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› OSCAL Pilot 1 Rugged Phone User Manual

OSCAL PILOT 1 Rugged Phone

OSCAL Pilot 1 Rugged Phone User Manual

Model: PILOT 1 Rugged Phone

Brand: OSCAL

1. INTRODUCTION AND OVERVIEW

The OSCAL Pilot 1 is a robust and versatile rugged smartphone designed for demanding environments and extensive use. It features a massive 15000mAh battery for extended power, a durable IP68/IP69K and MIL-STD-810H certified design, and a powerful 50MP AI main camera. Running on Android 14 with Gemini AI integration, it offers a smooth and intelligent user experience. Its unique 5W 138dB stereo speakers and dual LED flashlights enhance its utility for outdoor activities and emergencies.



Figure 1.1: OSCAL Pilot 1 Rugged Phone - Front and Rear View

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your OSCAL Pilot 1 Rugged Phone.

2. WHAT'S IN THE BOX

Upon unboxing your OSCAL Pilot 1 Rugged Phone, please ensure all the following items are present:

- 1x OSCAL Pilot 1 Rugged Phone
- 1x USB C Charging Cable
- 1x Phone Charger (33W)
- 1x User Manual

For a visual guide on unboxing, please refer to the official unboxing video:

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Video 2.1: OSCAL Pilot 1 Unboxing Overview

This video demonstrates the contents of the OSCAL Pilot 1 package and initial presentation.

3. SETUP

3.1. SIM Card and TF Card Installation

The OSCAL Pilot 1 supports dual SIM cards or one SIM card and one TF (microSD) card for expandable storage up to 2TB. To install:

1. Locate the SIM/TF card slot on the side of the phone.
2. Use the provided SIM ejector tool to open the tray.
3. Carefully place your SIM card(s) and/or TF card into the designated slots on the tray. Ensure correct orientation.
4. Gently push the tray back into the phone until it is flush with the device body.



Figure 3.1: SIM Card Slot and Other Features

3.2. Initial Charging

Before first use, it is recommended to fully charge your OSCAL Pilot 1. The phone supports 33W fast charging.

- Connect the USB-C charging cable to the phone's charging port.
- Connect the other end of the cable to the provided 33W phone charger.
- Plug the charger into a power outlet.
- The charging indicator will appear on the screen. A full charge can provide up to 71 days of standby time.

Top-tier MIL-STD-810H Rating, IP68 and IP69K Waterproof and Dustproof

Built to Endure, Ready for Anything



Figure 3.2: 15000mAh Battery and 33W Fast Charging

For more details on battery performance, refer to the official video:

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Video 3.1: OSCAL Pilot 1 Battery Life Demonstration

This video showcases the extended battery life and charging capabilities of the Pilot 1.

3.3. Power On/Off

- To power on: Press and hold the Power button (integrated with fingerprint sensor) until the OSCAL logo appears.
- To power off: Press and hold the Power button, then select 'Power off' from the options.

4. OPERATING YOUR OSCAL PILOT 1

4.1. Basic Phone Functions

- **Calls & Messaging:** Use the Phone and Messages apps for communication.
- **Internet Connectivity:** Connect to Wi-Fi networks via Settings > Wi-Fi, or use mobile data via

Settings > SIM cards and traffic management.

- **Navigation:** The phone features a Quad Navigation System (GPS+Glonass+Beidou+Galileo) for accurate positioning.

4.2. Gemini AI Integration

The OSCAL Pilot 1 integrates Google's Gemini AI, offering advanced AI solutions for various tasks. Gemini supports multiple forms of input and output, including text, images, audio, and video, enabling complex multimodal tasks and quick, high-quality responses.

- Quickly sift through phone apps.
- Receive reliable answers and information.
- Generate brainstorm ideas and kickstart creative processes.

For a detailed tutorial on how to upgrade and use Gemini AI, please watch the following video:

Your browser does not support the video tag.

Video 4.1: How to Upgrade and Use Gemini AI

This video provides step-by-step instructions for setting up and utilizing Gemini AI features on your device.

4.3. Camera Features

The Pilot 1 is equipped with a 50MP AI main camera (ISOCELL JN1 sensor) and a 32MP front camera with AI Beauty Mode 2.0. It includes advanced AI photo editing functions:

- **Magic Eraser:** Erase unwanted objects from your photos.
- **AI Sky Replacement:** Change the sky in your photos for different moods.
- **AI Portrait Light:** Enhance lighting for stunning portraits.



Figure 4.1: AI Camera Features

Learn more about the AI camera system in the official video:

Your browser does not support the video tag.

Video 4.2: Introduction of AI Camera System

This video highlights the capabilities of the Pilot 1's AI-powered camera for enhanced photography.

4.4. Audio and Flashlight

The Pilot 1 features world's first 5W 138dB stereo speakers, providing a powerful audio experience for outdoor activities. It also includes dual super-bright LED flashlights with 170 lumens brightness and an 18-meter reach, useful for night hiking, emergencies, or power outages. An SOS mode is available for increased safety.

15000mAh Battery Monster with 33W Fast Charging

Nonstop Power. Unstoppable Journey.



10W OTG Reverse
Charging



Longer Use. Extended Life Span.



AI Super Power
Saving Algorithm



AI Charging
Protection Algorithm



AI Customized
Charging Algorithms

Phone & Power Bank All in One



≈ 4 x iPhone 15



≈ 50x Smart Watch



≈ 1x Drone



≈ 4x Kindle

Figure 4.2: Dual LED Flashlight Features



Figure 4.3: 5W 138dB Stereo Speaker

4.5. Display and Performance

Experience vibrant visuals on the 6.67-inch IPS Ultra HD display with a 90Hz/60Hz refresh rate and 700 nits brightness. The phone is powered by a MediaTek G81 chip, 18GB RAM (6GB + 12GB virtual), and 256GB storage (expandable up to 2TB), ensuring smooth performance for gaming and multitasking.

