

DOOGEE BLADE20ULTRA

# DOOGEE Blade 20 Ultra Rugged Phone User Manual

Model: BLADE20ULTRA

## 1. INTRODUCTION AND OVERVIEW

Thank you for choosing the DOOGEE Blade 20 Ultra Rugged Phone. This device is engineered for durability and high performance, designed to withstand challenging environments while providing a seamless smartphone experience. It combines robust construction with advanced features, making it ideal for outdoor enthusiasts, professionals, and anyone seeking a reliable and powerful mobile companion.

### Product Overview



Figure 1: Front and rear view of the DOOGEE Blade 20 Ultra, highlighting its 10300mAh battery, 32GB RAM, 512GB storage, and 1.54" rear display.

The DOOGEE Blade 20 Ultra is a rugged smartphone featuring a massive 10300mAh battery, up to 32GB RAM (8GB base + 24GB extended), and 512GB UFS storage, expandable up to 2TB. It boasts a 1.54" IPS rear display for quick access to information and controls, a 6.6" HD+ 90Hz notch-less punch-hole main display, and runs on Android 14. Equipped with a 50MP main camera and 8MP front camera, it is built to military-grade standards (IP68/IP69K/MIL-STD-810H) for water, dust, and shock resistance.

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Video 1: An overview of the DOOGEE Blade 20 Ultra Rugged Phone, showcasing its design and key features.

## 2. KEY FEATURES

## Massive 32GB RAM + 512GB ROM, Expandable to 2TB

The DOOGEE Blade 20 Ultra offers exceptional speed and storage capacity. With up to 32GB of RAM (8GB base + 24GB extended virtual RAM) and a generous 512GB of UFS storage, this device ensures lightning-fast multitasking, smooth application launches, and lag-free gaming. Storage can be easily expanded with a microSD card up to 2TB, providing ample space for all your files, photos, and videos.

# Unisoc T7250 Processor

**12nm**  
Chipset

**Octa-core**  
Processor



**Up to 32GB RAM**  
8GB Basic + 24GB Virtual

**512GB ROM**  
2TB Expandable  
(needs to be purchased separately)

Figure 2: Illustration of the Unisoc T7250 processor and memory configuration (32GB RAM, 512GB ROM).

## Unisoc T7250 Processor

Boosted Performance, Reduced Consumption



**12nm**  
Processing

**Octa-core**  
Processor

Figure 3: Visual representation of the phone's large storage and RAM for enhanced user experience.

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Video 2: Demonstrates the boosted performance and reduced consumption of the phone's processor and memory.

### 1.54" Smart Rear Display – Efficient & Customizable

The upgraded 1.54" IPS rear display (240×240 resolution) on the DOOGEE Blade 20 Ultra offers enhanced functionality. Users can instantly check the time, date, battery level, and notifications, control music playback, or use the compass without unlocking the main screen. This display is highly customizable, allowing personalization to match individual lifestyles and providing convenient access to key features.



# 1.54" Smart Rear Display - High Tech on the Back

## Over 16 Wallpapers

Dynamic Mecha-style  
Static Business-style  
Personalized Photo Setting  
Personalized Signature



## Quick Start Rear Display

Double-click  
Smart Key



Figure 4: The 1.54-inch IPS rear display on the DOOGEE Blade 20 Ultra.

## 1.54" Smart Rear Display - High Tech on the Back

The Blade20 Ultra is newly upgraded with a 1.54" square rear display (240\*240 Resolution), which is more multi-functional and interesting than the Blade10 Ultra.



## Over 16 Wallpapers

Dynamic Mecha-style  
Static Business-style  
Personalized Photo Setting  
Personalized Signature

## Quick Start Rear Display

Double-click  
Smart Key



Figure 5: Detailed view of the smart rear display, showcasing various wallpaper options and quick access features.

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Video 3: Highlights the innovative 1.54" rear display and its various functionalities.

