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> DOOGEE Fire 6 Rugged Phone User Manual

## DOOGEE Fire 6

# DOOGEE Fire 6 Rugged Phone User Manual

Model: Fire 6 | Brand: DOOGEE

## 1. INTRODUCTION

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The DOOGEE Fire 6 is a rugged smartphone designed for durability and advanced functionality, featuring a built-in thermal imaging camera, a large-capacity battery, and robust performance. This manual provides essential information for setting up, operating, and maintaining your device.



Figure 1.1: Front and back view of the DOOGEE Fire 6, highlighting its rugged design and thermal imaging capability.

## 2. SETUP AND INITIAL USE

### 2.1 Package Contents

Verify that all items are present in the package:

- 1 x Fire 6 Rugged Phone
- 1 x Type-C USB Cable
- 1 x Charger
- 1 x Thickened Screen Protector
- 1 x Packing Box
- 1 x Manual

## Packaging Included:

- 1 x Fire 6 Rugged Phone
- 1 x Type-C USB Cable
- 1 x Charger
- 1 x Thickened Screen Protector
- 1 x Packing Box
- 1 x Manual



Figure 2.1: All items included in the DOOGEE Fire 6 product packaging.

## 2.2 SIM and TF Card Installation

The DOOGEE Fire 6 supports a triple slot design for two SIM cards and one TF (microSD) card. Locate the SIM tray on the side of the device. Use the provided SIM ejector tool to open the tray. Insert your SIM cards and TF card into the designated slots, ensuring correct orientation. Close the tray securely.



Figure 2.2: The triple card slot for two SIM cards and one TF card.

## 2.3 Powering On and Initial Setup

Press and hold the power button located on the side of the phone until the DOOGEE 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 INSTRUCTIONS

### 3.1 Display and Navigation

The Fire 6 features a 6.56-inch HD+ IPS Notch-less Punch Display with a 90Hz refresh rate for smooth visuals and responsive touch. Navigate the interface using standard Android gestures and touch controls.

# 6.56" HD+ IPS Notch-less Punch Display



**90 Hz**  
Refresh Rate

**84%**  
Screen-to-Body Ratio

**720\*1612 HD+**  
Screen Resolution

**1500:1**  
Contrast

Figure 3.1: The 6.56-inch HD+ IPS display, offering a clear and vibrant viewing experience.

## 3.2 Camera Features

The device is equipped with a 50MP main camera, an 8MP front camera, and an 8MP thermal imaging fusion camera.

# Powerful Imaging Capability



Figure 3.2: Overview of the powerful imaging capabilities, including the 50MP main camera and 8MP thermal camera.

## 3.2.1 Thermal Imaging Camera

The built-in 8MP thermal camera allows for thermal imaging with a detection range from  $-15^{\circ}\text{C}$  to  $550^{\circ}\text{C}$ . It seamlessly combines thermal data with traditional visual capture. This feature is useful for identifying hidden heat sources, inspecting electrical systems, or observing wildlife in low light conditions.

# Revolutionizing Thermal Imaging

## Dual-Light Fusion Algorithm



8MP Fusion Camera



160 × 120 Resolution

12µm Pixel spacing

<10ms Thermal time constant

**Thermometric accuracy:**  
2%

**Thermometric range:**  
-15°C-150°C (high quality),  
50°C-550°C (wide range)

Figure 3.3: Revolutionizing thermal imaging with dual-light fusion algorithm and wide thermometric range.

Your browser does not support the video tag.

Video 3.1: Demonstration of the DOOGEE Fire 6's thermal imaging capabilities, showing how it can "see beyond normal" by detecting heat signatures.

# Outdoor Adventures



Figure 3.4: Thermal imaging in outdoor adventures, showing temperature readings.

