

Ulefone Armor 29 Ultra

Ulefone Armor 29 Ultra 5G Rugged Smartphone User Manual

Model: Armor 29 Ultra



1. INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your Ulefone Armor 29 Ultra 5G rugged smartphone. Please read this guide thoroughly before using your device to ensure optimal performance and longevity.



Image 1.1: Front and rear view of the Ulefone Armor 29 Ultra 5G smartphone.

2. SETUP

2.1 Box Contents

Verify that all items are present in the package:

- Ulefone Armor 29 Ultra 5G Smartphone
- AC Power Charger (100~240V)
- Type-C to Type-C Data Cable (100cm)

- Screen Protector (pre-applied or separate)
- SIM Tray Ejector
- Lanyard



Image 2.1: Contents included in the Ulefone Armor 29 Ultra retail box.

2.2 SIM Card Installation

1. Locate the SIM card tray on the side of the device.
2. Insert the SIM tray ejector tool into the small hole next to the tray and press firmly until the tray pops out.
3. Place your Nano-SIM card(s) and/or microSD card into the designated slots on the tray. Ensure correct orientation.
4. Carefully reinsert the tray into the phone until it is flush with the device body.

2.3 Initial Power On

Press and hold the Power button (located on the right side of the phone) until the Ulefone logo appears. Follow the on-screen instructions to complete the initial setup, including language selection, Wi-Fi connection, and Google account setup.

3. OPERATING INSTRUCTIONS

3.1 Performance and Storage

The Armor 29 Ultra is powered by the MediaTek Dimensity 9300+ processor, offering robust performance. It features up to 32GB RAM (16GB physical + 16GB virtual) and 1TB internal storage, expandable up to 2TB via microSD card.

Dimensity 9300+ 5G Ultra Flagship

All Big Core CPU, the Most Powerful CPU

5G

MediaTek
Dimensity 9300+



4nm
Process Technology



3.4GHz
Ultra-High Frequency



4+4
All Big Cores



Cortex-X4
Super Core Architecture

40%

Peak Performance

33%

Power Consumption

2,311,817



Substantial Gain in Antutu Scores

Up to 32GB
1TB Storage

No Struggle for
Space Clearance

16GB RAM LPDDR5
16GB Dynamic RAM

1TB ROM UFS4.0
2TB Expansion

Image 3.1: Overview of the Dimensity 9300+ processor and memory configuration.

3.2 Dual AMOLED Display

The device features a 6.67-inch flexible AMOLED main display with a 120Hz refresh rate and up to 2200 nits peak brightness. A 1.04-inch flexible AMOLED sub-display on the rear provides quick access to notifications, music controls, and selfie previews.

6.67" AMOLED Display & 8K Video Recording

Unbelievably Clear and Detailed



 **2200 nits**
Peak Brightness

 **120Hz**
Ultra High Refresh Rate

 **1080 x 2400**
Pixels

 **395 PPI**
Pixel Density

 **10-bit**
Colour depth

 **DCI-P3**
Wide Colour Gamut

 **5000000:1**
Contrast Ratio

Luxury Watch Sub-Display

 **1.04-inch**
Diagonal

 **AMOLED**
Backplane Technology

 **60Hz**
Refresh Rate

 **500nits**
Max Brightness

 **340 x 340**
Pixels



Image 3.2: Details of the 6.67-inch main AMOLED display and the 1.04-inch sub-display.

3.3 Camera System

The Armor 29 Ultra is equipped with a versatile camera system:

- **50MP Main Camera:** 1-inch Sony IMX989 sensor, capable of 8K video recording.
- **64MP Night Vision Camera:** OMNIVISION OV64B sensor with 4 infrared LEDs for enhanced low-light visibility.
- **50MP Ultra-wide Macro Lens:** Samsung JN1 sensor with a 117.3° field of view.

- **50MP Front Camera:** For high-resolution selfies and video calls.



Image 3.3: Overview of the triple rear camera setup and front camera.

3.4 Battery and Charging

The device features a 21200mAh battery. It supports 120W flash charging, allowing for a 20% charge in approximately 10 minutes. Additionally, it offers 10W reverse charging to power other devices.

