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Gigastone MSD-1TB-4-1PK

GIGASTONE 1TB Micro SD Card User Manual

Model: MSD-1TB-4-1PK

1. INTRODUCTION

Thank you for choosing the GIGASTONE 1TB Micro SD Card. This high-performance memory card is designed for demanding applications such as 4K Ultra HD video recording, high-resolution photography, and fast application loading on smartphones and tablets. With its robust design and advanced features, it provides reliable storage for your valuable data across a wide range of compatible devices.

GIGASTONE

4K Camera Pro



Image: The GIGASTONE 1TB Micro SD Card, showcasing its branding and capacity.

2. PRODUCT FEATURES

- **High-Speed Performance:** Read speeds up to 150 MB/s and write speeds up to 130 MB/s, ideal for 4K Ultra HD video recording and rapid data transfers.
- **A2 Application Performance Class:** Provides faster application loading and smoother performance for smartphones and tablets.
- **V30 Video Speed Class:** Ensures sustained video recording performance for 4K UHD and Full HD videos.
- **Massive Storage Capacity:** 1TB (Terabyte) of storage, allowing for extensive collections of photos, videos, and applications.
- **Wide Compatibility:** Suitable for use with various devices including laptops, tablets, PCs, smartphones, cameras (DSLR, action cameras like GoPro), dash cams, camcorders, surveillance systems, e-readers, drones, and gaming consoles (e.g., Nintendo Switch).
- **Durable Design:** Built to withstand harsh conditions, featuring X-ray proof, waterproof, shockproof, and temperature-proof properties.
- **5-Year Free Data Recovery Warranty:** Offers peace of mind with a comprehensive warranty that includes data recovery services.

Ultra Speed

GIGASTONE
4K Camera Pro

1 TB
A2 V30
microSDXC I



up to

150 Read
MB/s

130 Write
MB/s



Image: Illustrates the ultra-high read and write speeds of the GIGASTONE Micro SD card, showing a drone and a person holding a GoPro.

Improves Device's Speed Grade



Input/Output Operations Per Second (IOPS)
Based on SDA (SD Association) Grading Standards



A2 4000 / 2000

A1 1500 / 500

A2 Grade (Application Performance Class 2) Memory Card

Image: Demonstrates how the A2 grade improves device speed, showing a comparison of Input/Output Operations Per Second (IOPS) between A2 and A1 grades.

3. SETUP AND INSTALLATION

Before using your GIGASTONE Micro SD card, especially with devices like dash cams or surveillance systems, it is crucial to follow these setup steps:

1. Read Your Device's User Manual:

- Check the maximum capacity supported by your device.
- Check the supported file systems (e.g., exFAT or FAT32).

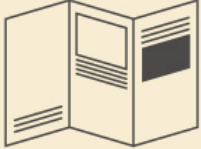
Notice: If your device does not come with a user manual, please contact the device manufacturer directly for compatibility information.

2. Format the Micro SD Card (If Needed):

- For 64GB or above capacity cards (including your 1TB card), the default file system should be **exFAT**.
- If your device only supports **FAT32**, you must format your micro SD card to FAT32 to ensure compatibility. You may need to use a third-party tool for this, as Windows' built-in formatter might not offer FAT32 for large capacities.

How to use Gigastone Micro SD cards for dash cams and surveillance device?



STEP 1. Read The User Manual Of Your Device



- A** Check the maximum capacity supported
- B** Check the supported file systems (It could be exFAT or FAT32)

Notice:
If there's no user manual come with your device, please contact the device company directly.

STEP 2. Format The Micro SD Card If Needed



- A** The default file system for 64GB or above capacity should be exFAT.
- B** If your device only supports FAT32, please format your micro SD card as FAT32 to ensure they are compatible.

(Download the software from the following URL: <https://fat32-format.en.softonic.com/>)

Use GIGASTONE memory cards without worries!




Image: Instructions on how to use Gigastone Micro SD cards for dash cams and surveillance devices, emphasizing checking device manual and formatting.