## 10300mAh Massive Battery – Power That Lasts for Days

Equipped with a powerful 10300mAh dual-cell battery, the DOOGEE Blade 20 Ultra delivers exceptional endurance. It offers up to 1415 hours on standby or 31 hours of nonstop music playback, making it perfect for extended travel or outdoor work. With 18W fast charging support, the device quickly recharges, minimizing downtime and eliminating battery anxiety.

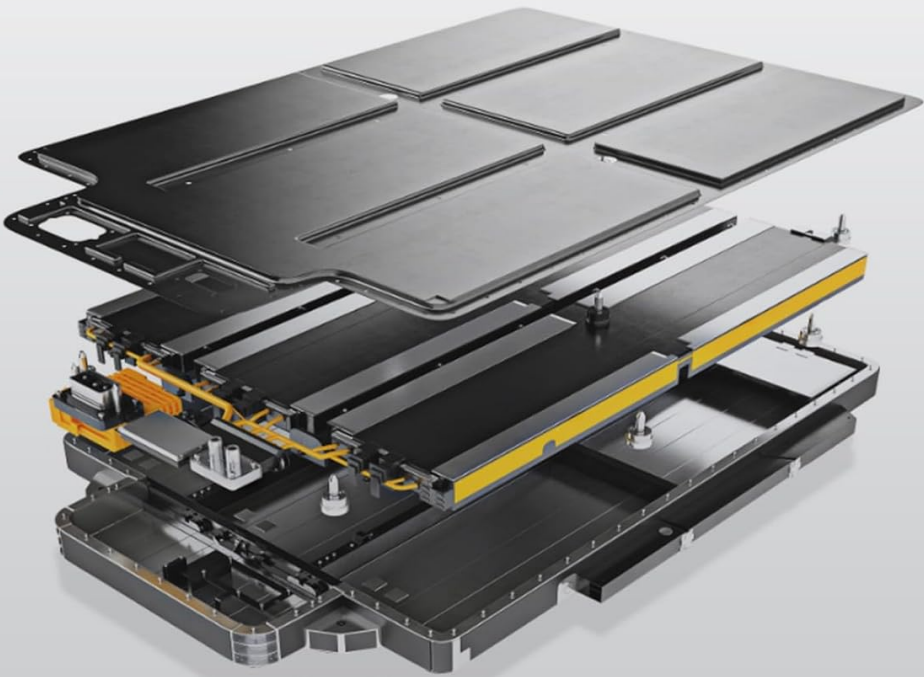
# Innovative 10300mAh Battery, Holding 20% More Power

**1415 Hours of**  
Flight Mode

**14.5 hours**  
Movies Watching

**31 Hours**  
Music Playing

**2-3 Days**  
Business Trip  
(Making Phone Call  
without Charging)



 **18W Fast Charging**

 **Reverse Charging Supported**

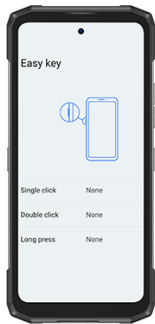
Figure 6: Exploded view illustrating the innovative 10300mAh battery design.


## The Latest Android 14 System


Easier & Smoother



## Side Custom Button



 **Single Click -**  
Enter into the APP

 **Double Click -**  
Screenshot

 **Long press -**  
Flashlight

Figure 7: Visualizing the extensive battery life for movies and music playback.

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Video 4: Showcases the phone's slim design despite its large 10300mAh battery.

## 6.6"HD+ IPS Notch-less Punch Display+90Hz

Experience vibrant visuals on the DOOGEE Blade 20 Ultra's 6.6" HD+ notch-less punch-hole display. The 90Hz refresh rate ensures ultra-smooth scrolling, fluid animations, and lag-free transitions, perfect for watching videos, gaming, or multitasking. Powered by Android 14, the device offers enhanced privacy controls, security upgrades, and deep customization options for a smarter, more personalized smartphone experience.