21200mAh Crazy Battery

120W Fast Charging & 10W Reverse Charging





7.74V
High Voltage



Safe and Efficient
Long Charge Life



1140 Hours
Standby Time



114 Hours
Call Time



27 Hours
Video Playback

Fastest 120W Flash Charger
Power Surges Up at Once

Charge 20%
in 10 minutes
21200mAh Beast



10W Reverse Charging Support



Image 3.4: Details on the 21200mAh battery capacity and 120W fast charging capabilities.

3.5 LED Light and Warning Lights

The Armor 29 Ultra includes a powerful 1000-lumen LED camping light with 570 LEDs and a 5-watt output. It also features red and blue warning lights for emergency situations, which can operate in constant or flashing modes with selectable alarm sounds.

1000 Lumens Versatile LED Light

One-Key Lighting



1000
Max Lumens

570
LEDS

5W
Max Power

IPX8
Waterproof



Maintenance



Emergency Lighting



Camping



Cycling



Hiking

Image 3.5: Illustration of the 1000-lumen LED light and emergency warning lights.

3.6 Ruggedness and Durability

The phone is designed to meet MIL-STD 810G standards and boasts IP68 and IP69K ratings, providing protection against water, dust, dirt, sand, humidity, and salt mist. The display is protected by Corning Gorilla Glass 5.



Image 3.6: Visual representation of the phone's IP68/IP69K and MIL-STD-810H durability ratings.

3.7 Connectivity

The Armor 29 Ultra supports global 5G networks with dual SIM dual standby. It features Wi-Fi 7, Bluetooth 5.4, NFC, Infrared, USB 3.2 Gen 2, and comprehensive GPS (GPS + GLONASS + Beidou + Galileo).



Image 3.7: Information on 5G network support and Wi-Fi 7 capabilities.

3.8 uSmart Expansion Connector

The device includes a uSmart Expansion Connector for compatibility with various external accessories, enhancing its functionality for specialized tasks.



Image 3.8: The uSmart Expansion Connector and examples of compatible accessories.

3.9 Android 15 and AI Features

The Armor 29 Ultra runs on Android 15, offering the latest features and security updates. It integrates an AI engine for enhanced computations and supports third-party AI applications.

Newest Android 15

Smarter, Faster, Yours



Image 3.9: Visual representation of the Android 15 operating system interface.

4. MAINTENANCE

4.1 General Care

- Avoid exposing the phone to extreme temperatures or direct sunlight for prolonged periods.
- Do not attempt to disassemble the device, as this will void the warranty and may cause damage.
- Keep the charging port and other openings free from dust and debris.

4.2 Cleaning

To clean the device, use a soft, lint-free cloth. For stubborn dirt, a slightly damp cloth with mild soap can be used, ensuring all ports are securely closed. Avoid using harsh chemicals or abrasive materials.

4.3 Software Updates

Regularly check for and install software updates to ensure optimal performance, security, and access to new features. Navigate to **Settings > System > System update** to check for available updates.

5. TROUBLESHOOTING

5.1 Device Not Powering On

- Ensure the battery is charged. Connect the phone to the charger and wait a few minutes before attempting to power on again.
- Press and hold the Power button for at least 10-15 seconds to perform a forced restart.

5.2 Charging Issues

- Verify that the charging cable and adapter are securely connected and undamaged.
- Try using a different compatible charger and cable.
- Clean the charging port gently with a dry, soft brush to remove any debris.

5.3 Network Connectivity Problems

- Check if the SIM card is correctly inserted and activated.
- Restart the phone.
- Go to **Settings > Network & internet > Mobile network** and ensure mobile data is enabled and the correct network type is selected.
- Reset network settings: **Settings > System > Reset options > Reset Wi-Fi, mobile & Bluetooth**

5.4 Camera Malfunction

- Clear the cache and data of the Camera app: **Settings > Apps > See all apps > Camera > Storage & cache > Clear cache / Clear storage**.
- Restart the phone.
- Ensure there are no physical obstructions on the camera lenses.

