

OSCAL TANK 1

OSCAL TANK 1 5G Rugged Smartphone User Manual

Model: TANK 1 | Brand: OSCAL

1. PRODUCT OVERVIEW

The OSCAL TANK 1 is a robust 5G rugged smartphone designed for durability and extended performance. It features a large battery, advanced camera system, and a resilient build to withstand challenging environments.



Image: Front view of the OSCAL TANK 1 5G Rugged Smartphone.

2. WHAT'S IN THE BOX

Verify that all items are present in the product packaging:

- OSCAL TANK 1 5G Unlocked Rugged Phone
- Wrist Strap
- Charging Cable
- Charger
- User Manual
- SIM Slot Opener

US Carrier Compatibility

Only for the T-Mobile Carrier

Please check your carrier before purchase to ensure proper network service



Image: The OSCAL TANK 1 smartphone, wrist strap, charging cable, charger, user manual, and SIM slot opener laid out.

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Video: An unboxing video showcasing the OSCAL TANK 1 5G Unlocked Rugged Phone and its included accessories.

3. INITIAL SETUP

3.1 Charging the Device

Before first use, fully charge the OSCAL TANK 1 using the provided 55W fast charger and charging cable. The device supports rapid charging to minimize downtime.

- Connect the charging cable to the phone's charging port.
- Connect the charger to a power outlet.
- The charging indicator will appear on the screen.
- A full charge takes approximately 2 hours.



Image: Illustration of the OSCAL TANK 1 charging via wired connection and a charging dock, highlighting 55W fast charging.

3.2 SIM Card Installation

To install your SIM card(s) and/or microSD card:

1. Locate the SIM card tray on the side of the phone.
2. Insert the SIM ejector tool (or a thin pin) into the small hole on the tray to open it.
3. Carefully pull out the SIM card tray.
4. Place your Nano-SIM card(s) and/or microSD card into the designated slots on the tray. Ensure correct orientation.
5. Gently push the tray back into the phone until it clicks into place.

Note: This device is primarily compatible with T-Mobile in the US. Please check with your carrier for network compatibility before use.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- To power on: Press and hold the Power button until the OSCAL logo appears.
- To power off: Press and hold the Power button, then select "Power off" from the options.
- To restart: Press and hold the Power button, then select "Restart" from the options.

4.2 Battery Management

The OSCAL TANK 1 features a 20,000mAh battery for extended usage. It supports 55W fast charging and 5W OTG reverse charging.

- **55W Flash Charge System:** Quickly recharges the device.
- **5W OTG Reverse Charging:** Use your phone as a power bank to charge other compatible devices.
- **AI Smart Power Saving:** Optimizes power allocation to enhance battery life.



Image: Diagram illustrating the 20,000mAh battery capacity and its usage duration for various activities.