Capture Beauty with Lens. Always Flawless with AI Magic.

The image displays a Samsung Galaxy S24 Ultra smartphone, highlighting its camera capabilities and AI Magic editing features. The phone is shown from a rear perspective, displaying the camera module and the 'SAMSUNG' logo. The screen shows a landscape photo of a mountain range.

32MP Selfie AI Camera

50MP Samsung ISOCELL JN1 AI Main Camera

2MP Depth Camera

AI Magic Eraser
Erase the Unwanted. Perfect Details.

AI Sky Replacement
Change the Sky. Every Day A Sunny Day.

AI Portrait Blur
Perfect Focus. Stunning Portrait.

AI Photo Unblur
Fewer Blurs. Sharper Memories.

AI Portrait Light
Natural Lighting. Flawless Portrait.

AI Color Focus
Boosted Vibrancy. Nostalgic Charm.

The image also includes several 'Before' and 'After' photo comparisons demonstrating the effects of these AI features. The 'Before' images show various subjects and backgrounds, while the 'After' images show the results of applying the AI Magic features, such as erasing unwanted elements, replacing the sky, blurring portraits, unblurring photos, adjusting lighting, and enhancing colors.

Figure 4.4: 6.67-inch IPS Ultra HD Display



Figure 4.5: MediaTek G81 Processor and Memory

4.6. NFC and Other Features

The OSCAL Pilot 1 supports NFC for convenient mobile payments, identification, and contactless ticketing. It also includes a useful ToolBag app with various utilities like a compass, height measure, torch, alarm bell, magnifier, sound meter, protractor, mirror, plumb bob, and more.



Figure 4.6: NFC Enabled Device

5. MAINTENANCE

5.1. Durability and Protection

The OSCAL Pilot 1 is built to withstand harsh conditions, certified with IP68, IP69K, and MIL-STD-810H ratings. This means it is:

- **Waterproof:** Submersible in 1.5 meters of water for up to 30 minutes.
- **Dustproof:** Fully protected against dust ingress.
- **Drop-proof:** Designed to endure drops from significant heights (up to 18 meters free-fall).

Audio That Delights, Safety That Shields.

World's Loudest
5W 138dB Stereo Speaker

34.5mm
Diameter Driver

5W
Max Output

138dB
Equates Shotgun

32Hrs
Nonstop Power





Strong Beats for Your Ride
Amplify Every Moment of Freedom with Epic Soundtracks



High-pitched Alarm Sound
Deters Wildlife from Coming Near in a Natural Way



High-volume SOS Covering 25 Meters
Guarantee Rescuers Hear Your Signal Clearly, even in a No-human Zone



Alert for Safety or Hazards
Loud Alerts to Warn of Potential Dangers

Figure 5.1: Extreme Durability Features

Observe the phone's rugged capabilities in action:

Your browser does not support the video tag.

Video 5.1: Military Phone - Waterproof, Drop-proof, Dust-Proof
This video demonstrates the robust protection features of the OSCAL Pilot 1.

5.2. Cleaning and Care

Despite its rugged design, proper care can extend the life of your device:

- Regularly wipe the screen and body with a soft, damp cloth.
- For stubborn dirt, use a mild soap solution and rinse thoroughly, ensuring all ports are sealed.
- Avoid using harsh chemicals or abrasive materials.
- Ensure all port covers are securely closed to maintain water and dust resistance.

6. TROUBLESHOOTING

If you encounter any issues with your OSCAL Pilot 1, consider the following common solutions:

- **Phone is unresponsive:** Press and hold the Power button for about 10-15 seconds to force a restart.
- **Battery not charging:** Ensure the charging cable and adapter are securely connected and undamaged. Try a different outlet.
- **Network issues:** Check if your SIM card is properly inserted. Try toggling Airplane Mode on and off. Verify your mobile data settings.
- **App crashes/lag:** Close background apps. Clear app cache (Settings > Apps > [App Name] > Storage > Clear cache). Restart the phone.
- **Sound issues:** Check volume settings. Ensure speakers are not obstructed.

If problems persist, please refer to the Warranty and Support section for contact information.

7. SPECIFICATIONS

Feature	Specification
Product Dimensions	7.3 x 3.35 x 0.87 inches
Item Weight	1.98 pounds
Operating System	Android 14
CPU Model	MediaTek Helio G81 (2 GHz)
RAM Memory Installed Size	18 GB (6GB + 12GB virtual)
Memory Storage Capacity	256 GB (Expandable up to 2TB)
Screen Size	6.67 Inches
Resolution	720x1640
Refresh Rate	90 Hz
Battery Capacity	15000 Milliamp Hours
Phone Talk Time	70 Hours
Main Camera	50MP (Rear)
Front Camera	32MP
Connectivity Technologies	Wi-Fi, USB, NFC
Special Features	15000mAh Battery, Fast Charging, Dual SIM, Built-In GPS, Water Resistant, Loud Speaker, Dual LED Flashlight, Gemini AI
IP Rating	IP68/IP69K

Feature	Specification
Military Standard	MIL-STD 810H

8. WARRANTY AND SUPPORT

OSCAL is committed to providing high-quality products and excellent customer service. Your OSCAL Pilot 1 Rugged Phone comes with:

- **2-Year Warranty:** Enjoy peace of mind with a comprehensive 2-year warranty covering manufacturing defects.
- **Free Software Updates:** Benefit from continuous improvements and new features through regular software updates.
- **24/7 Professional Customer Support:** Our dedicated support team is available around the clock to assist you with any queries or issues.

For support, please refer to the contact information provided in your product packaging or visit the official OSCAL website.