# 6.6" 90Hz Notch-less Punch Display

**84%**  
Processor

**16.7**  
Million Screen Color

**20:9**  
Aspect Ratio

**90Hz**  
Processor

**1500:1**  
Million Screen Color

**380cd/m2**  
Brightness



Figure 8: The 6.6-inch 90Hz display, ideal for immersive viewing and gaming.

## Support Reverse Charging - An Emergency Power Bank for You



Figure 9: The 90Hz display provides a seamless experience for gaming and media consumption.

## Make Every Shot a Masterpiece

The DOOGEE Blade 20 Ultra rugged smartphone features a 50MP main camera and an 8MP front camera, delivering stunning photo quality for every moment. Whether capturing breathtaking landscapes or snapping the perfect selfie, this smartphone ensures every shot is sharp, vibrant, and effortless with just a single click.



# Ultra-clear Camera Captures Valuable Moments



Figure 10: Overview of the phone's camera system, including the 50MP main camera and 8MP front camera.

## Larger Storage & Better Experience



Figure 11: Highlighting the clarity and detail captured by the 50MP main camera.

## Triple Slot Cards + IP68 / IP69K Rugged Phone

The DOOGEE Blade 20 Ultra features a convenient triple slot design, supporting 2 SIM cards and 1 TF card for



seamless connectivity and ample storage. With IP68, IP69K, and MIL-STD-810H certifications, this indestructible phone is built to withstand the toughest conditions. It's waterproof up to 1.5 meters, dustproof, and shockproof, making it an ideal companion for outdoor workers and adventurers.

# MIL-STD-810H Military-grade



Figure 12: Visual representation of the phone's military-grade durability against water, dust, and drops.

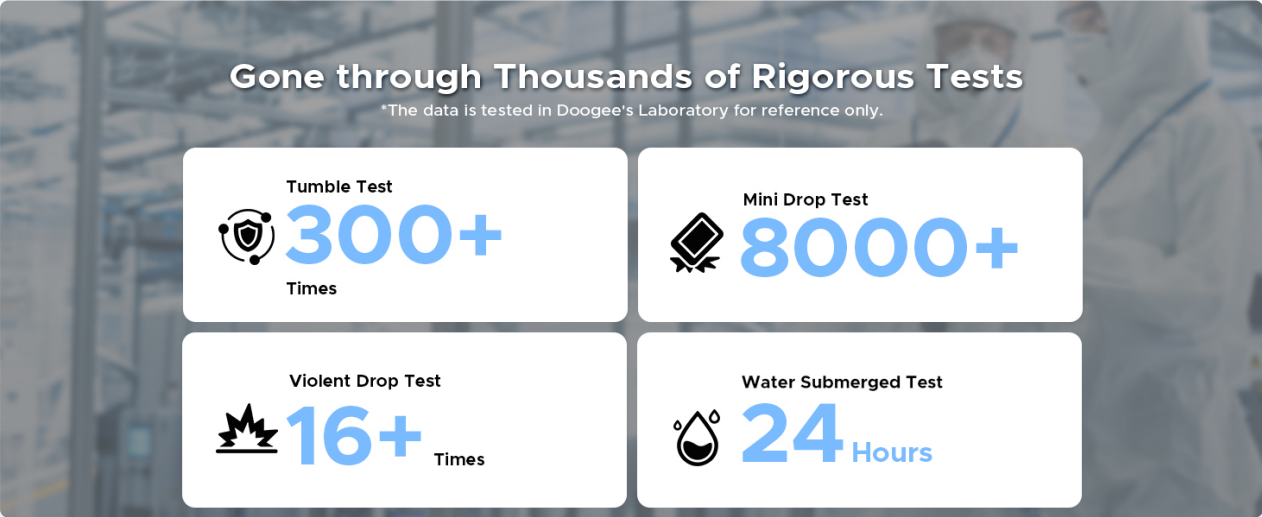


Figure 13: Detailed explanation of the phone's IP ratings and military-grade durability.