To insert the Micro SD card into your device, locate the memory card slot. Gently push the card into the slot until it clicks into place. To remove, push the card in again until it springs out slightly, then pull it out.

GIGASTONE Adapter Printing

Both Designs are GIGASTONE'S Standard Printing

These Adapters are identical

Universal Fit for microSD
to SD Conversion



Universal Fit for microSD
to SD Conversion



Both adapters function the same and
deliver the same high-quality experience

Image: Depicts two designs of the GIGASTONE Micro SD to SD adapters, clarifying that both function identically for conversion.

4. OPERATING INSTRUCTIONS

The GIGASTONE 1TB Micro SD Card is designed for optimal performance in various applications:

4.1. 4K UHD Video Recording

This card's V30 speed class and high write speeds make it ideal for capturing smooth, high-quality 4K Ultra HD video. Ensure your camera or drone is set to record at the appropriate resolution and bitrate for optimal results. Always use the card directly in the device for recording, or with the provided adapter if the device requires a standard SD card slot.

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Action Camera 4K UHD Recording



Image: A person skiing with an action camera, highlighting the card's capability for 4K UHD recording in action cameras.

Capture Vivid Moments

4K UHD High Quality Videos



Image: A camera with the GIGASTONE Micro SD card and adapter, illustrating its use for capturing vivid moments and 4K UHD high-quality videos.

4.2. Application Performance (A2 Grade)

The A2 rating ensures faster app loading and smoother performance when used as expandable storage for smartphones and tablets. You can install and run applications directly from the Micro SD card, freeing up internal device storage.

4.3. Data Transfer

To transfer files to or from the card, insert it into a compatible card reader connected to your computer. Drag and drop files as you would with any other storage device. The high read/write speeds will facilitate quick transfers of large files.

Extend Compatibility

The one card to encourage expansions

The one digital world without limitations

The one Gigastone to explore extension and satisfaction



Image: Shows various GIGASTONE Micro SD card capacities and a camera, emphasizing extended compatibility across devices.

5. MAINTENANCE AND DURABILITY

Your GIGASTONE Micro SD card is built for durability and reliability. To ensure its longevity and protect your data, consider the following:

- **Physical Protection:** The card is designed to be X-ray proof, waterproof, shockproof, and temperature-proof. While robust, avoid unnecessary exposure to extreme physical stress or prolonged submersion in water.
- **Safe Removal:** Always safely eject the card from your device or computer before physically removing it to prevent data corruption.
- **Regular Backups:** Despite the card's reliability and data recovery warranty, regularly back up important data to another storage medium.