# Security Monitoring

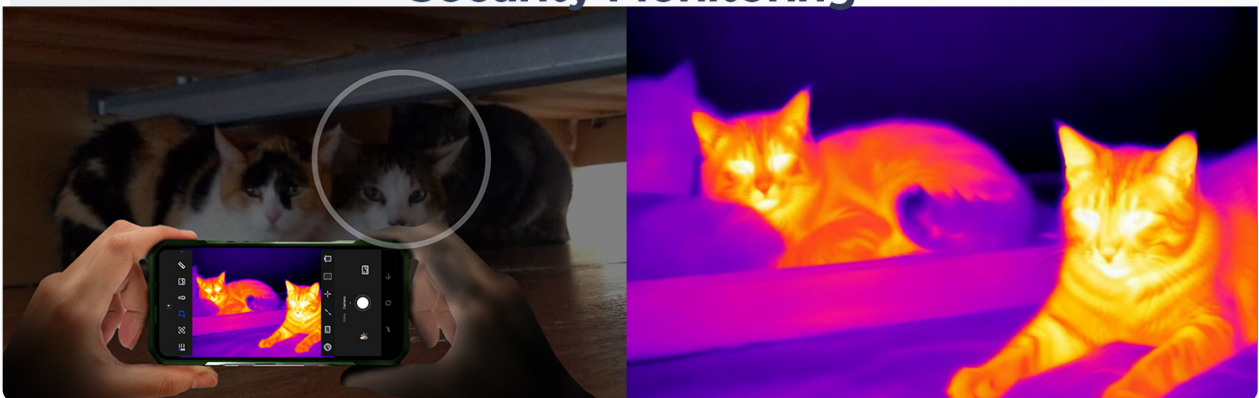


Figure 3.5: Thermal imaging for security monitoring, detecting heat signatures of animals.

## Power Safety Inspection



Figure 3.6: Thermal imaging for power safety inspection, visualizing heat in electrical systems.

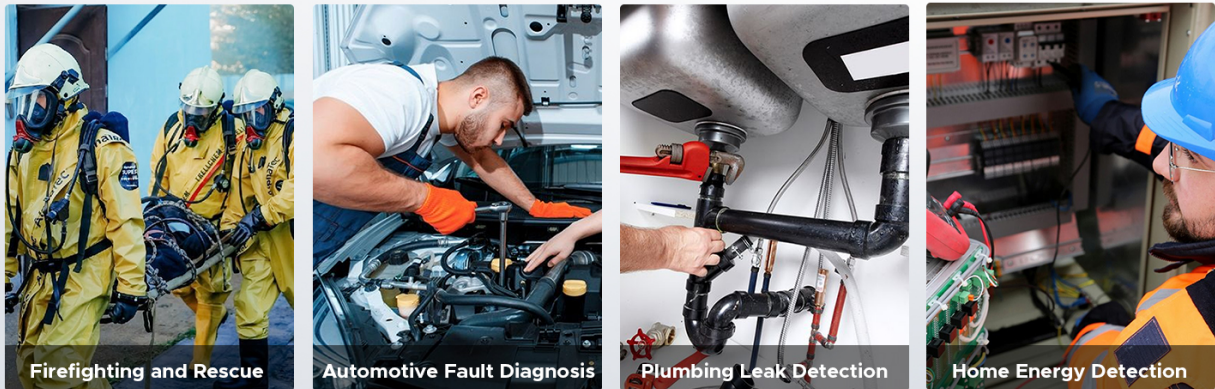


Figure 3.7: Diverse applications of the thermal camera, including firefighting, automotive fault diagnosis, plumbing leak detection, and home energy detection.

### 3.2.2 Standard Photography

The 50MP main camera and 8MP front camera capture high-quality photos and videos. The phone supports various photography modes for different scenarios.

## Multiple Photography Features



Figure 3.8: Multiple photography features available on the DOOGEE Fire 6, such as Beauty Mode, Panorama, Pro Mode, and Bokeh.

### 3.3 Battery Management

The DOOGEE Fire 6 is powered by a 10400mAh ultra-large battery, providing extended usage time. It supports fast charging to minimize downtime. To optimize battery life, manage background app usage and screen brightness.

## 10400mAh Large Battery

With its long-lasting battery life and fast charging capabilities, you can enjoy several days of uninterrupted use on a single charge, eliminating the worry of frequent power outages.

