

ORICO TS500

ORICO TS500 Remote Storage

USER INSTRUCTION MANUAL

1. Introduction

Welcome to the ORICO TS500 Remote Storage User Manual. This document provides detailed instructions for setting up, operating, and maintaining your ORICO TS500 device. The TS500 is designed to be a versatile team and home storage center, offering secure and accessible data management with advanced features like VPN exclusive channels, Samba, and DLNA protocols.

Please read this manual thoroughly before using the device to ensure proper installation and optimal performance.

2. Product Overview

The ORICO TS500 is a high-capacity Network Attached Storage (NAS) enclosure featuring 5 drive bays, supporting up to 110TB of storage. It is engineered for both individual and team use, providing a centralized solution for data storage, sharing, and access from anywhere.



Figure 2.1: Front and side view of the ORICO TS500 Remote Storage device, showcasing its sleek design and front panel indicators.

Key functionalities include secure remote access via a dedicated app with VPN encryption, multimedia sharing capabilities through Samba and DLNA, and robust data protection with hardware RAID support. Its efficient cooling system ensures stable and long-term operation.

3. Features

- **Team Storage Center:** Equipped with 5 drive bays, supporting up to 110TB, ideal for managing and securing data for teams and homes. Features a smart APP for PC and mobile.
- **Anytime, Anywhere Access:** Dedicated app provides secure fingertip access to files with automatic VPN

security, enabling control from any location. Both mobile devices and PCs can store and retrieve pictures, videos, and documents.

- **Multimedia Sharing:** Supports SAMBA for file sharing across multiple devices and DLNA for creating a family video library, facilitating effortless media streaming.
- **Stable and Durable:** Features a built-in fan for continuous, stable cooling, ensuring efficiency and longevity even under high workloads. The typical operating temperature is around 35°C.
- **Flexible Expansion:** Easily upgrade and expand storage space to adapt to future data demands. Supports Hardware RAID.



Figure 3.1: The ORICO TS500 functioning as a central storage unit in a team office environment, facilitating file sharing and collaboration.



Your Private Video Library

DLNA function – Project videos from the NAS to the TV

Figure 3.2: Illustration of the VPN-SDVN professional data protection, showing peer-to-peer connection between the NAS and devices without public cloud involvement.

Building Team Office Center

Easily set up file sharing centers between individuals and teams



Figure 3.3: The ORICO TS500 connected to a television, demonstrating its DLNA function for projecting videos and creating a private video library.

High Efficiency Heat Dissipation

Built-in high speed bass fan, fast cooling to keep the hard disk stable and quiet.



Cooling Fan

Operational State

CPU Temperature:
35.0°C

Hard Drive Temperature:
35°C

Intranet Transmission:
60-80MB/s

Cross-region Transmission:
4-7MB/s



Figure 3.4: Internal view of the ORICO TS500 highlighting its high-efficiency heat dissipation system with a built-in cooling fan, ensuring stable operation.

4. Setup

Follow these steps for the initial setup of your ORICO TS500:

1. **Install Hard Drives:** Push the hard drives into the NAS bays. The TS500 supports tool-free installation.
2. **Download Welink APP:** Search for "Welink" in your device's App Store (iOS) or Google Play Store

(Android), or download from welink.io.

3. **Connect Device:** Use the Welink APP to scan the QR code on your ORICO TS500 to connect it to your mobile device or PC.
4. **Start Storage Journey:** Once connected, you can begin managing your storage through the Welink APP.
5. **Format Hard Disk:** Navigate to Settings > Node Space in the APP and format the hard disk as required. Confirm the formatting process.