Secured Memory In Harsh Environment

Extreme temperature resistance
Waterproof Shockproof X-ray proof

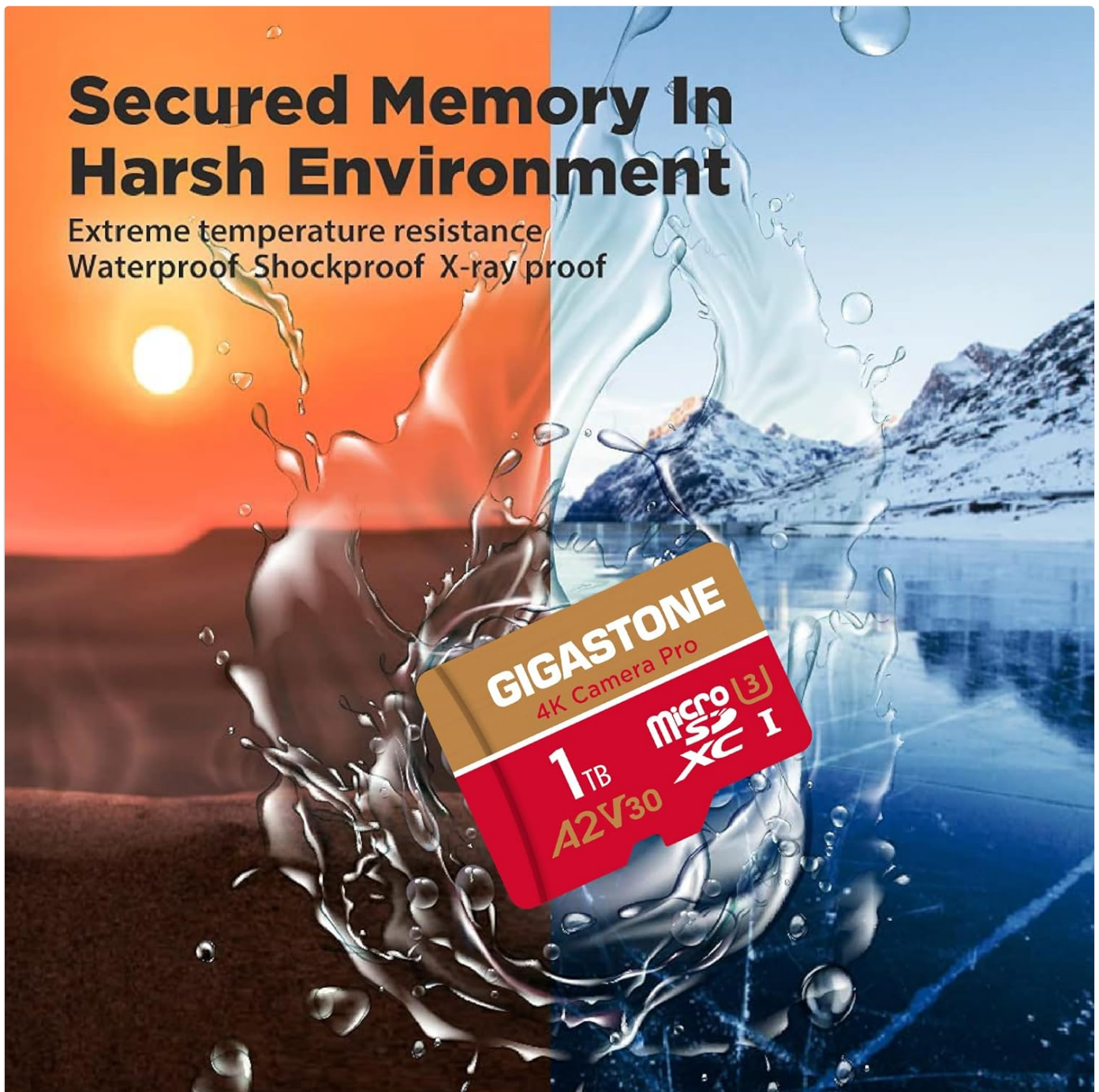


Image: Illustrates the card's durability in harsh environments, showing it resistant to extreme temperatures, water, shock, and X-rays.

6. TROUBLESHOOTING

If you encounter issues with your GIGASTONE Micro SD card, try the following steps:

- **Card Not Recognized:**

- Ensure the card is fully inserted into the device or card reader.
- Try the card in another compatible device or card reader to rule out a device issue.
- Check if your device supports the 1TB capacity and exFAT file system. If your device only supports FAT32, you may need to reformat the card (see Setup section).

- **Slow Performance / Lagging Video:**

- Ensure your device is compatible with UHS-I U3 and V30 speed classes.
- Verify that the card is not nearly full, as this can sometimes affect performance.

- Format the card (after backing up data) to refresh its performance.