## Dual SIM 4G Unlocked Rugged Smartphone

This unlocked rugged smartphone supports dual 4G SIM cards for flexible connectivity. Please note that Verizon and AT&T are not supported. Users should confirm compatibility with their local carrier's frequency bands before purchase. Supported bands include GSM: B2/B3/B5/B8, WCDMA: B1/B2/B4/B5/B8, FDD: B1/2/3/4/5/7/8/18/19/20/25/26/28AB/66, and TDD-LTE: B34/B38/B39/B40/B41.

## 3. SETUP GUIDE

### 3.1 Unboxing and Initial Inspection

Upon receiving your DOOGEE Blade 20 Ultra, carefully open the packaging and inspect all contents. The box should include the smartphone, a USB-C charging cable, a power adapter, a SIM ejector tool, a user manual, and screen protector accessories.

### 3.2 SIM Card and MicroSD Card Installation

The phone features a triple slot design. To install SIM cards and/or a MicroSD card:

1. Locate the SIM card 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 and/or MicroSD card into the designated slots on the tray. Ensure they are correctly oriented as indicated on the tray.
4. Carefully push the tray back into the phone until it clicks into place. Ensure the tray is fully sealed to maintain water and dust resistance.

## Accurate Navigation System



Figure 14: Illustration of the 3-card slot supporting two SIM cards and one TF card.

### 3.3 Initial Power On and Charging

Press and hold the power button (located on the side) until the DOOGEE logo appears. Follow the on-screen prompts to complete the initial setup, including language selection, Wi-Fi connection, and Google account setup. It is recommended to fully charge the device before first use. Connect the USB-C cable to the phone's charging port and



the other end to the power adapter, then plug it into a wall outlet. The phone supports 18W fast charging.

## 10300mAh Double Battery Capacity

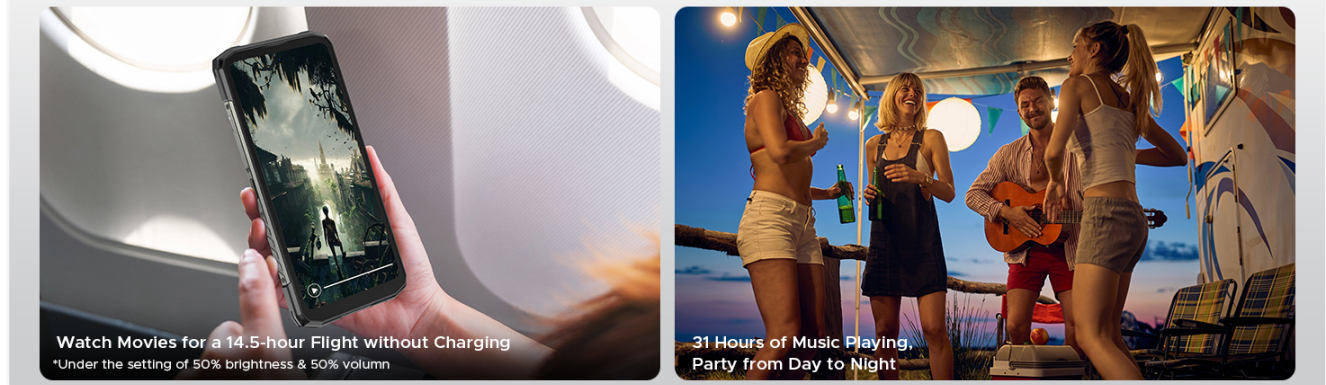


Figure 15: Demonstrates the long-lasting battery life for extended use.

## 4. OPERATING INSTRUCTIONS

### 4.1 Using the 1.54" Rear Display

The rear display provides quick access to various functions without needing to activate the main screen. Double-click the smart key to activate it. You can check time, date, battery level, notifications, control music, and use the compass. Swipe left or right to navigate through different widgets.



Figure 16: The rear display functioning as a power-saving compass for outdoor navigation.

## Power-saving Outdoor Compass Guidance

The compass guidance offers valuable assistance for outdoor explorers to plan and navigate their activities, helping them avoid losing their way in forests.