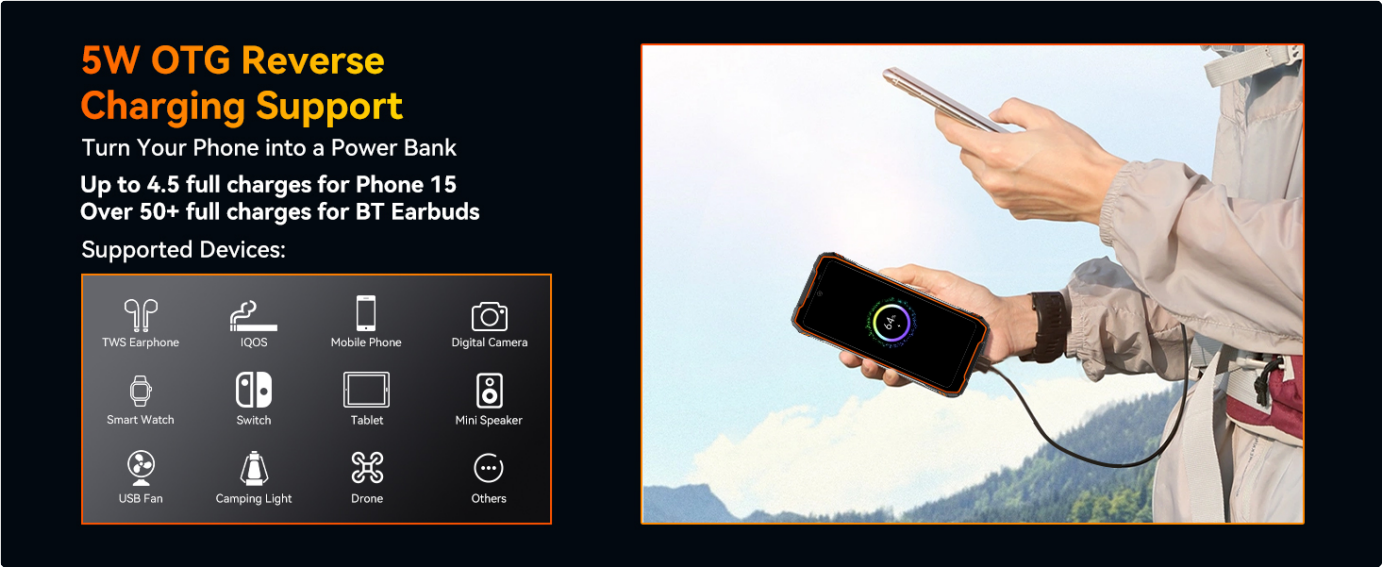


Image: The OSCAL TANK 1 demonstrating 5W OTG reverse charging, powering another smartphone.

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Video: Demonstrates the OSCAL TANK 1's battery features and IP68/IP69K durability.

4.3 Display Features

The device is equipped with a dual-screen system:

- **6.78" FHD+ Main Screen:** 120Hz refresh rate, 700-nit brightness for clear visibility in sunlight. TÜV Low Blue Light certified for eye comfort.
- **2.01" Rear Touchscreen:** Displays time, compass, and notifications. Allows high-resolution selfies using the main camera, saving battery.

6.78-inch 2.4k FHD+ Eye-comfort Display

Sharper Scenes. Smother Feels



1080*2460
High Resolution



16.7M Colors
Vivid, Vibrant Visuals



120Hz
Dynamic Refresh Rate



TÜV SÜD
Low Blue Light Certification



700 Nits
Brightness



240Hz
Touch Sampling Rate

700nits Brightness

Over 40% Brighter Than Conventional Displays ↑

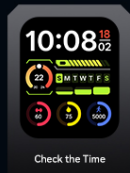


Image: The OSCAL TANK 1 main display showing vibrant colors and high resolution, with specifications like 120Hz refresh rate and 700 nits brightness.

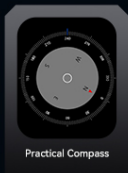
2.01-inch Secondary Display

Frontline Functionality. Rear-side Ease

More Essential Tools at Secondary Screen



Check the Time



Practical Compass



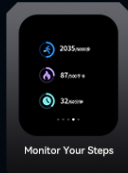
Answer/Reject Incoming Calls



Check the Messages



Check the Weather



Monitor Your Steps



Selfie on the Secondary Screen

Main-Camera Clarity, Ultimate Composing Freedom

Image: The OSCAL TANK 1's rear secondary display showing various functions like time, compass, and selfie mode.

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Video: Showcases the features and functionality of the OSCAL TANK 1's display.

4.4 Performance and Storage

Powered by the 6nm Dimensity 7050 5G chip, the TANK 1 offers robust performance for multitasking and demanding applications.

- **Processor:** MediaTek Dimensity 7050 5G (6nm process).
- **RAM:** 16GB (expandable to 48GB).
- **Storage:** 512GB (expandable to 2TB via TF card).
- **Cooling System:** Five-layer cooling system to prevent throttling.
- **Connectivity:** Supports 5G and Wi-Fi 6 for fast data speeds.

