

[Manuals.plus](#) /

› [OSCAL](#) /

› OSCAL Marine 1 Rugged Smartphone User Manual

OSCAL Marine 1 Black (12+128GB) Rugged Smartphone 2025

OSCAL Marine 1 Rugged Smartphone User Manual

Model: Marine 1 Black (12+128GB) Rugged Smartphone 2025

Brand: OSCAL

INTRODUCTION

Welcome to the user manual for your new OSCAL Marine 1 Rugged Smartphone. This manual provides essential information on setting up, operating, maintaining, and troubleshooting your device. The OSCAL Marine 1 is designed for durability and performance, featuring robust protection, advanced AI capabilities, and a powerful operating system to support your daily activities and outdoor adventures.



Figure 1: Front and back view of the OSCAL Marine 1 Rugged Smartphone.

What's in the Box

Upon opening the package, please verify that all the following items are included:

- OSCAL Marine 1 Black Rugged Smartphone
- Phone Charger
- Type C Charging Cable
- Card Pin
- User Manual (this document)

PRODUCT OVERVIEW

Physical Features

The OSCAL Marine 1 is designed to be both durable and portable. It features a slim profile and a robust build.

- **Dimensions:** 17.8 x 8.15 x 1.35 cm
- **Weight:** 304 grams
- **Display:** 6.56-inch IPS HD+ display with 90Hz refresh rate and 450 nits brightness. Features a Panda screen for enhanced durability.
- **Cameras:** 16MP AI main camera (ISOCELL JN1 sensor) and 8MP front camera.
- **Ports:** USB Type-C charging port.
- **Card Slots:** Triple card slots (Dual Nano SIM + 1 MicroSD).
- **Buttons:** Power button, volume buttons, and a customizable shortcut button.

Swift and Slim — Carry the Future in Your Pocket

Marine 1
304g
13.5mm

VS

Others
540g
22mm

45% Lighter ↓ 40% Thinner ↓

Figure 2: The OSCAL Marine 1 is significantly lighter and thinner than typical rugged phones.

Rugged Design and Protection

The Marine 1 is built to withstand harsh environments, meeting military-grade standards.

- **MIL-STD 810H Certified:** Tested for durability against various environmental stresses.
- **IP68 & IP69K Rated:** Provides water and dust resistance. Can withstand immersion in water up to 1.5 meters deep for 30 minutes.
- **Drop-Proof:** Designed to withstand drops from a height of up to 1.2 meters.
- **Temperature Resistance:** Operates reliably in extreme temperatures ranging from -20°C to 60°C.



Figure 3: The Marine 1's robust protection features, including water, dust, and drop resistance.

SETUP

1. Inserting SIM and MicroSD Cards

1. Locate the SIM card tray on the side of the phone.
2. Insert the provided card pin into the small hole next to the tray to eject it.

3. Carefully pull out the tray.
4. Place your Nano SIM cards (up to two) and/or a MicroSD card into the designated slots on the tray. Ensure the gold contacts face downwards.
5. Gently push the tray back into the phone until it clicks into place.

2. Initial Power On and Basic Setup

1. Press and hold the Power button (usually on the right side) until the OSCAL logo appears.
2. Follow the on-screen prompts to select your language, connect to a Wi-Fi network, and set up your Google account.
3. You will be guided through setting up security features such as fingerprint recognition and facial recognition.
4. Review and accept the terms and conditions to complete the initial setup.

3. Charging the Device

Before first use, it is recommended to fully charge your OSCAL Marine 1.

- Connect the Type C charging cable to the phone's charging port.
- Connect the other end of the cable to the provided phone charger.
- Plug the charger into a power outlet.
- The charging indicator will appear on the screen.

OPERATING INSTRUCTIONS

Operating System: DokeOS 4.1 based on Android 15

The Marine 1 runs on DokeOS 4.1, which is based on Android 15, offering an enhanced user experience with improved efficiency, privacy, personalization, convenience, and smoothness.

