

Ulefone Ulefone Armor Mini 20

Ulefone Armor Mini 20 4G Rugged Phone User Manual

Model: Ulefone Armor Mini 20

INTRODUCTION

The Ulefone Armor Mini 20 is a compact and robust 4G rugged smartphone designed for durability and performance in challenging environments. It features advanced camera capabilities, a long-lasting battery, and a highly resilient build, making it suitable for outdoor enthusiasts and professionals alike. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device.



Image: The Ulefone Armor Mini 20 rugged phone, showcasing its compact size and durable design.

WHAT'S IN THE BOX

Verify that all items are present in your product package:

- AC power charger (100~240V)
- Type-C to Type-C Data cable (100cm)
- Screen Protector
- SIM Tray Ejector
- Lanyard

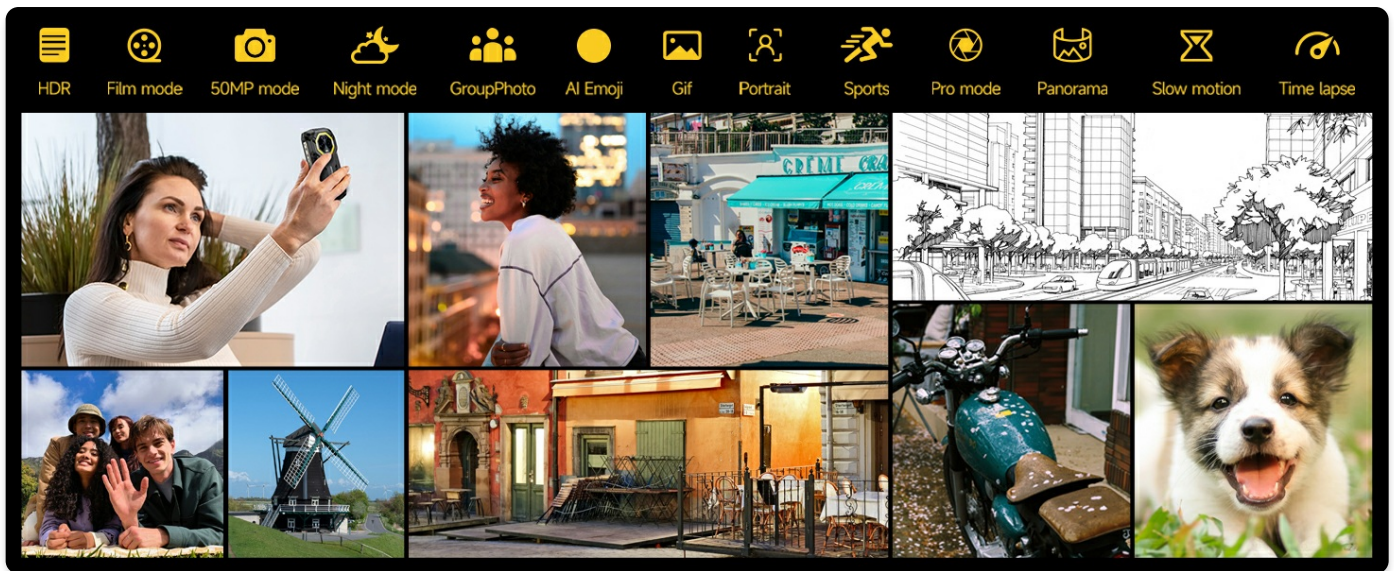


Image: All components included in the Ulefone Armor Mini 20 retail package.

SETUP

1. Charging the Device

Before first use, fully charge the Ulefone Armor Mini 20 using the provided AC power charger and Type-C cable. The device supports 33W fast charging and 15W wireless charging.



Image: The Ulefone Armor Mini 20 connected to its charger, illustrating both wired and wireless charging capabilities.

2. Installing SIM Card and TF Card

Locate the SIM tray on the side of the device. Use the provided SIM tray ejector tool to open the tray. Insert your Nano-SIM card(s) and/or a TF card (up to 2TB supported) into the designated slots. Ensure the tray is securely closed to maintain the device's waterproof integrity.

3. Powering On/Off

- To power on: Press and hold the Power button until the Ulefone logo appears.
- To power off: Press and hold the Power button, then select "Power off" from the options.
- To restart: Press and hold the Power button, then select "Restart" from the options.

