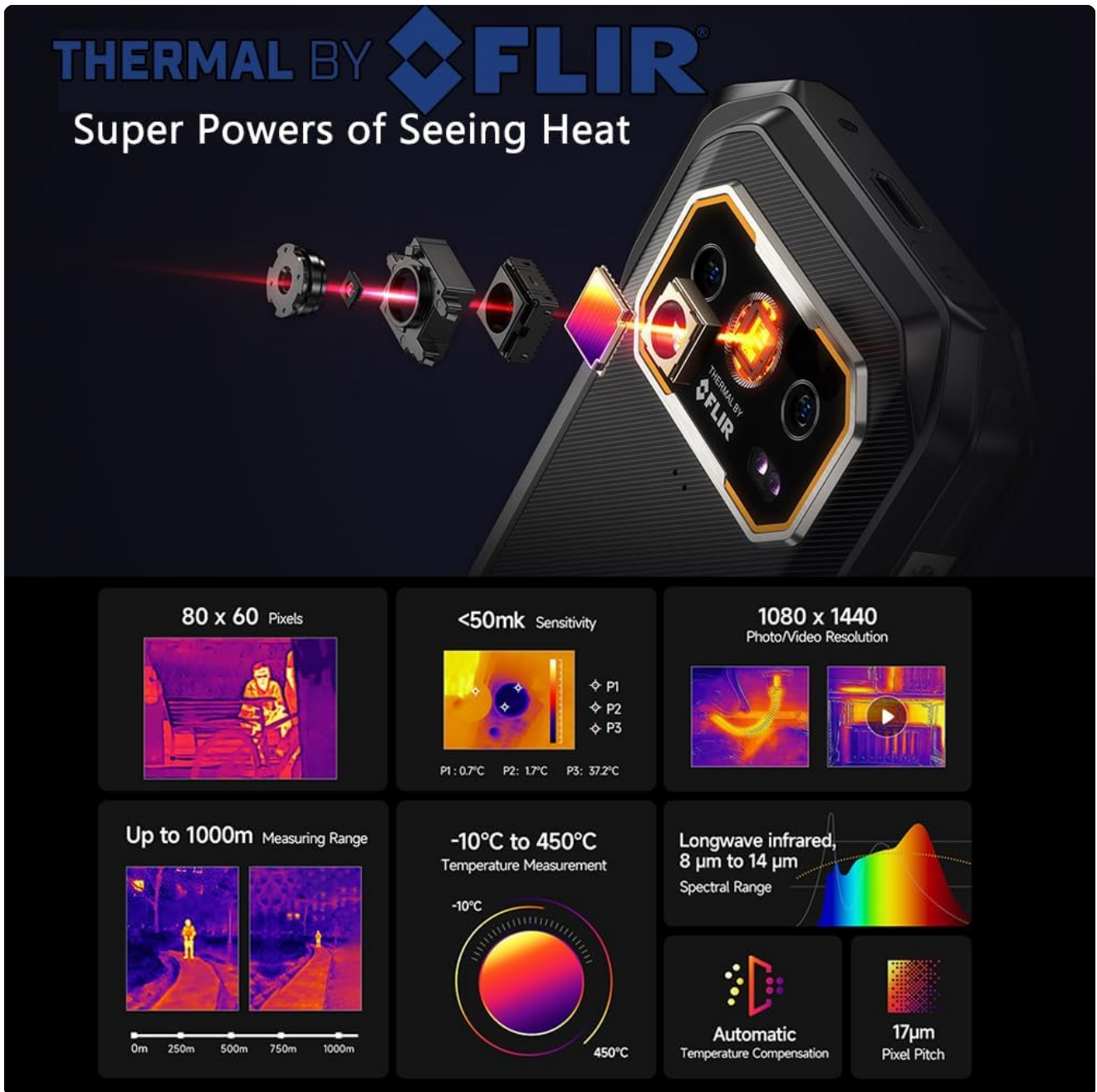


Figure 2: Side view illustrating the volume rocker, power button, and custom key.

COMMUNICATION AND CONNECTIVITY

WIDER, SWIFTER, SMARTER

5G Network

Cutting-edge 5G technology empowers lightning-fast download and upload speeds, ultra-low latency, and enhanced network capacity.



WiFi 6

WiFi 6 offers faster wireless speeds, greater bandwidth, and improved efficiency for a smooth streaming and file transfer experience.