MediaTek Dimensity 7050 5G

Speed Up. Gear Up. Stay Ahead

20% Higher
CPU Performance ↑

601,430 Antutu
Benchmark
Highest-ever ↑

MediaTek NPU 550
AI-camera Enhancements Faster

38% Smoother
Gaming Performance ↑

Advanced TSMC
6nm Process

LPDDR5+UFS3.1
Faster Data Processing



Image: Visual representation of the MediaTek Dimensity 7050 5G chip and its performance metrics.

Massive Storage

Faster to Run. More to Store

Atomized Memory 2.0
9% More RAM Available ↑

Up to 48GB RAM =
16GB RAM +
32GB RAM Expansion
1:2 RAM Expansion Technology



Up to 512GB ROM +
2TB TF Card Support

- ≈ 344K+ Photos
- ≈ 5K+ Short Videos
- ≈ 903K+ Songs

Image: Illustration of the phone's RAM and ROM, highlighting the 48GB RAM and 512GB ROM with 2TB TF card support.

Advanced Multi-layer Cooling System

Stay Cool. Perform Hard

25% Better Cooling Performance ↗



9009.4mm²
Overall Heat Dissipation Area

2794mm²
Cooling Copper Pipe

735.4mm²
Cooling Silicon

180mm²
Heat Dissipation Gel

4400mm²
Graphite

900mm²
Copper Foil

Image: Exploded view of the OSCAL TANK 1's multi-layer cooling system components.



Image: Comparison of 5G and Wi-Fi 6 speeds against previous generations.

4.5 Durability Features

The TANK 1 is built to military-grade durability standards, ensuring resilience in harsh environments.

- **IP68/IP69K Certified:** Water and dust resistant. Submersible in 2m water for 30 minutes.
- **MIL-STD-810H:** Survives 1.5m concrete drops, 10m free falls, and 1200kg pressure.
- **Temperature Resistance:** Functions reliably from -30°C to 60°C.
- **UL94 HB Flame-Retardant:** Offers basic flame resistance.
- **Intelligent Pressure Relief Valve:** Ensures safe use at high altitudes.



Image: Exploded view of the OSCAL TANK 1's armored design, highlighting reinforced corners, aerospace alloy frame, and dual waterproof seals.

Industry-leading IP68 & IP69K Rated Water & Dust Resistance



Submerged in 2m Water for 30 Minutes



High-Pressure Water Jets at Close Range (8~10MPa, 85°C for 30s)



99% Dust Resistance



Simulated Heavy Rainfall & Water Immersion Conditions



Underwater Camera

Image: The OSCAL TANK 1 submerged in water, sprayed with high-pressure water jets, and covered in dust, demonstrating its IP68/IP69K ratings.

Industry-leading Durability Certificated by MIL-STD-810H



-20°C to 60°C Stable Operation
Rapid Shifts from -55°C to 70°C



UV & Sunlight Proof



Marine-Grade Anti-Corrosion



Mold & Mildew Resistant

Image: The OSCAL TANK 1 in various extreme conditions, including cold, heat, UV exposure, and showing resistance to corrosion and mold, certified by MIL-STD-810H.

UL94 HB Flame-Retardant Certification

Offers basic flame resistance to enhance safety in tough environments



Image: The OSCAL TANK 1 in a fire-related scenario, illustrating its UL94 HB flame-retardant certification.

4.6 Camera System

Capture high-quality images and videos with the versatile camera setup:

- **64MP Main Camera:** Large sensor for increased light sensitivity, ideal for various conditions.
- **50MP AI Front Camera:** For crisp and bright selfies.
- **20MP Night Vision Lens:** Detects objects up to 30 meters in complete darkness without a flashlight.
- **Video Recording:** Supports 4K 30fps video recording.
- **Pro-Level Shooting Assistance:** Includes guidelines, exposure control, and smart level alerts.