**Working 24-hours Only Uses 8% Power**



Figure 17: Using the rear display for taking clearer selfies.

## Selfie Magic in Your Hands

Use the 1.54" rear display to take a clearer selfie in 3 seconds.



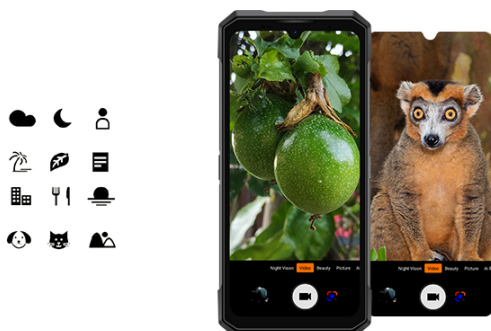
Figure 18: Seamless music control via the rear display during activities.

## 4.2 Camera Functions

The 50MP main camera and 8MP front camera offer various modes for capturing high-quality photos and videos. Access the camera app from the home screen. Available modes include Photo, Video, Portrait, Night Mode, Beauty Mode, Time-lapse, HDR, and more. The AI recognition feature automatically identifies 12 independent scenarios to optimize settings.

### AI Recognition

The rear AI dual cameras can automatically identify 12 independent scenarios.



### GOOGLE Intelligent Camera



View search

Figure 19: Overview of different camera modes available for diverse photography needs.



Figure 20: The phone's capability to capture photos underwater.

### 4.3 Security and Privacy Features

The DOOGEE Blade 20 Ultra offers multiple security options including Face ID and a side-mounted fingerprint sensor for quick and secure unlocking. It also includes features like Anti-peeping, Phone Manager, APP Lock, APP Cloning, Anti-theft Alarm, and Fingerprints Extension Tools to secure your data and privacy.



Figure 21: Various privacy and security features of the phone.

### 4.4 Other Features

- **NFC:** For convenient mobile payments and quick data transfer.



## Various Camera Modes, Capture a Perfect Picture

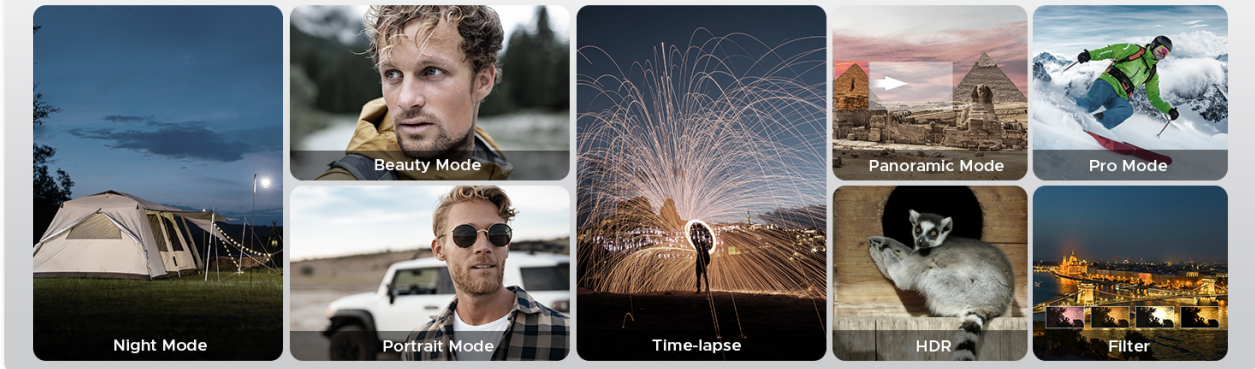


Figure 22: Using NFC for convenient mobile payments.

- **Accurate Navigation System:** Supports GPS, Glonass, Galileo, and Beidou for precise positioning.

## Convenient Life with NFC



Figure 23: The phone's accurate navigation system in use.

- **Reverse Charging:** Use your phone as a power bank to charge other devices.