Bluetooth 5.2

Bluetooth 5.2 ensures a faster, more reliable connection with longer range and better power management.



Figure 3: Bottom view with the watertight cover for the USB Type-C port.

Up to 24GB RAM + 256GB ROM

Bulk Memory, Elite Performance

Armor 27T Pro operates smoothly with no lag with up to 24GB of memory. Spacious 256GB of internal storage and expandable up to 2TB spares a large room to store apps, photos, videos, and files.

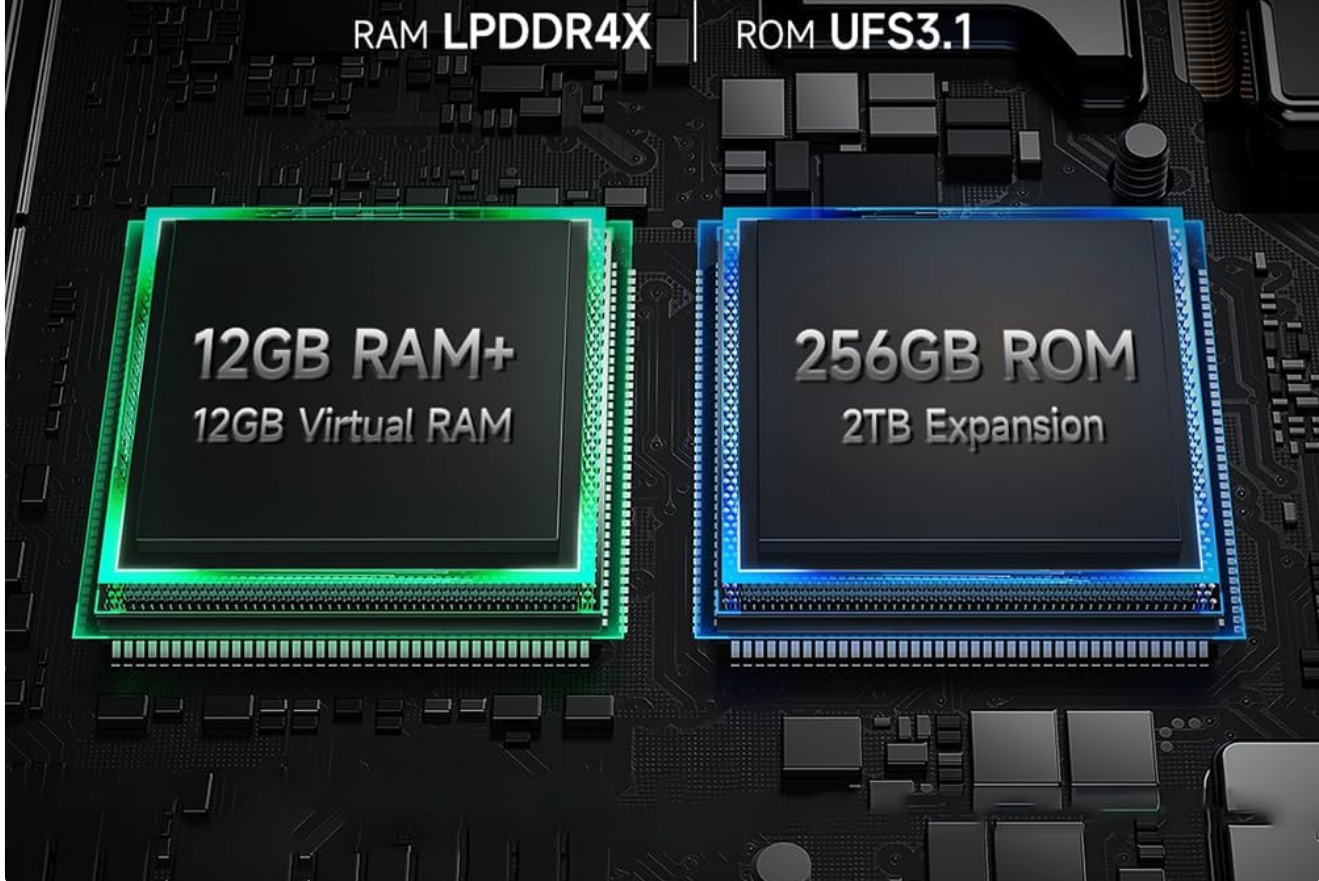


Figure 4: The SIM and microSD card tray, supporting dual 5G SIMs and up to 2TB expansion.