- **Efficiency Upgrades:** Includes features like Drag-and-Drop, App Cloning, and Split View with Smart App Pairing for multitasking.
- **Privacy Upgrades:** Offers Private Space, Per-app Screen Recording & Sharing, Enhanced Authentication Protection, and Authentication Requirement Before Changing USB Mode.
- **Personalization Upgrades:** Customize themes, quickly add widgets, and enhanced multi-layered color contrast.
- **Convenience Upgrades:** Wireless Bluetooth Popup Dialogue, Predicative Back Gestures, Independent Sound Control, and Lock Screen Shortcuts.
- **Smoothness Upgrades:** App Archiving, Detailed Storage Usage, and App Force Stop for optimized performance.

Upgraded DokeOS 4.1 Based on Android 15

Efficiency ↑ Privacy ↑ Personalization ↑ Convenience ↑ Smoothness ↑

Efficiency Upgrade ↑

Drag-and-Drop



App Cloning



Split View with Smart App Pairing



Privacy Upgrade ↑

Private Space



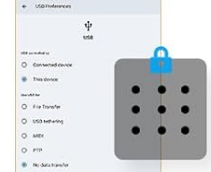
Per-app Screen Recording & Sharing



Enhanced Authentication Protection



Authentication Requirement Before Changing USB Mode

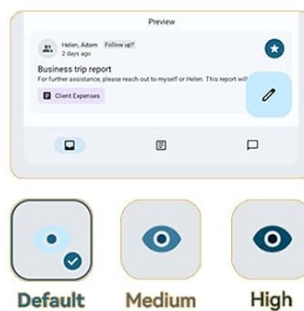


Personalization Upgrade ↑

Themes, As You Prefer



Quickly Add Widgets



Enhanced Multi-layered Color Contrast



Figure 4: Overview of DokeOS 4.1 efficiency and privacy features.

