SONY

Digital Still Camera



DSC-S2000/S2100 Instruction Manual

Cyber-shot

English

Owner's Record

The model and serial numbers are located on the bottom. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. DSC-S2000/S2100

Serial No.

WARNING

To reduce fire or shock hazard, do not expose the unit to rain or moisture.

For Customers in the U.S.A.

UL is an internationally recognized safety organization.

The UL Mark on the product means it has been UL Listed.

If you have any questions about this product, you may call:

Sony Customer Information Center

1-800-222-SONY (7669)

The number below is for the FCC related matters only.

Regulatory Information

Declaration of Conformity

Trade Name: SONY

Model No.: DSC-S2000

Responsible Party: Sony Electronics Inc.

Address:16530 Via Esprillo, San Diego, CA 92127 U.S.A. Telephone No.: 858-942-2230

This device complies with Part15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Declaration of Conformity

Trade Name: SONY Model No.: DSC-S2100

Responsible Party: Sony Electronics Inc.

Address:16530 Via Esprillo, San Diego, CA 92127 U.S.A. Telephone No.: 858-942-2230

This device complies with Part15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

| CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The supplied interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

For Customers in Europe

Notice for the customers in the countries applying EU Directives

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

This product has been tested and found compliant with the limits set out in the EMC Directive for using connection cables shorter than 3 meters (9.8 feet).

Attention

The electromagnetic fields at the specific frequencies may influence the picture and sound of this unit.

Notice

If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc.) again.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product,

please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)



This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste. On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead. By ensuring these batteries are disposed of correctly, you will help prevent

potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources.

In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment.

For all other batteries, please view the section on how to remove the battery from the product safely.

Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

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Refer to "Cyber-shot Handbook" (PDF) on supplied CD-ROM

For details on advanced operations, please read "Cybershot Handbook" (PDF) on the CD-ROM (supplied) using a computer.



Refer to "Cyber-shot Handbook" for in-depth instructions on shooting or viewing images and connecting the camera to your computer or printer (page 19).

Checking the accessories supplied

- LR6 (size AA) alkaline batteries (2)
- Dedicated USB cable (1) (Sony Corporation 1-837-597-)
- Wrist strap (1)
- CD-ROM (1)
 - Cyber-shot application software
 - "Cyber-shot Handbook"
- Instruction Manual (this manual) (1)

Notes on using the camera

Changing the language setting

The screen language can be changed if necessary.

To change the language setting, press the MENU button, then select

Internal memory and memory card back up

Do not turn off the camera, remove the batteries, or remove the memory card while the access lamp is lit. Otherwise, the internal memory data or the memory card may be damaged. Be sure to make a backup copy to protect your data.

Notes on recording/playback

- To ensure stable operations of the memory card, we recommend that you use
 this camera to format any memory card being used with this camera for the
 first time. Note that formatting will erase all data recorded on the memory
 card. This data cannot be restored. Be sure to back-up any important data to a
 PC or other storage location.
- Before you start recording, make a trial recording to make sure that the camera is working correctly.
- The camera is neither dust-proof, nor splash-proof, nor water-proof. Read "Precautions" (page 23) before operating the camera.
- Avoid exposing the camera to water. If water enters inside the camera, a malfunction may occur. In some cases, the camera cannot be repaired.
- Do not aim the camera at the sun or other bright light. It may cause the malfunction of the camera.
- Do not use the camera near a location that generates strong radio waves or emits radiation. Otherwise, the camera may not properly record or play back images.
- Using the camera in sandy or dusty locations may cause malfunctions.
- If moisture condensation occurs, remove it before using the camera.
- Do not shake or strike the camera. It may cause a malfunction and you may not be able to record images. Furthermore, the recording media may become unusable or image data may be damaged.
- Clean the flash surface before use. The heat of flash emission may cause dirt
 on the flash surface to become discolored or to stick to the flash surface,
 resulting in insufficient light emission.

Notes on the LCD screen and lens

- The LCD screen is manufactured using extremely high-precision technology so over 99.99% of the pixels are operational for effective use. However, some tiny black and/or bright dots (white, red, blue or green) may appear on the LCD screen. These dots are a normal result of the manufacturing process, and do not affect the recording.
- When the battery level becomes low, the lens might stop moving. Insert new batteries or charged Nickel-Metal Hydride batteries and turn on the camera again.

On camera's temperature

Your camera and battery may get warm due to continuous use, but it is not a malfunction.