2.2 SIM Card and Storage Installation

1. Locate the SIM/SD card tray on the side of the device.
2. Insert the provided 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 and/or microSD card into the designated slots on the tray. Ensure correct orientation.
4. Carefully push the tray back into the device until it clicks into place.

2.3 Initial Power On

Press and hold the Power Button until the Ulefone logo appears. Follow the on-screen prompts to complete the initial setup, including language selection, Wi-Fi connection, and Google account sign-in.

3. OPERATING

3.1 Display and Navigation

The Armor 27T PRO features a 6.78-inch FHD+ display with a 120Hz refresh rate, providing a smooth visual experience.

The screen is protected by Corning Gorilla Glass Victus for enhanced durability against scratches and drops.

6.78" FHD+ 120Hz Display Boundless Entertainment

6.78-inch large screen provides an immersive viewing experience for multimedia. Boasting a resolution of 1080 x 2460 pixels, great sharpness and detail with lifelike colors burst off the display. 120Hz ultra-high refresh rate makes every motion smooth and fluid especially when delving into the world of gaming and in your favorite streams. It is legible under strong sunlight with a max brightness of 680 nits.



Figure 5: The vibrant 6.78-inch FHD+ display with 120Hz refresh rate.

3.2 Camera System

The device is equipped with a versatile triple professional imaging system:

- **50MP Main Camera:** Features a Sony IMX766 oversized sensor (1/1.31") and a 7P lens with OIS/EIS dual stabilization for high-quality photos and videos.
- **64MP Night Vision System:** Utilizes a Starlight 2.0 sensor (0.001lux sensitivity) and laser-assisted focus tracking (0.3s lock-on) for clear images in low-light conditions.
- **32MP Front Camera:** Equipped with dual-tone flash and gesture-controlled underwater selfie capabilities.

64MP Night Vision Camera NightElf Ultra 3.0 Algorithm

Assisted by IR night vision, Armor 27T Pro makes total darkness visible. Integrated with OMNIVISION's OV64B night vision camera, industry-leading 64MP high pixels, one press on the shutter to get sharp night shots. Upgraded Ulefone NightElf Ultra 3.0 algorithm with lesser interference results in detailed images and videos in low light conditions.