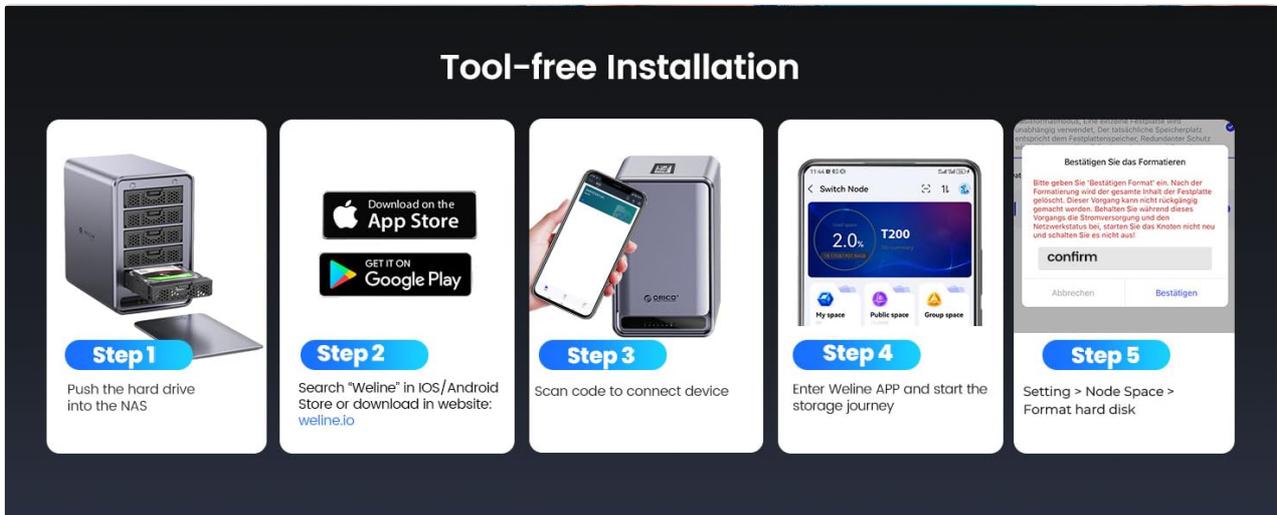


Figure 4.1: Visual guide for the tool-free installation process, from inserting drives to connecting via the Welink app and formatting.

5. Operating Instructions

The ORICO TS500 offers various modes of operation for data management and sharing:

5.1 Data Access and Management

Utilize the dedicated Welink APP on your PC or mobile device to access and manage your files. The app provides a user-friendly interface for organizing documents, photos, and videos.



Figure 5.1: Overview of global accessibility and data transfer speeds for the ORICO TS500, including intranet and cross-region transmission rates.

5.2 Remote Access with VPN

The TS500 features an exclusive VPN channel, ensuring secure remote access to your data without passing through public cloud servers. This peer-to-peer connection enhances data privacy and security.

5.3 Multimedia Sharing (Samba & DLNA)

- **Samba:** Enable Samba protocol to share files across multiple devices within your local network, making it easy to access your NAS content from various computers and smart devices.
- **DLNA:** Use DLNA to stream media content (videos, photos, music) directly from your TS500 to DLNA-compatible devices such as smart TVs, gaming consoles, and media players.

5.4 RAID Configuration

The ORICO TS500 supports various RAID modes (RAID 0, RAID 1, RAID 5, RAID 10) to optimize for speed or data redundancy based on your needs. Refer to the Welink APP settings for configuring your preferred RAID setup.

Raid Mode	Description	Min Disks	Capacity	Cost	Performance	Fault Tolerance	Common Implementation
Raid 0	Striping	2	S*N	*	****	*	Live streaming video editing
Raid 1	Mirroring	2	S*N/2	***	**	****	OS, Database operations
Raid 5	Striping with Parity	3	S*(N-1)	*	****	***	Information warehousing
Raid 10	Mirroring and striping	4	S*N/2	***	*****	****	Fast databases, application servers

Figure 5.2: Table detailing the four supported RAID modes (RAID 0, 1, 5, 10), their descriptions, minimum disk requirements, capacity, performance, fault tolerance, and common implementations.

5.5 File Compatibility

The TS500 is compatible with multiple file formats, allowing you to store and access a wide range of media and document types.

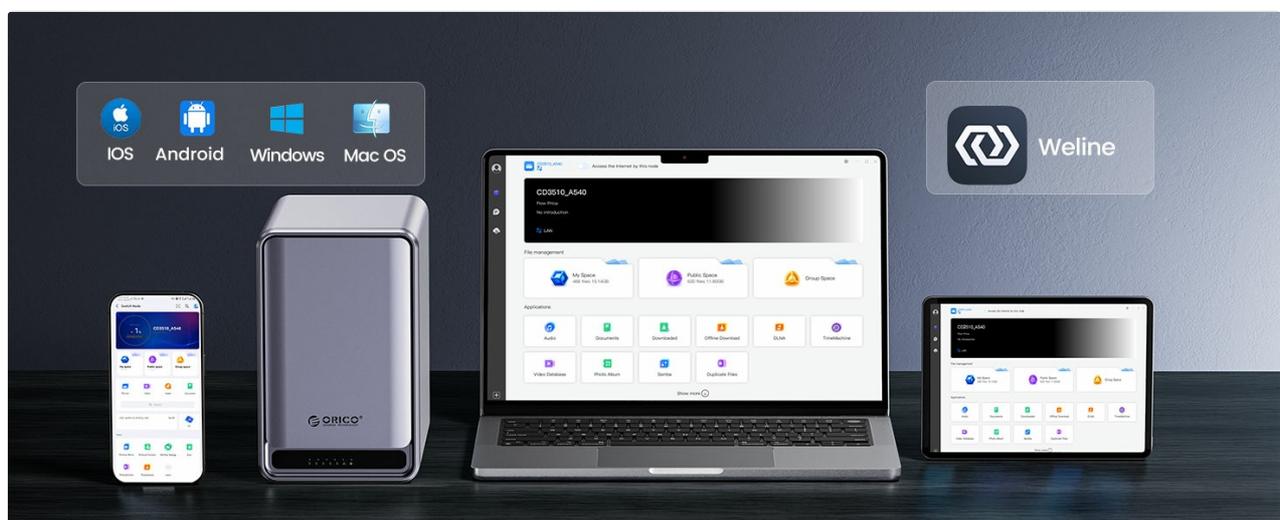


Figure 5.3: Visual representation of the ORICO TS500's compatibility with various file formats, including images, videos, documents, and games.