On image data compatibility

- The camera conforms with DCF (Design rule for Camera File system) universal standard established by JEITA (Japan Electronics and Information Technology Industries Association).
- Sony does not guarantee that the camera will play back images recorded or
 edited with other equipment, or that other equipment will play back images
 recorded with the camera.

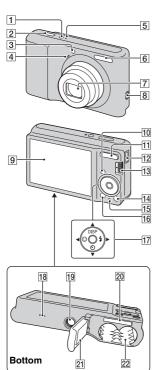
Warning on copyright

Television programs, films, videotapes, and other materials may be copyrighted. Unauthorized recording of such materials may be contrary to the provisions of the copyright laws.

No compensation for damaged content or recording failure

Sony cannot compensate for failure to record or loss or damage of recorded content due to a malfunction of the camera or recording media, etc.

Identifying parts



- 1 ON/OFF (Power) button
- 2 Shutter button
- 3 Self-timer lamp/Smile Shutter lamp
- 4 Microphone
 - 5 ON/OFF (Power) lamp
 - 6 Flash
 - 7 Lens
- 8 (USB) jack
- 9 LCD screen
- 10 (Playback) button
- To shooting: W/T (Zoom) button
 For viewing: Q (Playback
 - zoom) button/ (Index) button
- 12 Hook for wrist strap
- 13 Mode switch
- 14 面 (Delete) button
- 15 Access lamp
- 16 MENU button
- TO Control button

 MENU on: ▲/▼/◄/►/●

 MENU off: DISP/⑤/ⓒ/‡
- 18 Buzzer
- 19 Tripod receptacle
- Use a tripod with a screw less than 5.5 mm (7/32 inches) long. Otherwise, you cannot firmly secure the camera, and damage to the camera may occur.
- 20 Memory card slot
- 21 Battery/Memory card cover
- **22** Batteries insertion slot

Inserting the batteries/a memory card (sold separately)

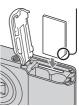
Open the cover.



2 Insert a memory card (sold separately).

With the notched corner down as illustrated, insert the memory card until it clicks into place.

Note the notched corner facing the correct direction



3 Match +/- and insert the batteries.



4 Close the cover.



■ Memory card that you can use

The following memory cards are compatible with this camera: "Memory Stick PRO Duo" media, "Memory Stick PRO-HG Duo" media, "Memory Stick Duo" media, SD memory card and SDHC memory card. MultiMediaCard cannot be used.

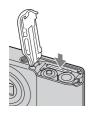
In this manual, the term "Memory Stick Duo" media is used to refer to "Memory Stick PRO Duo" media, "Memory Stick PRO-HG Duo" media and "Memory Stick Duo" media.

When recording movies, it is recommended that you use the following memory cards:

- MEMORY STICK PRO DUO ("Memory Stick PRO Duo" media)
- MEMORY STICK PRO-HG Duo ("Memory Stick PRO-HG Duo" media)
- SD memory card or SDHC memory card (Class 2 or faster)

For details on the number of images/time that can be recorded, see page 22.

■ To remove the memory card





Make sure that the access lamp is not lit, then push the memory card in once.

Note

 Never open the battery/memory card cover or remove the batteries/memory card when the access lamp is lit. This may cause damage to data in the memory card/ internal memory.

■ When there is no memory card inserted

Images are stored in the camera's internal memory (approximately 6 MB). To copy images from the internal memory to a memory card, insert a memory card in the camera, then select MENU $\rightarrow \bigoplus$ (Settings) $\rightarrow \bigoplus$ (Memory Card Tool) \rightarrow [Copy].

■ Batteries you can and cannot use with your camera

In the table below, \bigcirc indicates the battery can be used, while – indicates the one cannot be used.

Battery type	Supplied	Supported	Rechargeable
LR6 (size AA) alkaline batteries	0	0	-
HR 15/51:HR6 (size AA) Nickel- Metal Hydride batteries	-	0	0
ZR6 (size AA) Oxy Nickel Primary batteries	-	0	-
Lithium batteries*	-	-	-
Manganese batteries*	-	_	-
Ni-Cd batteries*	-	-	-

^{*} Operating performance cannot be ensured if voltage drops or other problems are caused by the nature of the battery.

■ To remove the batteries



Be sure not to drop the batteries.

Checking the remaining battery time

A remaining-charge indicator appears on the LCD screen.



Notes

- The remaining-charge indicator may not be correct under certain circumstances.
- When [Power Save] is set to [Standard] or [Stamina], if you do not operate the camera for a certain period of time while the power is on, the LCD screen becomes dark, then the camera turns off automatically (Auto power-off function).
- The supplied alkaline battery is for trial use only. You may need to purchase an additional battery for regular camera use.