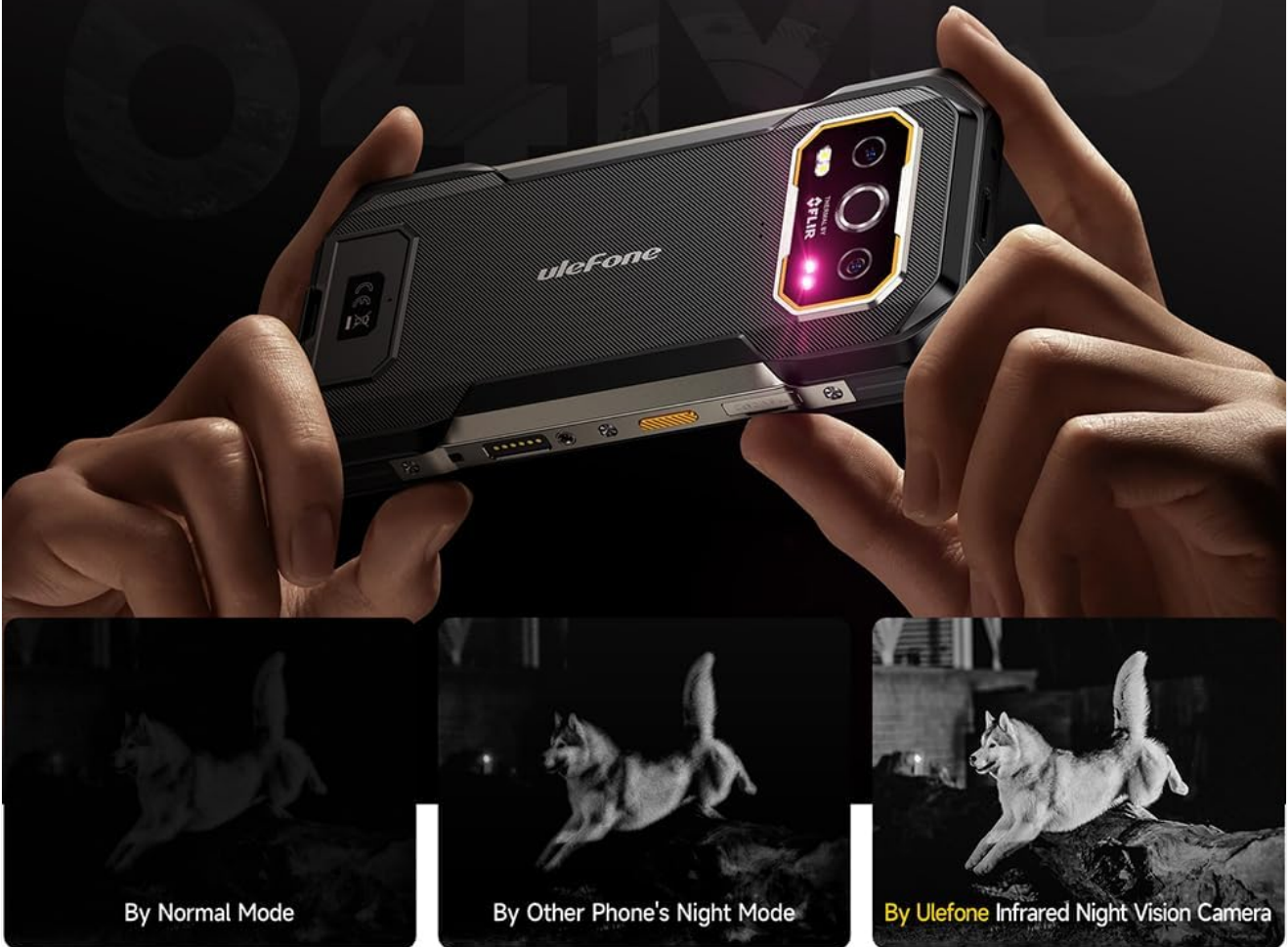


Figure 6: Example of image capture using the 64MP Night Vision Camera.

32MP Ultra-clear Selfie Camera

With the 32MP Selfie Camera featuring the Samsung GD1 Sensor, 5P lens, 80.4° field of view, capture stunning self-portraits and group shots with high image quality and finest details. Experience HD online meetings, video calls.



Figure 7: The 32MP front camera capturing a clear selfie.

3.3 Professional Thermal Imaging System

The integrated industrial-grade thermal camera offers 1440x1080 HD resolution and a temperature recognition range of -10°C to 450°C. It supports dual-spectrum imaging (Visible + Infrared fusion) and AI-enhanced detection. This feature is ideal for:

- Electrical systems inspection
- Pipeline integrity monitoring
- Wildlife observation
- Emergency heat source localization

THERMAL BY FLIR®

Super Powers of Seeing Heat



Figure 8: Detailed specifications and applications of the Thermal by FLIR camera.

Video 1: An overview of the Ulefone Armor 27T PRO 5G Rugged Smartphone, demonstrating its thermal imaging, ruggedness, and other key features.

3.4 Performance

Powered by the MTK Dimensity 6300 6nm Octacore processor clocked at 2.4GHz, the Armor 27T PRO delivers cutting-edge speed and performance. It comes with 12GB of LPDDR4X RAM, expandable up to 24GB with 12GB of virtual RAM, ensuring smooth multitasking. The device offers 256GB of UFS 2.2 internal storage, further expandable up to 2TB via a microSD card.

Up to 24GB RAM + 256GB ROM Bulk Memory, Elite Performance

Armor 27T Pro operates smoothly with no lag with up to 24GB of memory. Spacious 256GB of internal storage and expandable up to 2TB spares a large room to store apps, photos, videos, and files.