# 10400mAh

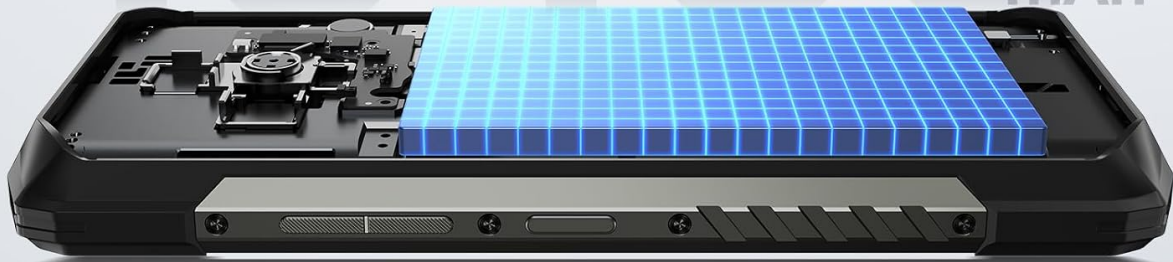


Figure 3.9: The massive 10400mAh battery, designed for extended use.

### 3.4 Performance and Storage

Equipped with a Unisoc T606 Octa Core processor, 16GB RAM (6GB fixed + 10GB expandable), and 256GB internal storage, the Fire 6 ensures smooth multitasking and ample space. Storage can be expanded up to 2TB via a TF card.

# Powerful Octa-core Processor

Fire 6 equipped with the Spreadtrum T606 octa-core processor, can effortlessly manage high-load scenarios.