- **Data Corruption:**

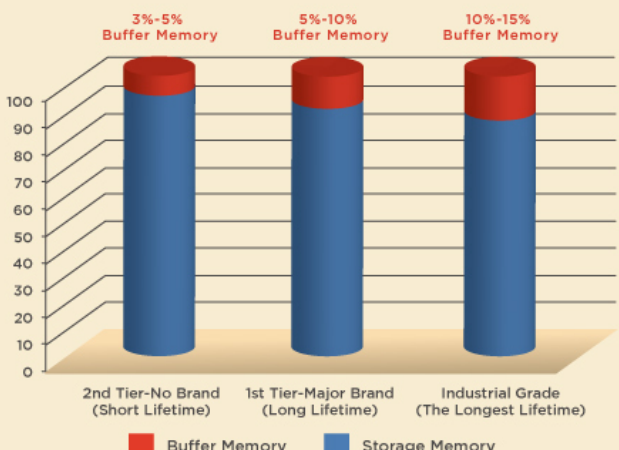
- Always safely eject the card before removal.
- If data becomes corrupted, refer to the Warranty and Support section for data recovery services.

How critical is buffer memory?

The bigger the buffer memory, the longer the lifetime.

*All micro SD cards need to reserve some buffer memory for firmware, application, and software, and the bigger the buffer memory, the longer the lifetime.

Therefore, there are some differences between marked capacity and actual capacity.



Examples :

- The usable capacity of 512GB micro SD card would be around 465GB to 476GB approximately.
- The usable capacity of 128GB micro SD card would be around 116GB to 119GB approximately.

GIGASTONE always try our best to provide the best quality memory cards for you!

Image: Explains the importance of buffer memory in Micro SD cards, showing how a larger buffer contributes to a longer lifetime and explaining the difference between marked and actual capacity.

7. TECHNICAL SPECIFICATIONS

Attribute	Detail
Brand	Gigastone
Model Name	MSD-1TB-4-1PK
Flash Memory Type	Micro SDXC
Memory Storage Capacity	1 TB
Read Speed	Up to 150 MB/s
Write Speed	Up to 130 MB/s
Speed Class	UHS-I U3, V30, A2, Class 10
Hardware Interface	microSDXC
Special Features	X-Ray Proof, Waterproof, Shockproof, Temperature-Proof
Compatible Devices	Dash Cam, Security Camera, GoPro, Drone, Camera, Smartphones, Tablets, PCs, Nintendo Switch
Item Weight	0.704 ounces
Country of Origin	Taiwan












 4K Camera Pro Micro SD card		 32 GB	 64 GB	 128 GB	 256 GB	 512 GB
 File system	FAT 32	exFAT	exFAT	exFAT	exFAT	exFAT
 Read Speed	95 MB/s	95 MB/s	100 MB/s	100 MB/s	100 MB/s	100 MB/s
 Music (6MB)	4,900	9,800	19,600	39,200	78,400	
 Full HD Photo (3.5MB)	8,400	16,800	33,600	67,200	134,400	
 Full HD VIDEO (1920*1080)	240	480	960	1,920	3,840	

Image: A detailed table showing specifications for various GIGASTONE 4K Camera Pro Micro SD card capacities, including file system, read speed, and estimated storage for music, photos, and videos.

8. WARRANTY AND SUPPORT

8.1. 5-Year Limited Warranty with Free Data Recovery

GIGASTONE provides a 5-year limited warranty for this Micro SD card, which includes a free data recovery service. This service is designed to help you retrieve valuable data in case of accidental deletion or card malfunction.

- **Eligibility:** This warranty and data recovery service applies to cards purchased from June 1st, 2021, onwards.
- **Data Recovery Success Rate:** The success rate of data recovery can vary depending on the extent of damage to the memory card. Files, pictures, and Full HD videos generally have a higher recovery success rate compared to 4K UHD videos, Nintendo Switch game files, or game records.



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5 Years
Free **Data Recovery** Warranty



Data Recovered rate of success

High	Middle	Low
File, Picture, Full HD Video	4K UHD Video, Nintendo switch game files, game records	

* Recovered degree depends on damaged level of memory cards

Image: Highlights the 5-year free data recovery warranty, showing a graph of data recovery success rates based on data type and damage level.

8.2. Contact Support

For warranty claims, data recovery requests, or any technical assistance, please visit the official Gigastone website or contact their customer support directly. Refer to the packaging or the official Gigastone website for the most current contact information.

You can also visit the [Gigastone Store on Amazon](#) for more information and product updates.