6. SPECIFICATIONS

Feature	Specification
Product Dimensions	6.98 x 3.37 x 1.32 inches
Item Weight	2.66 pounds (688g)
Item Model Number	arm29u
Operating System	Android 15

Feature	Specification
CPU Speed	3.4 GHz (Dimensity 9300+)
RAM Memory Installed Size	32 GB (16GB physical + 16GB virtual)
Memory Storage Capacity	1024 GB (1TB), expandable up to 2TB
Standing Screen Display Size	6.67 Inches (Main AMOLED)
Sub-Display Size	1.04 Inches (AMOLED)
Refresh Rate	120 Hz (Main Display)
Resolution	8K (Scanner Resolution, likely referring to video recording capability)
Main Camera	50MP (Sony IMX989, f/1.9)
Night Vision Camera	64MP (OV64B, f/1.79) with 4 IR LEDs
Ultrawide/Macro Camera	50MP (Samsung JN1, f/2.2, 117.3° FOV)
Front Camera	50MP
Battery Capacity	21200 Milliamp Hours
Charging	120W Flash Charging, 10W Reverse Charging
Connectivity Technologies	Bluetooth 5.4, Infrared, NFC, USB 3.2 Gen 2, Wi-Fi 7, 5G
GPS	GPS, GLONASS, Beidou, Galileo
Special Features	Always On Display, Dual Screen, Fast Charging, Rugged Body, Water Resistant, 1000LM LED Light, Custom Key, uSmart Expansion Connector
Audio Jack	3.5 mm
Wireless Carrier	Unlocked

7. WARRANTY AND SUPPORT




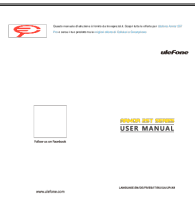


7.1 Warranty Information




Ulefone provides a 12-month manufacturer warranty service in the US for the Armor 29 Ultra. This warranty covers manufacturing defects under normal use. Please retain your proof of purchase for warranty claims.

7.2 Customer Support

For any questions, technical assistance, or warranty inquiries regarding your Ulefone Armor 29 Ultra, please contact Ulefone customer support. Refer to the contact information provided in your product packaging or visit the official Ulefone website for support details.

Related Documents - Armor 29 Ultra

	<p>Ulefone Armor 3 User Manual: Features, Setup, and Safety Guide</p> <p>Comprehensive user manual for the Ulefone Armor 3 rugged smartphone. Learn about installation, device features, basic operations, and essential safety precautions.</p>
	<p>Ulefone Armor 21 User Manual</p> <p>User manual for the Ulefone Armor 21 rugged smartphone, detailing features, setup, safety information, and usage instructions. Includes information on card installation, hardware components, charging, basic operations, and safety guidelines.</p>
	<p>Ulefone Armor X8i Rugged Smartphone - Specifications and Features</p> <p>Detailed specifications and features of the Ulefone Armor X8i rugged smartphone, including its MediaTek processor, 3GB RAM, 32GB storage, 5.7-inch HD+ screen, 5080mAh battery, and IP68/IP69K rating.</p>
	<p>Ulefone Armor 25T Series User Manual: Comprehensive Guide to Setup, Features, and Safety</p> <p>Detailed user manual for the Ulefone Armor 25T Series smartphone. Covers device setup, card installation, network bands, basic operations, crucial safety information, and disclaimers.</p>
	<p>Ulefone Power Armor 19 User Manual - Rugged Smartphone Guide</p> <p>Official user manual for the Ulefone Power Armor 19 rugged smartphone. Learn about installation, features, network bands, safety precautions, FCC/CE compliance, and more.</p>
	<p>Ulefone Armor Mini 20 Pro Series User Manual</p> <p>Comprehensive user manual for the Ulefone Armor Mini 20 Pro Series, covering setup, features, safety information, and troubleshooting.</p>