Compact Design and Display

The Armor Mini 20 features a compact 4.7-inch HD+ display with 720 x 1600 resolution, 373 PPI, 700 nits brightness, and a 90Hz refresh rate. Its credit card-like width allows for comfortable one-handed operation and easy portability.

All in 4.7" HD+ Display

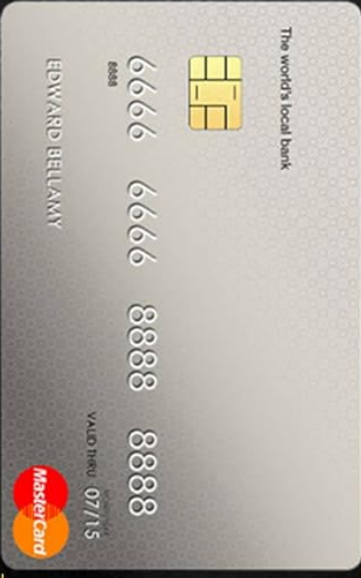
Corning Gorilla Glass Victus

 **720 x 1600**
Resolution

 **373**
PPI

 **700nits**
Max Brightness

 **90Hz**
Refresh Rate



**85.6 mm/
3.37-inch**

53.98 mm/2.12-inch



**133.3 mm/
5.25-inch**

63.3 mm/2.49-inch



Image: The Ulefone Armor Mini 20 demonstrating its compact size compared to a credit card, highlighting ease of handling.

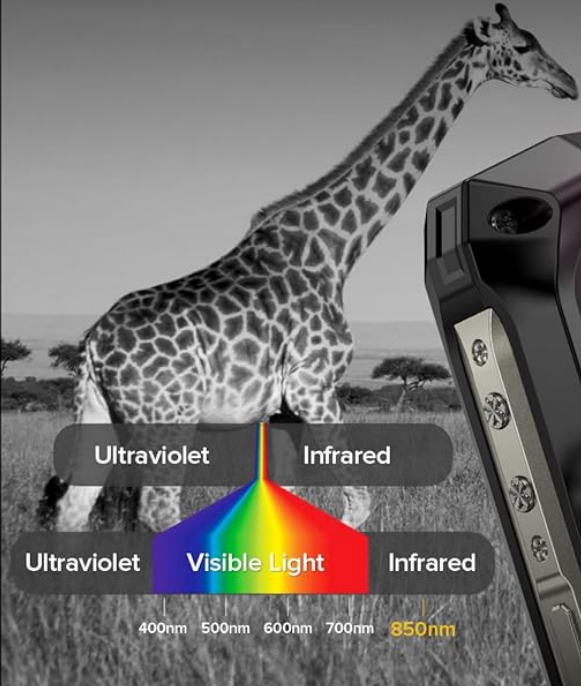
Camera Features

The device is equipped with a versatile camera system:

- **64MP Night Vision Camera:** Housed with OMNIVISION'S OV64B sensor and two infrared LEDs, featuring an upgraded Ulefone NightElf Ultra 3.0 algorithm for clear images and videos in dark environments.
 - **50MP Main Camera:** Adopts a 1/1.31" ultra-large Samsung ISOCELL GN1 image sensor with a 1.2um pixel size and F/1.95 aperture for high-resolution photos.
 - **32MP Selfie Camera:** Features the Samsung GD1 Sensor, 5P lens, and an 80.4° field of view for clear self-portraits.
-

64MP Night Vision Camera

NightElf Ultra 3.0 Algorithm



Ultraviolet

Infrared

Ultraviolet

Visible Light

Infrared

400nm 500nm 600nm 700nm 850nm



50MP Main Camera

Enlargement Is Still Clear

50MP





32MP Ultra-clear Selfie Camera

Easy Selfies





Image: Detailed view of the Ulefone Armor Mini 20's camera system, highlighting the 64MP Night Vision, 50MP Main, and 32MP Selfie cameras.

Night Vision Camera Demonstration

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Video: A demonstration of the Ulefone Armor Mini 20's 64MP Night Vision camera capabilities in low-light conditions.