Image: Examples of images captured with the 20MP Night Vision Camera, showing clear vision in dark environments.



Image: Details of the 64MP AI True-Chroma Camera, highlighting its sensor and image processing capabilities.

50MP Selfie AI Camera

Sharp. Smart. Stunning



4-in-1 Pixel Binning Technology
Enhanced Light Sensitivity



1.28μm
Large Fusion Pixel

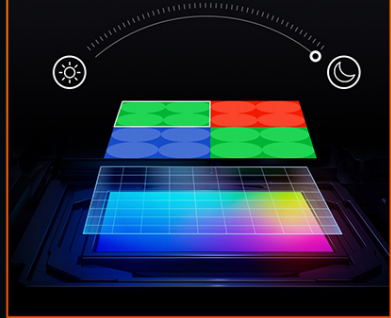


Image: Examples of selfies taken with the 50MP Selfie AI Camera, showcasing enhanced light sensitivity.

4K 30fps Video Recording

Rugged. Real. Remarkable.

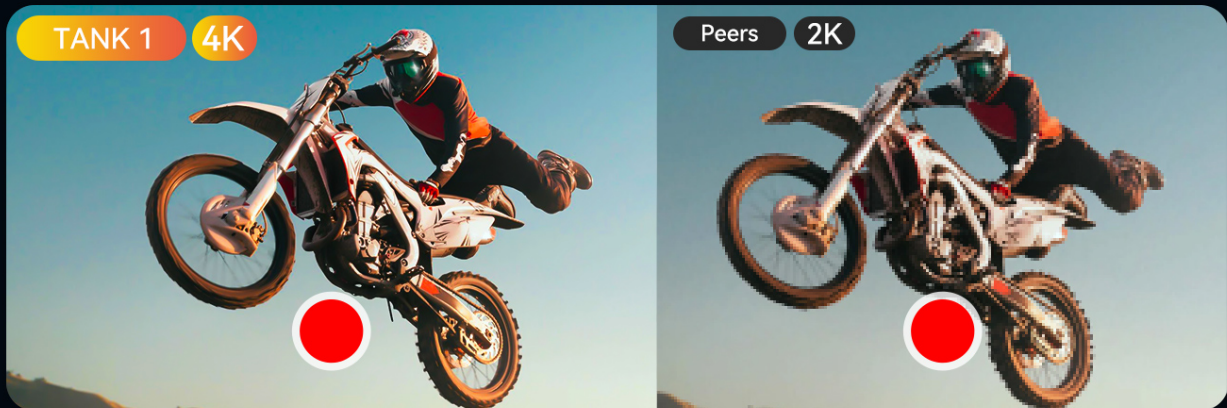


Image: Comparison of 4K video quality from the OSCAL TANK 1 versus a 2K peer device.