		Global United Technology Services Co., Ltd.	
		Report No.: GTS/20250000330134	
<h2>TEST REPORT</h2>			
Applicant	Shenzhen Guxun Electronic Co., LTD		
Product Name	Smart Phone		
Brand Name	Huawei		
Model Name	G09012		
Series Model	Armor 29 Pro, Armor 29 Ultra, Armor 29, Armor 29T Ultra, Armor 29T Pro, Armor 20 Lite, Armor 29s, Armor 29s Pro		
FCC ID	2AD6W6-5012		
Test Standard	FCC Part 15 Subpart E §15.407		
Date of Receipt	2025.02.11		
Date of Test	2025.02.11~2025.04.11		
Issue Date	2025.04.29		
Report Prepared by	 (Jacob Cai)		
Report Approved by	 (Jason Wu)		
Authorized Signatory	 (Robinson Luo)		
Authorized Signatures			
<p>Robinson Luo Laboratory Manager</p> <p>This report shall be in this report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without a prior written permission of the company. The report would be invalid without enough stamp of test institution and the signatures of sample and approval.</p>			

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Ghost Li Part 15E 5G WiFi Test Report Shenzhen Gotron Electronic CO LTD 5012 Smart Phone 2AOWK
2AOWK5012

Global United Technology Services Co., Ltd. Report No.: GTSL2025060033F04

Applicant TEST REPORT : Shenzhen Gotron Electronic CO.,LTD. Product Name :
Smart Phone Brand Name : ulefone Model Name : GQ5012 Series Model : Armor 29
Pro, **Armor 29 Ultra**, Armor 29, Armor 29T Ultra, Armor 29T Pro, Arm...

lang:en score:12 filesize: 604.11 K page_count: 31 document date: 2025-06-09

GTS		Global United Technology Services Co., Ltd.	
		Report No.: GTS-20250506-00392	
TEST REPORT			
Applicant :	Shenzhen Gedron Electronic CO., LTD.		
Product Name :	Smart Phone		
Brand Name :	Huawei		
Model Name :	GG5012		
Series Model :	Armor 29 Pro, Armor 29 Ultra, Armor 29, Armor 29T Ultra, Armor 29T Pro, Armor 29 Lite, Armor 29e, Armor 29e Pro		
FCC ID :	2ACW6M-562		
Test Standard :	47 CFR 15.247		
Date of Receipt :	2025.02.11		
Date of Test :	2025.02.11~2025.04.11		
Issue Date :	2025.04.29		
Report Prepared by :	 (Jacob Cai)		
Report Approved by :	 (Jason Wu)		
Authorized Signatory :	 (Robinson Luo)		
Authorised Signature			
Release Note This report is confidential. The test report could only be used for the service(s) listed. This test report cannot be reproduced, except in full without the prior written permission of our company. The report should be invalid without specific details of test condition and the signature of complete and accurate.			





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Ghost Li Part 15C BLE Test Report 1 35 Shenzhen Gotron Electronic CO LTD 5012 Smart Phone
2AOWK 2AOWK5012

Global United Technology Services Co., Ltd. Report No.: GTSL2025060033F02

TEST REPORT Applicant : Shenzhen Gotron Electronic CO.,LTD. Product Name :
Smart Phone Brand Name : ulefone Model Name : GQ5012 Series Model : Armor 29
Pro, **Armor 29 Ultra**, Armor 29, Armor 29T Ultra, Armor 29T Pro, Arm...

lang:en score:11 filesize: 2.56 M page count: 35 document date: 2025-06-12

		Global United Technology Services Co., Ltd.	
		Sheet No. : GTS\20200603\01F05	
<h1>RF TEST REPORT</h1>			
Applicant	: Shenzhen Gotron Electronic CO.,LTD.		
Product Name	: Smart Phone		
Brand Name	: cellphone		
Model Name	: GG5012		
Series Model	: Armor 29 Pro, Armor 29 Ultra, Armor 29, Armor 28T Ultra, Armor 28T Pro, Armor 29 Lite, Armor 29e, Armor 29e Pro		
FCC ID	: 2ACWV-5012		
Test Standard	: 47 CFR Part 2, Part24E, Part21H		
Date of Sample Arrival	: 2025.02.11		
Date of Test	: 2025.02.14 06:25		
Issue Date	: 2025.04.25		
Report Prepared by :			
	: (Jacob Cai)		
Report Approved by :			
	: (Jason Wu)		
Authorized Signatory :			
	: (Robinson Luo)		
Authorized Signature:			
<div>Robinson Luo Laboratory Manager</div> <p>This result shown in this report used only for the sample(s) tested, this test report cannot be reprinted, except in full, without prior written permission of the company. The report recipient shall read, understand, verify, agree of the veracity and the integrity of complete and accurate.</p> <div>Page 1 of 40</div>			

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


Ghost Li Test Report foe GSM Shenzhen Gotron Electronic CO LTD 5012 Smart Phone 2AOWK
2AOWK5012

Applicant Global United Technology Services Co., Ltd. Report No.:

GTSL2025060033F05 RF TEST REPORT : Shenzhen Gotron Electronic CO.,LTD.