Performance and Storage

Powered by the MediaTek Helio G99 2.2GHz 8-core CPU and 6nm SoC, the Armor Mini 20 offers robust performance. It comes with 8GB RAM (expandable up to 8GB virtual RAM for a total of 16GB) and 256GB of internal storage, expandable via TF card up to 2TB.

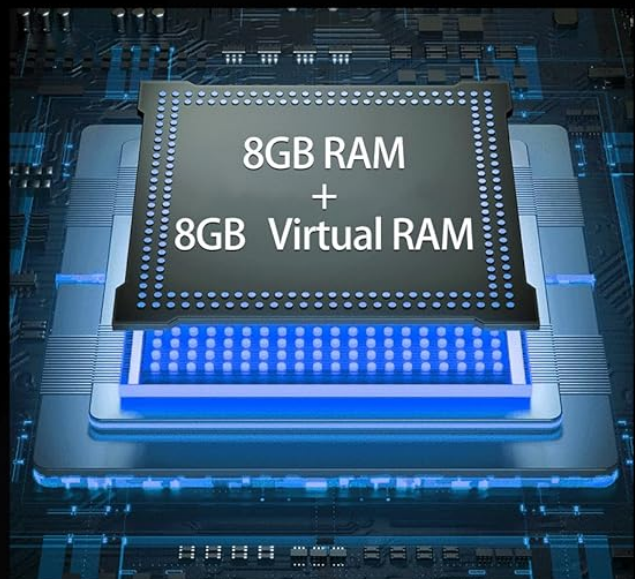
MediaTek Helio G99

Up to 16GB RAM+256GB ROM



6nm
Advanced Process

Cortex-A76
Hyper-fast Performance



Up to 2.2GHz
Clock Speed

3,69,410
AnTuTu Score

Image: Visual representation of the MediaTek Helio G99 processor, RAM, and ROM specifications of the Ulefone Armor Mini 20.

Battery Life

Equipped with a 6200mAh sub-zero solid-state battery, the device is designed to operate in extreme cold as low as -20 degrees Celsius. It offers up to 26 days of standby time with ultra power saving mode enabled. It supports 33W fast charge, 15W wireless charging, and reverse charging.

6200mAh Large Battery



336 Hours
Standby Time



34 Hours
Call Time



22 Hours
Video Playback





33W Fast Charging



15W Wireless Charging

Image: Overview of the Ulefone Armor Mini 20's 6200mAh battery, highlighting standby time, call time, and video playback duration.

Ruggedness and Durability

The Armor Mini 20 Pro rugged phone meets MIL-STD 810G standards and reaches IP68 and IP69K levels, providing

supreme protection against water, dust, dirt, sand, humidity, and salt mist. The 4.7-inch display is protected by Corning Gorilla Glass Victus, offering 4x higher scratch threshold and up to 2m drop resistance.

Your Ulefone Service Center



The image shows a Ulefone Armor Mini 20 smartphone with a service center overlay. The overlay includes a 'Customer Service' button, a 'FAQs Contact Us' button, and a 'Support' button. The phone is shown in a dark, rugged case.

Qualitat garantiert

 Tumble Test 300+ Times	 Mini Drop Test 5,000+ Times	 Screen Touch Test 100,000+ Times
 Multi-Angle Drop Test 200+ Times	 Keys Pressing Test 100,000+ Times	 USB Endurance Test 5,000+ Times

Image: The Ulefone Armor Mini 20 submerged in water, covered in dust, and surviving a drop, demonstrating its IP68, IP69K, and MIL-STD-810H certifications.

Versatile LED Light and Emergency Warning Light

The device features a versatile LED light with 130 LEDs and 500 lumens max brightness, offering different modes for camping, hiking, cycling, and general emergency lighting. It also includes an emergency warning light with simulated red light, blue light, and red-blue warning light functions.

Versatile LED Light



Camping



Hiking



Cycling



Emergency Lighting



Emergency Warning Light Portable Safety Tool



Blue light



Red light



Constant



Blink





IP68
Waterproof



IP69K
Dustproof



MIL-STD-810H
Certification





30 Minutes
2M Water Deep





Dust Proof





2M
Drop Resistance

Image: The Ulefone Armor Mini 20's versatile LED light in use for various outdoor activities and its emergency warning light function.