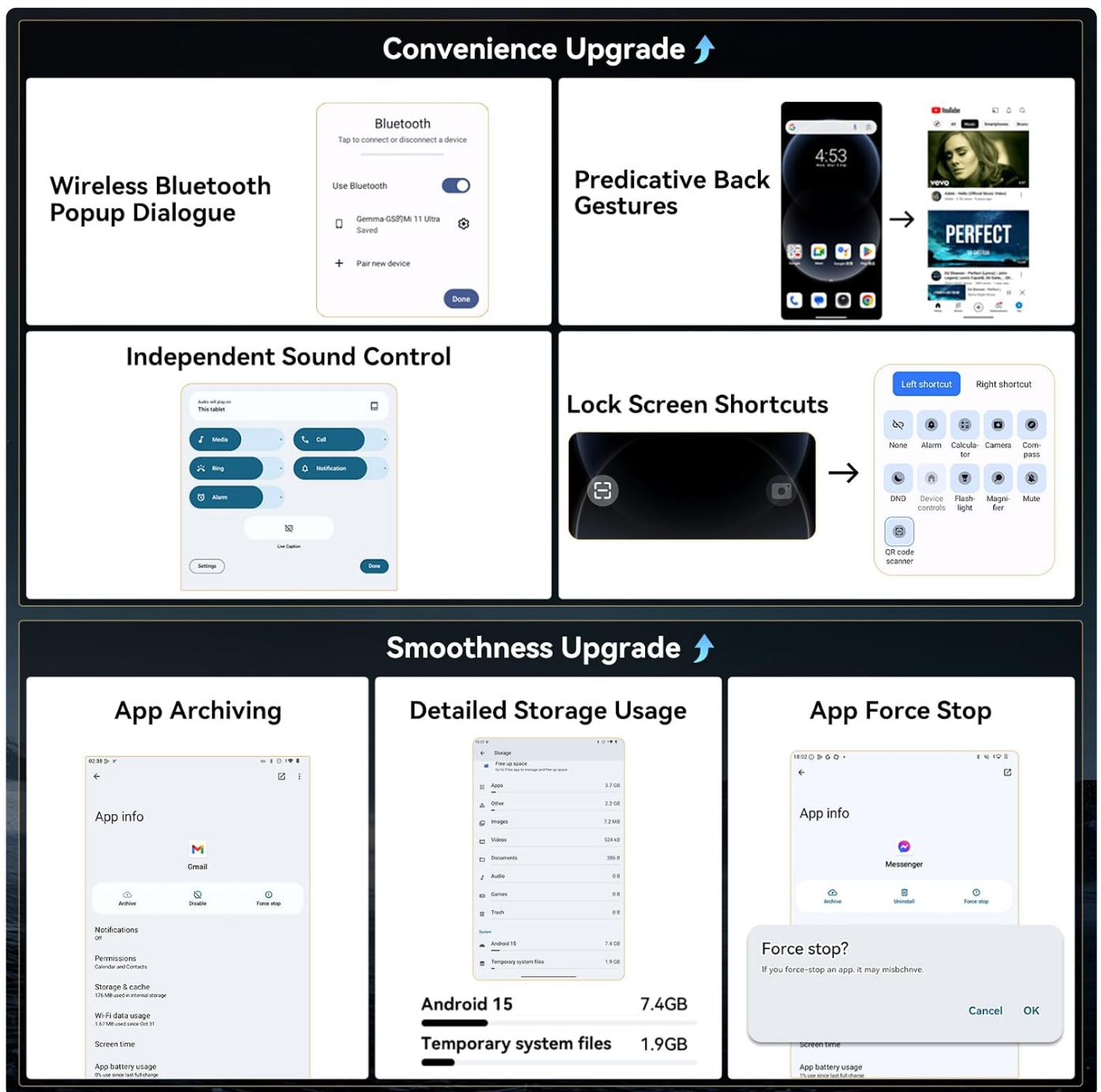


Figure 5: Overview of DokeOS 4.1 convenience and smoothness features.

Performance and Memory

The Marine 1 is equipped with a Unisoc T615 processor and ample memory for smooth operation.

- **Processor:** Unisoc T615 Octa-core chip (2x A75 1.8GHz + 6x A55 1.6GHz) for efficient performance.
- **RAM:** 12GB RAM (4GB physical + 8GB expansion) for seamless multitasking and app handling.
- **Storage:** 128GB ROM, expandable up to 2TB via MicroSD card, providing extensive space for photos, videos, and applications.

Swift, Efficient, Unstoppable

12nm 2xA75 1.8GHz+
6xA55 1.6GHz

GPU Arm Mali-G57
1core 850MHz

Up to 12GB RAM=
4GB RAM + 8GB Expansion
1:2



128GB ROM +
Up to 2TB TF Card Expansion



≈293K
Photos



≈4.9K
Short Videos



≈768K
Songs

Octa-core
Unisoc T615

38% ↑
Faster operating speed



289,549

Unisoc T615

29W

Unisoc T606

18W

Figure 6: Internal components highlighting the Unisoc T615 processor and memory configuration.

Gemini AI 2.0 Integration

The Marine 1 integrates Gemini AI 2.0, providing intelligent assistance for various tasks.

- **Voice Commands:** Interact hands-free for navigation, calls, messages, and app access.
- **Smart Q&A:** Understands, analyzes, and provides precise answers to your queries.
- **AI Smart Google Lens:** Features for visual searches, image text translation, object recognition, and content summarization.
- **AI Voice Wake-Up:** Gemini can be activated by voice even when the screen is off.

OSCAL x Gemini AI 2.0

**Hands-free,
Listens and Acts on
Your Commands.**

***Support Text/Voice/Image Input**

**Diverse Inputs, Deep Thinking Model Your
Personalized Answers at Your Fingertips**

Figure 7: Gemini AI 2.0 in action, assisting with commands and information retrieval.

Display Features

Experience vibrant visuals on the 6.56-inch IPS HD+ display.

- **Size:** 6.56 Inches
- **Resolution:** HD+ (1080P)
- **Refresh Rate:** 90Hz for smoother scrolling and animations.
- **Brightness:** Up to 450 nits for clear visibility in various lighting conditions.
- **Glove Mode:** Allows for screen operation even when wearing gloves.

6.56" HD+ IPS Brighter Clearer Display



90Hz

AI Smart
Refresh Rate

450 Nits

Brightness

83%

Screen-to-body
Ratio

180Hz

Touch Sampling Rate

Figure 8: Visual representation of the display's key specifications.

Connectivity and Navigation

- **NFC:** For convenient payments, public transport, and data transfer.
- **Navigation:** Supports GPS, GLONASS, Galileo, and Beidou for accurate positioning.
- **Dual SIM:** Supports two Nano SIM cards for flexible network usage.