Product Name : Smart Phone Brand Name : ulefone Model Name Series Model FCC
ID : GQ5012 Armor 29 Pro, **Armor 29 Ultra**, Armor 29, Armor 29T : Ultra, Armor
29T...

lang:en score:11 filesize: 2.22 M page count: 46 document date: 2025-06-09

		Global United Technology Services Co., Ltd.	
Report No. GTS/202500030308			
RF TEST REPORT			
Applicant	Shenzhen Gotion Electronic Co., LTD.		
Product Name	Smart Phone		
Brand Name	ulphone		
Model Name	GG5212		
Series Model	Armor 29 Pro, Armor 29 Ultra, Armor 29, Armor 29T Ultra, Armor 29T Pro, Armor 29 Lite, Armor 29s, Armor 29o		
FCC ID	2ACW9-5612		
Test Standard	47 CFR Part 2, Part24E, Part23H		
Date of Sample/Arrival	2025.02.11		
Date of Test	2025.02.11-2025.04.25		
Issue Date	2025.04.25		
Report Prepared by :	 _____ (Jacob Cai)		
Report Approved by :	 _____ (Jason Wu)		
Authorized Signatory :	 _____ (Robinson Luo)		
Authorized Signatures			
Robinson Luo Laboratory Manager			

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Ghost Li Test Report foe WCDMA Shenzhen Gotron Electronic CO LTD 5012 Smart Phone 2AOWK
2AOWK5012

Applicant Global United Technology Services Co., Ltd. Report No.:

GTSL2025060033F06 RF TEST REPORT : Shenzhen Gotron Electronic CO.,LTD.

Product Name : Smart Phone Brand Name : ulefone Model Name Series Model FCC

ID : GQ5012 Armor 29 Pro, **Armor 29 Ultra**, Armor 29, Armor 29T : Ultra, Armor 29T...

lang:en score:10 filesize: 3.03 M page_count: 51 document date: 2025-06-09

		Global United Technology Services Co., Ltd.	
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<h2>TEST REPORT</h2>			
Applicant	:	Shenzhen Gudun Electronic Co.,LTD.	
Product Name	:	Smart Phone	
Brand Name	:	Oeforte	
Model Name	:	GG5012	
Series Model	:	Armor 29 Pro, Armor 29 Ultra, Armor 29, Armor 29T Ultra, Armor 29T Pro, Armor 29 Lite, Armor 29i, Armor 29i Pro	
FCC ID	:	23AWX52612	
Test Standard	:	47 CFR 15.247	
Date of Receipt	:	2025.02.11	
Date of Test	:	2025.02.11~2025.04.11	
Issue Date	:	2025.04.29	
Report Prepared by	:	 (Jacob Cai)	
Report Approved by	:	 (Jason Wu)	
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Robinson Luo Laboratory Manager The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report should be invalid without specific stamp of test institute and the signature of compiler and approval.			

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Ghost Li Part 15C BR EDR Test Report 1 62 Shenzhen Gotron Electronic CO LTD 5012 Smart Phone
2AOWK 2AOWK5012

Global United Technology Services Co., Ltd. Report No.: GTSL2025060033F01

TEST REPORT Applicant : Shenzhen Gotron Electronic CO.,LTD. Product Name :

Smart Phone Brand Name : ulefone Model Name : GQ5012 Series Model : Armor 29

Pro, **Armor 29 Ultra**, Armor 29, Armor 29T Ultra, Armor 29T Pro, Ar...

lang:en score:9 filesize: 5.09 M page_count: 62 document date: 2025-06-09