Pro-Level Shooting Assistance

Smart Control, Perfect Framing

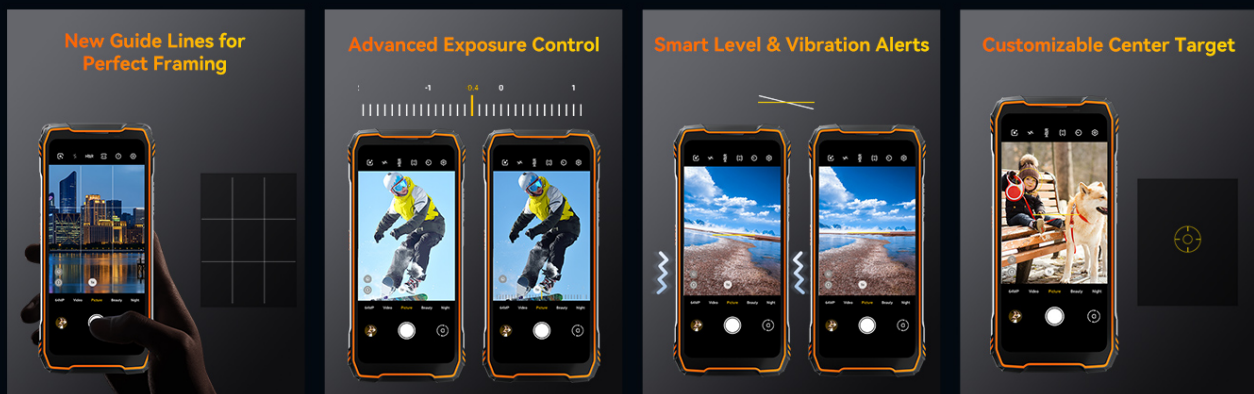


Image: Screenshots of the camera interface showing various pro-level shooting assistance features.

4.7 Outdoor Toolbox

The TANK 1 includes several tools for outdoor adventures and rugged work:

- **170-lumen Dual Flashlight:** With SOS strobe mode (45h runtime).
- **100dB Speaker:** For loud environments.
- **Built-in IR Remote:** Control compatible devices.
- **Underwater Camera Mode:** Capture photos and videos underwater.
- **Glove Mode 3.0:** Allows precise operation with thick gloves.
- **One-touch Mud Expulsion:** Clears debris from the device.



Image: The OSCAL TANK 1's 170-lumen dual-beam flashlight in various scenarios like power outages and camping.

Powerful Audio

2W High-Power Speaker, 100dB Loudness



Outdoor-Optimized Acoustics




Built Tough for the Elements




Reliable in Emergencies

Image: The OSCAL TANK 1's 100dB speaker in outdoor settings, emphasizing its powerful audio output.


More Practical Tools




Infrared Remote Control



Underwater Camera



One-Touch Drainage



Glove Mode 3.0



5. in-1 Dual-Frequency Navigation (L1+L5)

Image: A collage showing the IR remote, underwater camera, one-touch drainage, glove mode, and 5-in-1 dual-frequency navigation features of the OSCAL TANK 1.

4.8 Software and AI Features

The TANK 1 runs on DokeOS 4.2 based on Android 15, offering enhanced AI features and privacy controls.

- **AI Features:** "Hi Doki" voice assistant, object removal, document scanning, smart video generation.
- **Privacy:** Private Space and partial screen sharing.
- **Updates:** Backed by 3 major Android version updates.