Hands-On and Features Overview Video

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Video: A comprehensive hands-on video showcasing the Ulefone Armor Mini 20 Pro's compact design, night vision camera, body camera holder, versatile LED light, and emergency warning light.

Android 14 OS and Other Features

The device runs on the newest Android 14 OS, offering enhanced privacy protection, improved photo quality, system stability enhancements, and multi-tasking interface refinement. Additional features include IR Remote, Fingerprint Unlock, NFC, Headset-Free FM Radio, Custom Key, Gloves Mode, Underwater Camera, Outdoor Toolbox, and multiple navigation systems (GPS+Glonass+QZSS+Galileo+BeiDou).

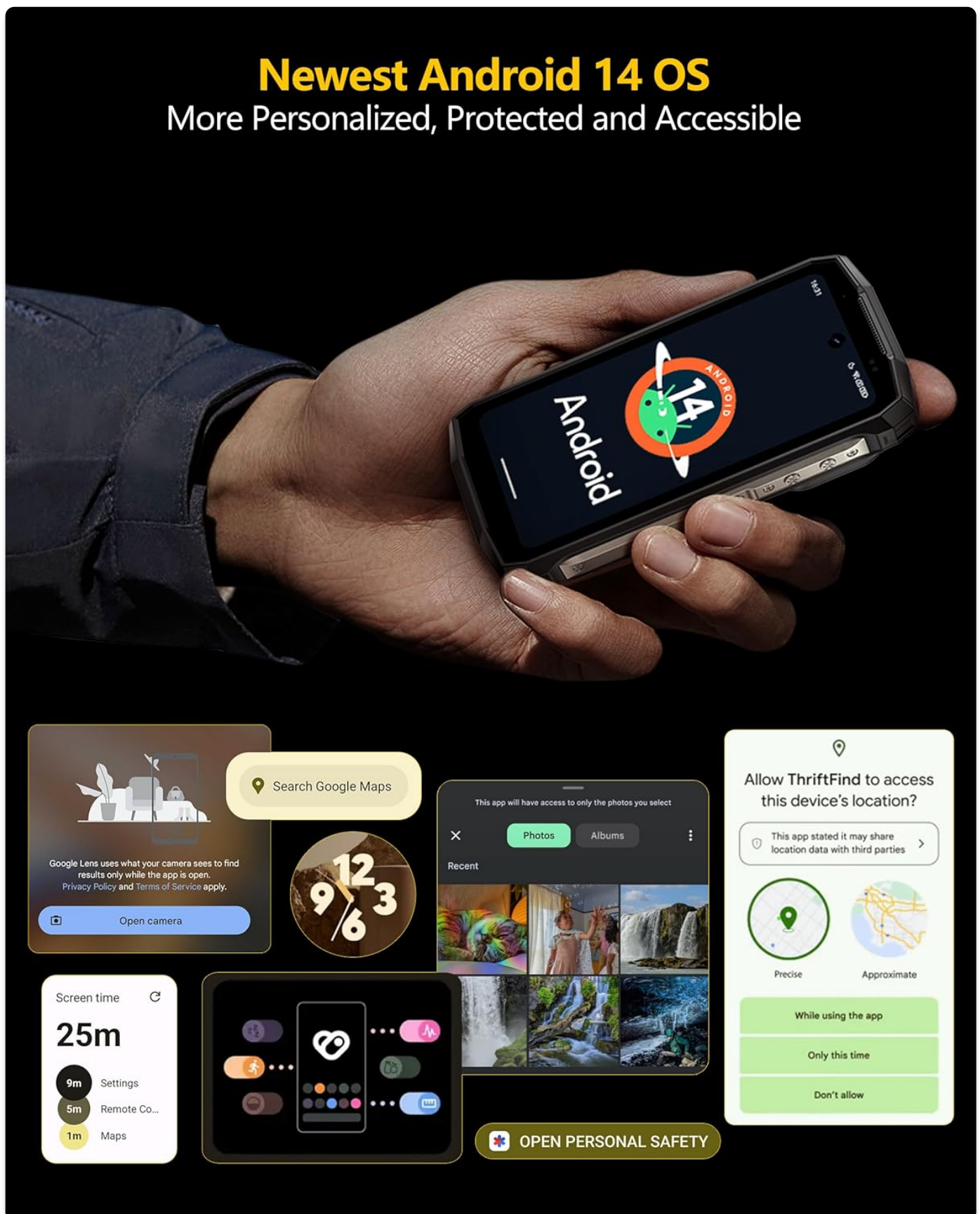


Image: Screenshots illustrating the Android 14 interface and various features like privacy controls, photo gallery, and location settings on the Ulefone Armor Mini 20.

MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Avoid harsh chemicals or abrasive materials.
- **Water and Dust Resistance:** Ensure all ports and covers are securely closed to maintain IP68/IP69K water and dust resistance. Do not intentionally submerge the device in corrosive liquids.
- **Temperature:** Avoid exposing the device to extreme temperatures outside its operating range (-20°C to 55°C).
- **Software Updates:** Regularly check for and install software updates to ensure optimal performance and security.

TROUBLESHOOTING

Problem	Possible Solution
Device won't power on	Ensure the battery is charged. Press and hold the Power button for at least 10 seconds.
Poor network signal	Check SIM card insertion. Move to an area with better network coverage. Restart the device.
Camera not working	Restart the camera app or the device. Ensure sufficient storage space.
Device is slow/unresponsive	Close background apps. Clear cache. Restart the device. Consider a factory reset if issues persist (backup data first).

SPECIFICATIONS

Feature	Detail
Brand	Ulefone
Model Name	Ulefone Armor Mini 20
Operating System	Android 14
Screen Size	4.7 Inches
Resolution	720 x 1600 (HD+)
Refresh Rate	90 Hz
CPU Speed	2.2 GHz (MediaTek Helio G99)
RAM Memory Installed Size	16 GB (8GB physical + 8GB virtual)
Memory Storage Capacity	256 GB (expandable up to 2TB via TF card)
Battery Capacity	6200 Milliamp Hours
Item Weight	301 Grams (10.6 ounces)
Dimensions	5.25 x 2.49 x 0.98 inches (133.5 x 63.3 x 24.9 mm)
Water/Dust Resistance	IP68/IP69K
Durability Standard	MIL-STD 810G
Screen Protection	Corning Gorilla Glass Victus

WARRANTY AND SUPPORT

Ulefone products typically come with a manufacturer's warranty. Please refer to the warranty card included in your product packaging for specific terms and conditions. For technical support, troubleshooting assistance, or warranty claims, please contact Ulefone customer service through their official website or the contact information provided in your product documentation.

You can also visit the [Ulefone Store on Amazon](#) for more information and support resources.

Documents - Ulefone – Ulefone Armor Mini 20



[\[pdf\]](#) Specifications
SpecSheet Ulefone Armor 17 Pro specsheet ulefone armor mini 20 pro MINI PRO 5G Rugged Waterproof Smartphone and Body Camera Phones Tablets Watches Shop Online GoRugged SA gorugged co za pf 6744876c056bb specsheet |||

Ulefone Armor Mini 20 pro The **Ulefone Armor Mini 20 Pro** is a rugged, compact smartphone built for extreme environments with MIL-STD-810H and IP68/IP69K ratings for water, dust, and drop resistance. It features a long-lasting 6200mAh battery with 33W fast charging and 15W wireless charging, deliver...

lang:en score:43 filesize: 5.86 M page_count: 2 document date: 2024-10-31



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GQ5010 Armor Mini 20T Pro cdr Administrator Mar 26 2025 — Questo manuale d istruzione è fornito da trovaprezzi.it Scopri tutte le offerte per Ulefone · 20 o cerca il tuo prodotto tra migliori ulefone armor mini pro manuali |||

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[UleFone Armor Mini 20 Pro Series User Manual](#)
Comprehensive user manual for the UleFone Armor Mini 20 Pro Series, covering setup, features, safety information, and warranty conditions. Includes details on card management, messaging, photography, and device specifications.