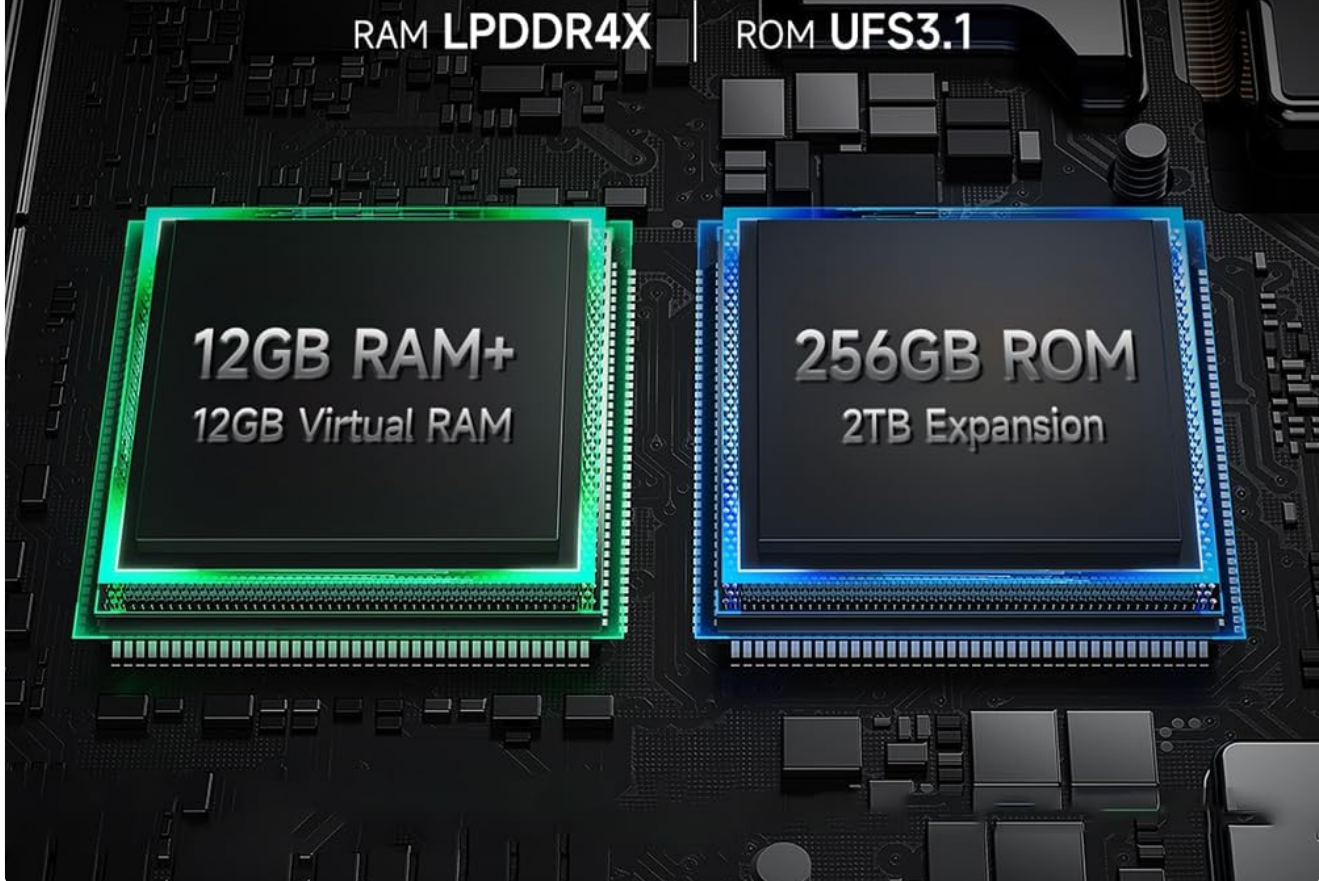


Figure 9: Illustration of the 24GB RAM (12GB physical + 12GB virtual) and 256GB ROM with 2TB expansion capability.

3.5 Battery and Charging

The Armor 27T PRO is equipped with a large 10600mAh battery, providing extended usage times. It supports 33W fast charging for quick power-ups and 30W wireless charging for convenience. Additionally, the device features OTG (On-The-Go) functionality, allowing it to charge other smart devices.

10600mAh Mega Battery
A Week Moderate Using

10600 mAh



576 Hours
Standby Time

58 Hours
Call Time

20 Hours
Video Playback

30W Fast Wireless Charging

Without cumbersome cables, simply place the handset on the stand for a rapid power boost with a maximum of 30W output. Enjoy streaming media while it charges, as the charger doubles as a sturdy phone holder.



Wireless Reverse Charging

Earbuds Watch Phone Others



Figure 10: Battery capacity and charging options, including 33W fast charging and 30W wireless charging.

33W Fast Charging

Quick top-ups and fully charged in a shorter time thanks to 33W fast charging. Less dependency on power outlet and fast a ready to use device when traveling or on the go.



Figure 11: Visual representation of the 33W fast charging capability.