Battery Life

The Marine 1 is equipped with a 5100mAh battery and AI power-saving mode for extended usage.

- **Battery Capacity:** 5100mAh
- **AI Power-Saving Mode:** Optimizes battery consumption for longer performance.

MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your OSCAL Marine 1, follow these care guidelines:

- **Cleaning:** Use a soft, lint-free cloth to clean the screen and body. For stubborn dirt, a slightly damp cloth can be used. Avoid harsh chemicals or abrasive materials.
- **Water and Dust Protection:** While the phone is IP68/IP69K rated, ensure all port covers are securely closed before exposing the device to water or dusty environments. Do not intentionally submerge the phone in water beyond the specified depth and duration.
- **Temperature:** Avoid exposing the phone to temperatures outside its operating range (-20°C to 60°C) for prolonged periods.
- **Impact:** Despite its rugged design, avoid unnecessary drops or impacts.
- **Charging:** Use only the provided charger and cable to prevent damage to the battery and device.

TROUBLESHOOTING

This section addresses common issues you might encounter with your OSCAL Marine 1.

Problem	Possible Cause	Solution
Phone does not turn on.	Battery is depleted or software crash.	Charge the phone for at least 30 minutes. If still unresponsive, press and hold the Power button for 10-15 seconds to force a restart.
Cannot connect to Wi-Fi.	Incorrect password, out of range, or router issue.	Ensure correct password. Move closer to the router. Restart your Wi-Fi router. Try forgetting the network and reconnecting.
Poor call quality or no network signal.	Weak signal area, SIM card not properly inserted, or network settings issue.	Move to an area with better signal. Re-insert the SIM card. Check network settings (Settings > Network & internet > Mobile network).
Apps are slow or crashing.	Too many apps running in the background, low storage, or app specific issue.	Close unnecessary background apps. Clear app cache (Settings > Apps > [App Name] > Storage & cache > Clear cache). Free up storage space. Update the app or the phone's software.
Fingerprint sensor not working.	Finger is wet/dirty, sensor is dirty, or software glitch.	Ensure your finger and the sensor are clean and dry. Re-register your fingerprint if the issue persists.

If the problem persists after trying these solutions, please contact OSCAL customer support for further assistance.

SPECIFICATIONS

Feature	Detail
Brand	OSCAL
Model Name	Marine 1 Black (12+128GB) Rugged Smartphone 2025
Operating System	Android 15 (with DokeOS 4.1)
RAM Memory Installed Size	12 GB (4GB + 8GB Expansion)
Memory Storage Capacity	128 GB (Expandable to 2TB)
CPU Model	Unisoc T615
CPU Speed	1.8 GHz
Screen Size	6.56 Inches
Resolution	1080P (HD+)

Feature	Detail
Refresh Rate	90 Hz
Product Dimensions	17.8 x 8.15 x 1.35 cm
Weight	304 g
Batteries	1 A batteries required. (included) - <i>Note: This likely refers to internal battery, not external A batteries.</i>
Protection Rating	IP68 & IP69K, MIL-STD 810H
Camera (Rear)	16 MP AI Main Camera
Camera (Front)	8 MP
Connectivity	NFC, Dual SIM, GPS + GLONASS + Galileo + Beidou

WARRANTY AND SUPPORT

OSCAL is committed to providing high-quality products and excellent customer service.

- **Warranty:** Your OSCAL Marine 1 comes with a 2-year warranty, including free software updates.
- **Customer Support:** A professional customer service team is available 24/7 to provide personalized, high-quality support.
- **Contact:** If you encounter any issues with your Marine 1, please contact OSCAL customer service. Refer to the product packaging or OSCAL's official website for contact details.

AI Smart Voice Control

Hands-free calls, messages, and app access. Voiceprint recognition ensures secure, personalized control.

Stay focused on the road with voice control for calls, messages, and navigation.

Use voice control to play music, set timers, or check recipes, all hands-free.

Control exercise videos or music without disrupting your routine.

*Supports applications included in the Google Mobile Services package only, such as Gmail, WhatsApp, Messaging, Google Maps, YouTube.

Figure 9: OSCAL's commitment to customer support and warranty.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question