**6GB**  
Basic RAM

**10GB**  
Extended RAM

**256GB**  
ROM

**2TB**  
Expendable Storage

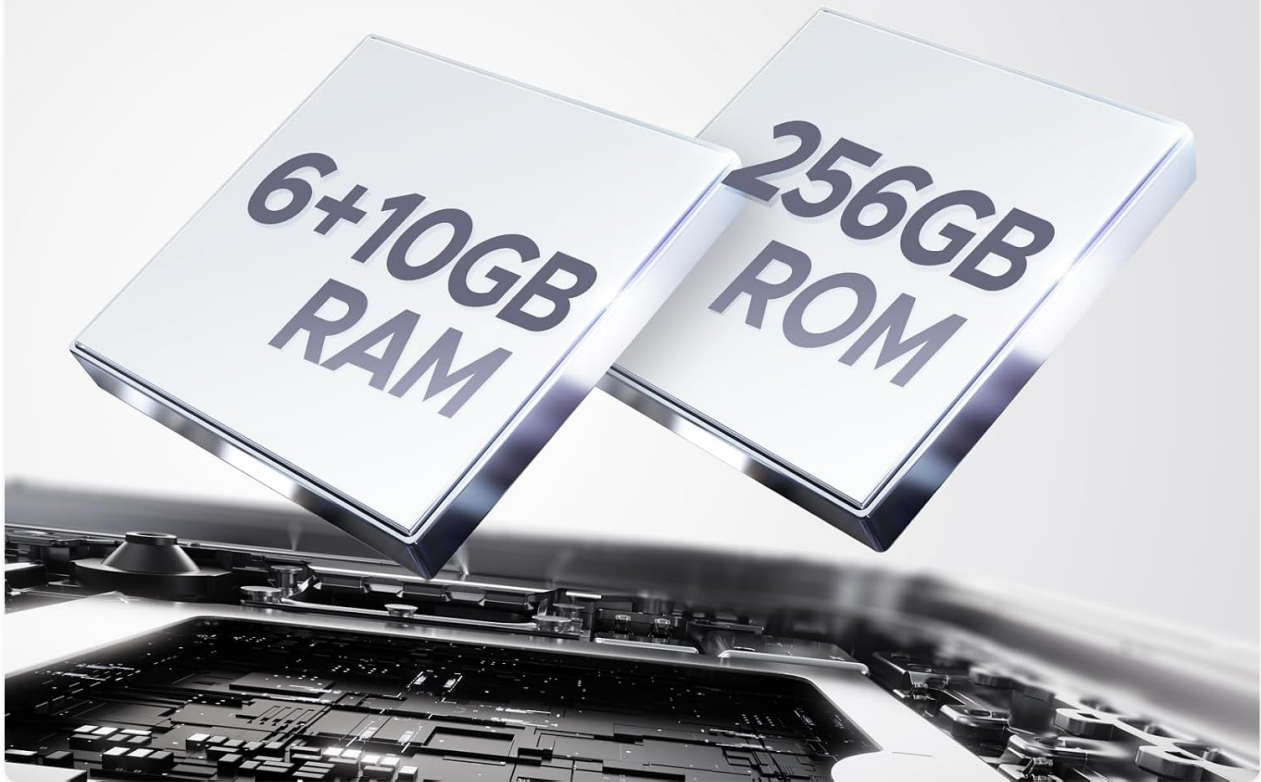


Figure 3.10: Details on the powerful Octa-core processor and memory configuration.



## Powerful Octa Core Processor

The Fire 6 can effortlessly manage high-load scenarios, providing a swift and seamless user experience.



**1.6GHz**  
Ultimate Frequency



**12nm**  
Advanced Process Technology

Figure 3.11: The powerful Octa Core Processor, ensuring smooth performance.

### 3.5 Rugged Features

The Fire 6 is built to withstand harsh environments, certified with IP68, IP69K, and MIL-STD-810H standards.

This means it is waterproof (up to 1.5 meters), dustproof, and shockproof.

## IP68 • IP69K • MIL-STD-810H

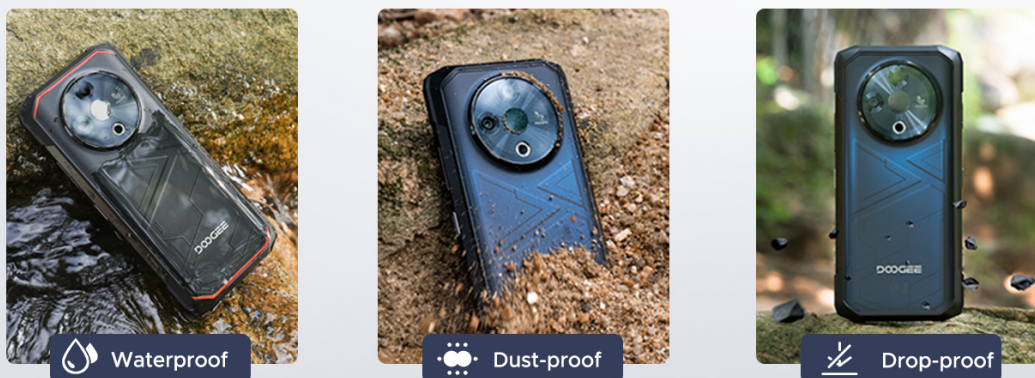


Figure 3.12: The phone's IP68, IP69K, and MIL-STD-810H certifications for water, dust, and drop resistance.

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Video 3.2: A short video showcasing the ruggedness of the DOOGEE Fire 6, including drop and water resistance tests.

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Video 3.3: Another video demonstrating the durability of the DOOGEE Fire 6, highlighting its ability to withstand drops and immersion.

## Rugged Construction



1. Sturdy cover plate
2. Aircraft-grade high-strength titanium alloy
3. Bayer TPU anti-drop/anti-abrasion
4. Aerospace grade alloy material
5. PC and PMMA composite material

Figure 3.13: Detailed breakdown of the rugged construction, showing layers of protective materials.

### 3.6 Connectivity and Navigation

The device supports 4G cellular technology and Wi-Fi for internet connectivity. For navigation, it integrates GPS, Glonass, Galileo, and Beidou systems, ensuring accurate positioning.