## 2-3 Days Business Trip - Making Phone Calls without Charging



Charge Half Day Power, During a Coffee Break  
\*Under the setting of 50% brightness & 50% volume



18W Fast Charging  
- Spend Less Time on Charging

Figure 24: The phone's reverse charging capability, acting as an emergency power bank.

- **Custom Button:** A programmable side button for quick access to apps or functions like flashlight or screenshot.

## IP68/IP69K/MIL-STD-810H, Military Grading

Engineered to survive extreme conditions, this device conquers IP68/IP69K waterproofing and MIL-STD-810H military-grade durability testing.

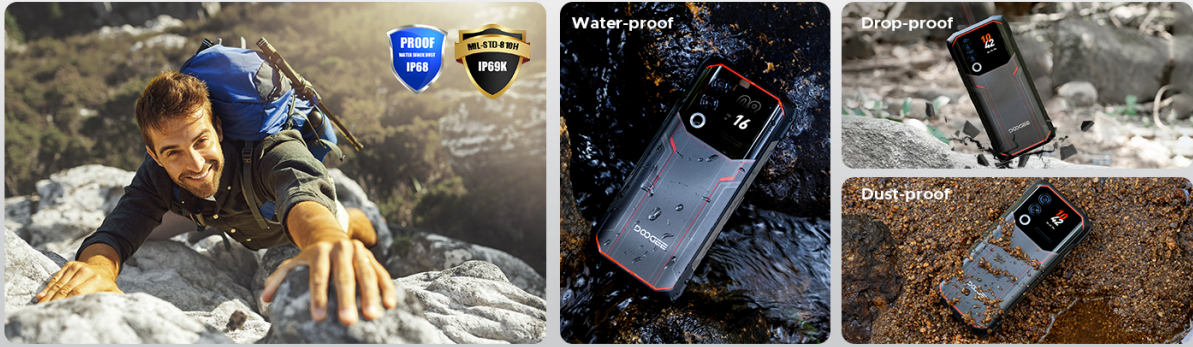


Figure 25: The custom side button and the Android 14 operating system.

## 5. MAINTENANCE

### 5.1 Cleaning Your Device

To clean your DOOGEE Blade 20 Ultra, use a soft, lint-free cloth. For stubborn smudges, slightly dampen the cloth with water. Avoid using harsh chemicals, abrasive cleaners, or compressed air, as these can damage the device's finish or internal components. Ensure all ports are dry before charging or connecting accessories.

### 5.2 Water and Dust Resistance Care

While the phone is IP68/IP69K rated for water and dust resistance, it is not impervious to damage. Always ensure the SIM tray and all port covers are securely closed before exposing the phone to water or dust. Avoid exposing the phone to high-pressure water, extreme temperatures, or corrosive liquids. If the phone gets wet, dry it thoroughly before charging.

## Effortless Music Switching While Running

Click the rear display, and quickly shift to the next song without unlocking the phone.



Figure 26: Comparison showing the slim profile of the DOOGEE Blade 20 Ultra.

## Thinner Than Other Rugged Phones with Same Battery

**Doogee**  
15.8mm Ultra-thin



**Others**  
3mm Thicker Than Doogee's Phone



Figure 27: Highlighting the aviation-grade aluminum titanium alloy frame for enhanced durability.

### 5.3 Battery Care

To maximize battery lifespan, avoid fully discharging the battery frequently. Charge the phone using the provided charger and cable. Avoid exposing the phone to extreme temperatures, as this can degrade battery performance and lifespan.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Phone does not power on	Low battery; software crash	Charge the phone for at least 30 minutes. Press and hold the power button for 10-15 seconds to force restart.
Cannot connect to network	Incorrect SIM card installation; unsupported carrier; network issue	Reinsert SIM card. Check carrier compatibility (Verizon and AT&T are not supported). Contact your carrier for network issues.
Apps crashing or freezing	Insufficient RAM; app conflict; outdated app	Close background apps. Clear app cache. Update apps from Play Store. Restart phone.
Water/dust ingress (despite ratings)	Port covers not sealed; extreme conditions	Ensure all port covers and SIM tray are securely closed. Avoid high-pressure water or prolonged submersion beyond specified limits. If damage occurs, contact support.