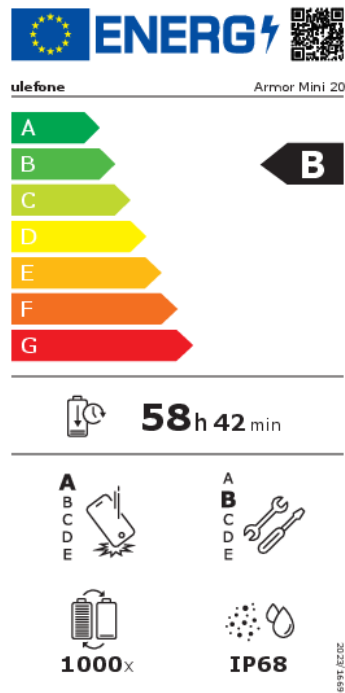
lang:en score:34 filesize: 763.69 K page_count: 43 document date: 2024-11-20



[Ulefone Armor Mini 20 Pro Series User Manual - Network Bands and Card Management](#)

Official user manual for the Ulefone Armor Mini 20 Pro Series, detailing card management options and supported network bands (GSM, WCDMA, CDMA, LTE, 5G NR).

lang:hr **score:32** filesize: 864.33 K page_count: 4 document date: 2025-05-30



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003889209 bd01a37c 61b6 4833 a2f4 8f079f4193e1Smartphone Robusto Ulefone Armor Mini 20 Preto 8gb 256gb Auchan003889209 8f079f4193e1auchan pt on demandware static Library Sites AuchanPTSharedLibrary default dwa81e8c39 documents 8f079f4193e1 ||| ulefone A B C D E F G Armor Mini 20 B 58 h 42 min 2023/1669 1000x IP68 ... lang:hr **score:25** filesize: 64.86 K page_count: 1 document date: 2025-06-19

Karta informacyjna produktu	
ROZPORZĄDZENIE DELEGOWANE KOMISJI (UE) 2023/1669 w odniesieniu do etykietowania energetycznego smartfonów i komputerów typu slate	
1. Znak towarowy	2. Identyfikator modelu
ulefone	Armor Mini 20 Pro
3. Ogólne parametry produktu:	
Parametr	Wartość
4. Typ urządzenia	Smartfon
5. System operacyjny	Android
6. Klasa efektywności energetycznej	B
7. Bateria, która może wyemitować ciepło	Nie
8. Trwałość baterii na cykl (EISA, min.)	60
9. Trwałość baterii w cyklu - całkowita dożycie (liczba cykli)	1 000
10. Pojemność zmniejszenia baterii (EISA, mAh)	6 200
11. Urządzenie dostarczone z obrotowym ekranem	Nie
12. Średnia wytrzymałość na spadki wysokości (m)	270
13. Średnia wytrzymałość na spadki wysokości (m) - zgodnie z wytycznymi IEC 60529	Nie dotyczy
14. Klasa wytrzymałości na spadki wysokości	A
15. Stopień ochrony przed wilgocią	IP68
16. Określona głębokość zanurzenia w wodzie w przelotach (m)	2,00
17. Odporność ekranu na zarysowanie w skali twardego ciała	4
18. Ładowność	Wytrzymałość: 33
19. Wymagania: wytrzymałość (m)	Typ: USB-C
20. Informacje dotyczące możliwości naprawy	
21. Minimalna gwarantowana dostępność do naprawy	5
22. Minimalna gwarantowana dostępność do naprawy (zabezpieczenia, aktualizacje, kopie zapasowe)	5
23. Klasa możliwości naprawy (oparta na poziomie wytrzymałości)	B
24. Wskaźnik możliwości naprawy	3,64
25. Poziomowa ocena głębokości demontażu (Sul)	2,05

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smartfon ulefone armor mini 20 karta informacyjna produktuArmor Mini Pro 3 Ogólne parametry produktu Parametr Wartość 4 Typ urządzenia Smartfon 5 System operacyjny Android 6 Klasa gproxymaxelektro pl storage file pimcore import 2025 7 28 9a3bb736c386f2b2a671998cd5029201 ||| Karta informacyjna produktu ROZPORZDZENIE DELEGOWANE KOMISJI UE 2023/1669 w odniesieniu do etykietowania energetycznego smartfonów i komputerów typu slate 1. Znak towarowy ulefone 3. Ogólne parametry produktu: Parametr 4. Typ urządzenia 5. System operacyjny 6. Klasa efektywności energetycznej ... lang:pl **score:22** filesize: 88.18 K page_count: 2 document date: 2025-06-27