6. Maintenance

To ensure the longevity and optimal performance of your ORICO TS500, consider the following maintenance guidelines:

- **Cooling:** The built-in fan actively cools the device. Ensure proper ventilation around the unit and avoid blocking air vents. Regularly check for dust accumulation and clean if necessary to maintain efficient airflow.
- **Firmware Updates:** Periodically check for firmware updates through the Welink APP or ORICO's official website. Updates often include performance improvements, bug fixes, and new features.
- **Data Backup:** While RAID configurations offer data redundancy, it is always recommended to maintain external backups of critical data.
- **Environmental Conditions:** Operate the device in a stable environment, away from extreme temperatures, direct sunlight, and excessive humidity.

7. Troubleshooting

If you encounter issues with your ORICO TS500, consider the following common troubleshooting steps:

- **Device Not Powering On:** Ensure the power adapter is securely connected to both the device and a working power outlet.
- **Cannot Access Files:** Verify network connectivity. Check if the Welink APP is properly connected to the device. Ensure hard drives are correctly installed and formatted.
- **Slow Performance:** Check network speeds. Ensure the device has adequate ventilation. If using RAID, verify the health of all drives.
- **App Connection Issues:** Ensure your mobile device or PC is connected to the internet. Restart the Welink APP and the TS500 device.

For persistent issues or advanced troubleshooting, please refer to the customer support section.

8. Specifications

Attribute	Value
Brand	ORICO
Model	TS500
Material	Metal
Compatible Devices	Laptop, Desktop

Attribute	Value
Mounting Type	Tabletop
Package Dimensions	13.5 x 13.07 x 8.7 inches
Item Weight	7.13 pounds
Manufacturer	SHENZHEN ORICO TECHNOLOGIES CO.,LTD
Date First Available	May 21, 2024

9. Warranty and Support

ORICO offers lifetime service support for the TS500. If you have any questions regarding APP settings, NAS configurations, or any other technical inquiries, please do not hesitate to contact ORICO customer service. For support, please visit the official ORICO website or contact their customer service channels as provided with your product packaging.

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Documents - ORICO – TS500

Price guide		
Product categories		
AR/VR, 7/8th, 1 TB	Appliances	Audio / Music / Speakers
Barcode / Chargers	Barcode, Handscopes & Navigation	Bluetooth
Cables & connectors	Calculators	CD / DVD / Blu-Ray discs
Cell Phones / Smart Phones	Computer accessories for Android PC	Computer Cables
Computers - Desktop / accessories	Computers - built	Digital cameras
Digital cameras	Digital projectors	Drinks
Drinks	Electronic White Boards	Electronics
Fans / Cooling / Light / Molds	Engines & Toys	Entertainment & Games
Glasses - eyeglasses	GPS	Graphics cards
Health Devices & Smartwatches	Health and safety (COVID-19 specific)	Home Automation / Smart Home
Input devices	USB switches & cables	LEDs
LED Lights - neon lighting	Mobile control / Mobile cases / MP3 / DVD	Memory
Monitors	Monitors	Networks / AIO
Motherboards - Intel	Multi-0 Card-on-cards	Networks
Mouse/trackballs	Network/Single-carry bags	Peripherals/Spice Parts
Mousebells	Office furniture & supplies	Photo Frames
Painted case	Projectors, Copiers, Stamp / Fax Machines	Processors - AIO
Processors - Intel	Projectors	Refrigerated products
Scanners	Scanners	Security cameras
Security products	Security	Software
Smart Power	Tablet PCs & eBook Readers	Storage
Thunderbolt expansion	Tools - heavy duty & DIY	Tools kits & tools
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Batteries & Chargers	Broadcasters, Parabolic & Rangefinders	Bluetooth
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Cell Phones - Smart Phones	Computer Accessories for branded PCs	Computer Chassis
Computer hardware - accessories	Computer - parts	Digital cameras
Digital notebooks	Digital projectors	Displays
Drives	Electric kites, kites, kites	Electricity
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Garage systems	GPS	GPS units
Health Solutions & Brackets	Health and safety (COVID-19 specific)	Home Automation / Smart home
Headphones	High resolution & audio	Lighting
LED Lights - eco lighting	Music centres - Music boxes / MP3 DVD	Monitors
Monitors	Monitors	Multimedia - AMD
Notebooks - case	Multi CD and DVD units	Network
Notebook accessories	Notebook bags - carry bags	Notebook Screen Parts
Notebooks	Office hardware & supplies	Photo frames
Parts of sale	Printers, Copiers & Fax Machines	Processors - AMD
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Scanners	Scanners	Security cameras
Security products	Security	Software
Solar Power	Tablet PCs & e-book Readers	Telephones
Theatrical equipment	Tools - Power tools & SDS	Tools, bits & tools
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