The latest DokeOS 4.2 Based on Android 15

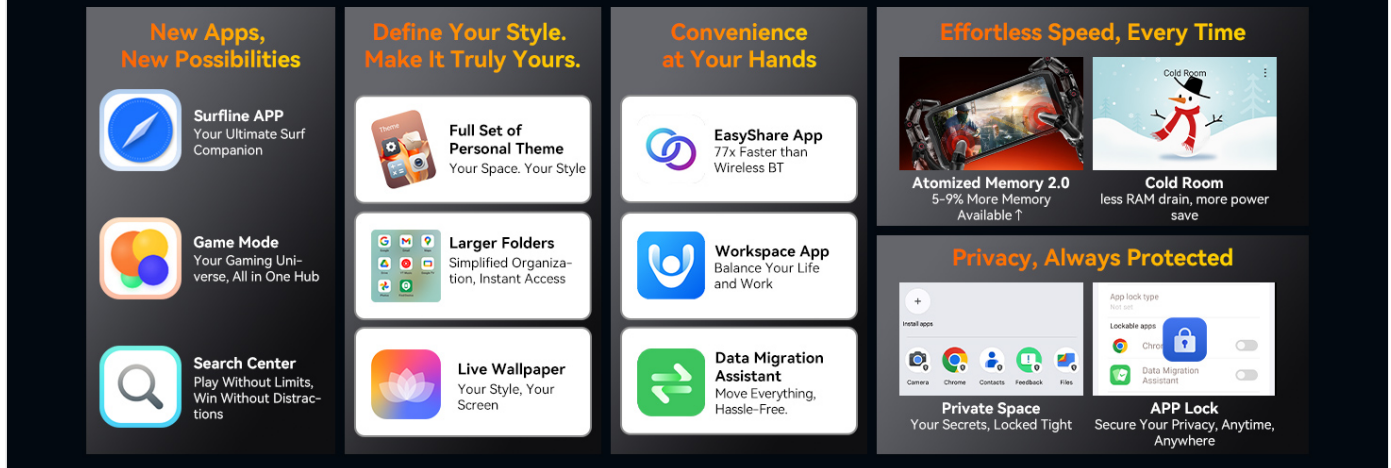


Image: Overview of DokeOS 4.2 features, including AI capabilities, personalization, convenience tools, and privacy settings.

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Video: Highlights the main features of the OSCAL TANK 1 5G Unlocked Rugged Phone, including its large battery and rugged design.

5. MAINTENANCE

To ensure the longevity and optimal performance of your OSCAL TANK 1:

- **Cleaning:** Wipe the device with a soft, damp cloth. Avoid harsh chemicals. For mud or debris, use the one-touch mud expulsion feature if applicable, or rinse gently with clean water and dry thoroughly.
- **Temperature:** Operate the device within its specified temperature range (-30°C to 60°C). Avoid prolonged exposure to extreme heat or cold.
- **Charging:** Use only the original charger and cable provided to prevent damage and ensure efficient charging.
- **Software Updates:** Regularly check for and install system updates (OTA updates) to maintain security and optimal functionality.

6. TROUBLESHOOTING

- **No Mobile Data/Network Issues:**
 - Ensure your SIM card is correctly inserted.
 - Verify that mobile data is enabled in your phone settings.
 - Confirm that your carrier (e.g., T-Mobile in the US) is compatible with the device. Some carriers may not fully support all features or require specific settings.
 - Restart the phone.
- **Battery Draining Quickly:**
 - Check for background apps consuming excessive power.
 - Reduce screen brightness or enable adaptive brightness.
 - Utilize the AI Smart Power Saving features in settings.
 - Ensure the device is not exposed to extreme temperatures.
- **Pre-installed Apps/Permissions:**
 - Some pre-installed applications may have default permissions that cannot be fully disabled. Review app permissions in settings and disable any unnecessary ones where possible.

- For critical privacy concerns, consider limiting sensitive data on the device or using alternative apps.

- **Device Unresponsive:**

- Press and hold the Power button for about 10-15 seconds to force a restart.
- If the issue persists, contact customer support.

7. SPECIFICATIONS

Model Name	OSCAL TANK 1 5G Unlocked Rugged Phone
Operating System	Android 15 (DokeOS 4.2)
CPU Model	MediaTek Dimensity 7050 5G
RAM Memory Installed Size	48 GB (16GB physical + 32GB expansion)
Memory Storage Capacity	512 GB (expandable to 2TB)
Screen Size	6.78 Inches (Main Display)
Rear Touchscreen	2.01 Inches
Refresh Rate	120 Hz
Resolution	4K (Main Display)
Battery Capacity	20000 Milliamp Hours
Charging Time	2 Hours (with 55W charger)
Main Camera	64MP
Selfie Camera	50MP
Night Vision Camera	20MP
Durability Ratings	IP68, IP69K, MIL-STD-810H
Connectivity Technologies	5G, GPS, QZSS, OTG
Item Weight	1.41 pounds (640 Grams)
Package Dimensions	8.19 x 8.15 x 1.93 inches

8. WARRANTY AND SUPPORT

OSCAL provides comprehensive after-sales support for the TANK 1 5G Rugged Smartphone:

- **Warranty:** The product comes with a two-year warranty.
- **Software Updates:** Online OTA (Over-The-Air) updates are provided to ensure device safety and optimal functionality, including 3 major Android version updates.
- **Customer Service:** If you receive an incomplete or damaged product, or encounter any issues, please contact OSCAL customer service immediately.

For further assistance, please refer to the official OSCAL website or contact their support channels.