### 3.7 Android 14 System

The Fire 6 runs on Android 14, offering enhanced privacy, security features, and extensive customization options. Key features include Smart Motion Sensing, Screen Awareness, Glove Mode, Dual System Mode, Enhanced Protection, Real-time subtitles, SmartKey, Video Display Enhancement, and Split Screen.

# The Latest Android 14 System

Revolutionize Your Device



Figure 3.14: The latest Android 14 system interface on the DOOGEE Fire 6.

## Latest Android 14 System

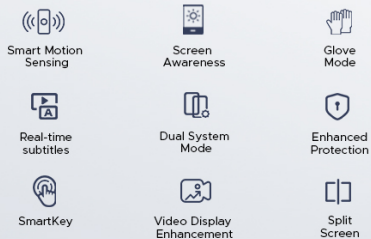


Figure 3.15: A comprehensive look at the features offered by the Android 14 system on the device.

### 3.8 Security Features

The device supports both Face Unlock and a side-mounted Fingerprint sensor for secure and convenient

access.

### 3.9 Audio

The Fire 6 is equipped with 1216-grade linear waterproof speakers, designed to enhance volume and depth while maintaining audio clarity.



## Immersive Audio Experience

The Fire 6 is equipped with 1216-grade linear waterproof speakers that enhance the volume and depth of sound, while also improving the purity and richness of the audio quality through precise tuning.

Figure 3.16: The immersive audio experience provided by the 1216-grade linear waterproof speakers.

## 4. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Avoid harsh chemicals or abrasive materials.
- **Water Exposure:** While waterproof, ensure all ports are securely closed before exposing the phone to water. After water exposure, dry the device thoroughly before charging.
- **Temperature:** Avoid exposing the phone to extreme temperatures (hot or cold) as this can affect battery life and internal components.
- **Storage:** Store the device in a cool, dry place when not in use for extended periods.

### 4.1 Polymer Cooling Technology

The Fire 6 incorporates polymer cooling technology to efficiently dissipate heat generated by the processor and other components, helping to maintain optimal performance and device longevity.



## Polymer Cooling Technology

The Fire 6 uses an advanced polymer cooling material to effectively dissipate heat produced by the processor and other key components, significantly lowering the overall temperature of the device.

Figure 4.1: Illustration of the Polymer Cooling Technology, which helps to lower the device's temperature during operation.

## 5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery; software crash.	Charge the device for at least 30 minutes. Press and hold the power button for 10-15 seconds to force restart.
Cannot connect to Wi-Fi.	Incorrect password; router issue; Wi-Fi disabled.	Verify Wi-Fi password. Restart router. Toggle Wi-Fi off/on in settings.
Thermal camera not working.	App error; sensor obstruction.	Restart the thermal camera app. Ensure the thermal sensor area is clean and unobstructed.
Slow performance.	Too many apps running; low storage.	Close unnecessary background apps. Clear cache. Free up storage space. Consider adding a TF card.
Phone not recognized by computer.	Incorrect USB mode; driver issue.	Ensure USB mode is set to "File Transfer". Try a different USB port or cable. Install necessary drivers on your computer.

## 6. SPECIFICATIONS

Feature	Detail
Model	Fire 6
Operating System	Android 14
Processor	Unisoc T606 Octa Core
RAM	16GB (6GB fixed + 10GB expandable)
Internal Storage	256GB
Expandable Storage	Up to 2TB (TF card)
Display	6.56-inch HD+ IPS, 90Hz Refresh Rate
Main Camera	50MP
Front Camera	8MP
Thermal Camera	8MP, -15°C to 550°C detection range
Battery Capacity	10400mAh
Durability Ratings	IP68, IP69K, MIL-STD-810H
Connectivity	4G, Wi-Fi
Navigation	GPS, Glonass, Galileo, Beidou
Security	Face Unlock, Side Fingerprint
Dimensions	7.56 x 4.09 x 2.24 inches

Feature	Detail
Item Weight	1.28 pounds

## 7. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the official DOOGEE website or contact their customer service. Keep your purchase receipt as proof of purchase for warranty claims.

DOOGEE Official Store: [Visit the DOOGEE Store on Amazon](#)