3.6 Connectivity

The smartphone offers comprehensive connectivity options:

- **5G Network:** Provides high-speed mobile data connectivity.
- **Wi-Fi 6:** Ensures faster and more efficient wireless internet connections.
- **Bluetooth 5.2:** For reliable and power-efficient wireless peripheral connections.
- **NFC:** Enables contactless payments and quick pairing with compatible devices.
- **GPS:** Supports GPS, GLONASS, Beidou, and Galileo for accurate positioning.



Figure 12: Overview of the device's advanced communication and connectivity features.

3.7 Software Features

The Armor 27T PRO runs on Android 14, offering a personalized, secure, and accessible user experience. Key software features include:

- **Custom Key:** Assign specific actions or app launches to the physical custom button.
- **Outdoor Toolbox:** A suite of pre-installed tools useful for outdoor activities.
- **IR Blaster:** Control compatible home appliances.
- **Headset-free FM:** Listen to FM radio without needing a wired headset as an antenna.
- **Face Unlock + Fingerprint ID:** Multiple secure unlocking methods.

4. MAINTENANCE

4.1 Ruggedness and Durability

The Ulefone Armor 27T PRO is built to withstand harsh conditions, certified with:

- **IP68:** Dust and water resistant (submersible up to 1.5 meters for 30 minutes).
- **IP69K:** Resistant to high-pressure, high-temperature water jets.
- **MIL-STD-810H:** Military-grade standard for resistance to drops, shocks, extreme temperatures, and more.

Ensure all port covers are securely closed to maintain water and dust resistance.



Figure 13: The Ulefone Armor 27T PRO demonstrating its water resistance.

4.2 Cleaning

To clean your device, use a soft, damp cloth. Avoid using harsh chemicals or abrasive materials that could damage the phone's surface or protective coatings. For stubborn dirt, a mild soap solution can be used, followed by rinsing with clean water and thorough drying.

4.3 Software Updates

Regularly check for and install software updates to ensure optimal performance, security, and access to the latest features. Updates can typically be found in the device's settings under 'System' or 'About phone'.

5. TROUBLESHOOTING

If you encounter issues with your Ulefone Armor 27T PRO, consider the following basic troubleshooting steps:

- **Device Unresponsive:** Press and hold the Power Button for about 10-15 seconds to force a restart.
- **Network Issues:** Check if your SIM card is properly inserted. Try toggling Airplane Mode on and off. Verify your mobile data settings.
- **Charging Problems:** Ensure the USB-C cable is securely connected and the port cover is fully open during charging. Try a different charger and cable.
- **App Malfunctions:** Clear the cache and data of the problematic app in 'Settings > Apps'. If the issue persists, uninstall and reinstall the app.
- **Thermal Camera Not Working:** Ensure the MyFLIR Pro app is updated and has necessary permissions. Check for any physical obstructions on the thermal sensor.
- **Factory Reset:** As a last resort, if software issues persist, you may perform a factory reset. Back up all important data before proceeding, as this will erase all data on the device. Navigate to 'Settings > System > Reset options > Erase all data (factory reset)'.

6. SPECIFICATIONS

Feature	Specification
Model Name	Ulefone Armor 27T Pro
Operating System	Android 14
Processor	MTK Dimensity 6300 (6nm Octacore 2.4GHz)
RAM	12GB LPDDR4X (Up to 24GB with virtual RAM)
Internal Storage	256GB UFS 2.2
Expandable Storage	Up to 2TB (microSD)
Display Size	6.78 Inches
Display Resolution	1080 x 2408 (FHD+)
Refresh Rate	120 Hz
Display Protection	Corning Gorilla Glass Victus
Main Camera	50MP (Sony IMX766)
Night Vision Camera	64MP (Starlight 2.0 sensor)
Front Camera	32MP
Thermal Imaging Camera	1440x1080 HD, -10°C to 450°C range
Battery Capacity	10600mAh
Fast Charging	33W
Wireless Charging	30W
Ruggedness	IP68, IP69K, MIL-STD-810H
Dimensions	3.42 x 3.41 x 0.73 inches
Item Weight	1.8 pounds
Connectivity	5G, Wi-Fi 6, Bluetooth 5.2, NFC, GPS
Audio Jack	3.5 mm

7. WARRANTY AND SUPPORT

The Ulefone Armor 27T PRO 5G comes with a **2-Year Global Warranty**. For any technical issues or support inquiries, a dedicated support team is available 24/7. Please refer to the contact information provided in your product packaging or visit the official Ulefone support website for assistance.