## 7. SPECIFICATIONS

Feature	Specification
Model Name	BLADE20ULTRA
Operating System	Android 14

Feature	Specification
RAM Memory Installed Size	32 GB (8GB base + 24GB extended)
Memory Storage Capacity	512 GB (Expandable up to 2TB via TF card)
Battery Capacity	10300mAh
Main Display Size	6.6 Inches HD+
Refresh Rate	90 Hz
Rear Display Size	1.54 Inches IPS (240x240 resolution)
Main Camera	50MP
Front Camera	8MP
Ruggedness Rating	IP68, IP69K, MIL-STD-810H
Connectivity Technologies	Bluetooth, Wi-Fi, NFC
Cellular Technology	4G (Dual SIM)
Item Weight	1.26 pounds
Package Dimensions	7.6 x 4.09 x 2.24 inches

## 8. WARRANTY AND SUPPORT

### 8.1 Warranty Information

The DOOGEE Blade 20 Ultra comes with a 2-Year Limited Warranty. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty card included in your product packaging or visit the official DOOGEE website.





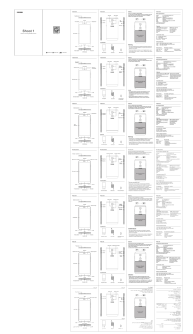
### 8.2 Customer Support

For technical assistance, troubleshooting, or general inquiries, please contact DOOGEE customer support. You can also visit the official DOOGEE Store on Amazon for more information and resources:

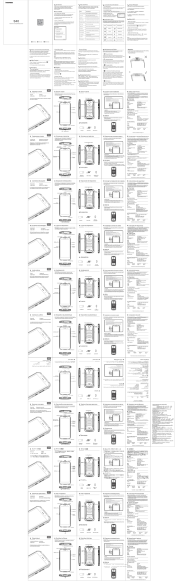
[Visit the DOOGEE Store](#)

For issues related to your purchase, you may also contact the seller, yingyuankeji08, through Amazon's messaging system.



	<p><a href="#">DOOGEE S61 / S61 PRO Rugged Industrial Smartphone - Technical Specifications</a></p> <p>Explore the detailed technical specifications of the DOOGEE S61 and S61 PRO rugged industrial smartphones. Learn about their Helio G35 processor, 6.0" IPS HD+ display, advanced camera systems (including SONY IMX350), 5180mAh battery, and robust IP68/IP69K/MIL-STD-810H durability.</p>
	<p><a href="#">DOOGEE S61 Series User Manual</a></p> <p>User manual for the DOOGEE S61 Series smartphone, providing essential information on setup, safety, and features.</p>
	<p><a href="#">DOOGEE eSIM Functions Quick Guide</a></p> <p>Learn how to download, switch, delete, and top up eSIMs on your DOOGEE smartphone with this comprehensive quick guide. Covers step-by-step instructions and important cautions.</p>
	<p><a href="#">DOOGEE Blade GT User Manual: Safety, SAR, Specifications, and Disposal</a></p> <p>Official user manual for the DOOGEE Blade GT smartphone. Find detailed safety instructions, RF exposure (SAR) information, frequency band specifications, and guidelines for responsible product disposal.</p>
	<p><a href="#">DOOGEE Shoot 1 Smartphone Overview and Specifications</a></p> <p>A comprehensive overview of the DOOGEE Shoot 1 smartphone, detailing its key specifications, camera features, connectivity options, dimensions, and package contents. Includes essential battery safety warnings.</p>





### [DOOGEE S40 Smartphone User Manual - Official Guide](#)

Explore the DOOGEE S40 smartphone with this comprehensive user manual. Learn about setup, features like call management, screen locking, battery details, and essential safety guidelines for your DOOGEE S40.