Battery life and number of still images you can record/view

		Battery life (min.)	No. of Images		
DSC-S2100	Recording	Approx. 85	Approx. 170		
D3C-32100	Viewing	Approx. 370	Approx. 7400		
DSC-S2000	Recording	Approx. 95	Approx. 190		
D30-32000	Viewing	Approx. 540	Approx. 10800		

Notes

 The number of still images that can be recorded is based on the CIPA standard, and is for shooting under the following conditions.

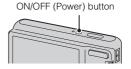
(CIPA: Camera & Imaging Products Association)

- [SteadyShot] is set to [Off].
- DISP (Screen Display Settings) is set to [Normal].
- Shooting once every 30 seconds.
- The zoom is switched alternately between the W and T ends.
- The flash strobes once every two times.
- The power turns on and off once every ten times.
- New batteries are used at an ambient temperature of 25°C (77°F).
- Using Sony "Memory Stick PRO Duo" media (sold separately).
- The values shown for alkaline battery are based on commercial norms, and do not apply to all alkaline batteries in all conditions. The values may vary, depending on the battery manufacturer/type, environmental conditions, product setting, etc.

Setting the clock

1 Press the ON/OFF (Power) button.

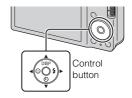
The camera is turned on.



2 Select a setting item with ▲/▼ on the control button, then press ●.

Date & Time Format: Selects the date and time display format.

Date & Time: Sets the date and time.

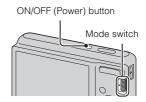


- 3 Set the numeric value with $\triangle/\nabla/\blacktriangleleft/\triangleright$, then press \blacksquare .
 - Midnight is indicated as 12:00 AM, and noon as 12:00 PM.
- 4 Select [OK], then press ●

Setting the date and time again

Press the MENU button, then select $\stackrel{\bullet}{\Longrightarrow}$ (Settings) \rightarrow 4 (Clock Settings).

Shooting still images

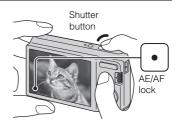


- 2 Hold the camera steady as illustrated.
 - Press the T button to zoom in, W button to zoom out.



3 Press the shutter button halfway down to focus.

When the image is in focus, a beep sounds and the ● indicator lights.

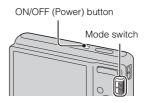


4 Press the shutter button fully down.



Shooting movies

1 Set the mode switch to 聞 (Movie), then press ON/OFF (Power) button.



2 Press the shutter button fully down to start recording.



3 Press the shutter button fully down again to stop recording.

Viewing images

1 Press the ► (Playback) button.

The last image shot is displayed.



Note

• You cannot listen to the audio with this camera when a movie is played back.

■ Selecting next/previous image

Select an image with ▶ (next)/◀ (previous) on the control button.

 Press
 in the center of the control button to view movies.

■ Deleting an image

- 1 Press (Delete) button.
- ② Select [This Image] with ▲ on the control button, then press

 .



Returning to shooting images

Press the shutter button halfway down.

■ Turning off the camera

Press ON/OFF (Power) button.

Learning more about the camera ("Cyber-shot Handbook")

"Cyber-shot Handbook", which explains how to use the camera in detail, is included on the CD-ROM (supplied). Refer to it for in-depth instructions on the many functions of the camera.

■ For Windows users

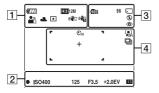
- 1 Turn on your computer, and insert the CD-ROM (supplied) into the CD-ROM drive.
- 2 Click [Cyber-shot Handbook].
- 3 Start "Cyber-shot Handbook" from the shortcut on the desktop.

■ For Macintosh users

- 1 Turn on your computer, and insert the CD-ROM (supplied) into the CD-ROM drive.
- 2 Select the [Handbook] folder and copy "Handbook.pdf" stored in the [GB] folder to your computer.
- 3 After copying is complete, double-click "Handbook.pdf".

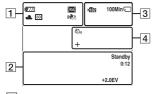
List of icons displayed on the screen

When shooting still images



• The icons are limited in **EASY** (Easy Mode).

When shooting movies



1

Display	Indication
4777	Battery remaining
	Low battery warning
4:3 12M 4:3 10M	Image size
& %	Scene Selection
i O	Camera mode (Intelligent Auto Adjustment, Program Auto, Movie Mode)
&	Scene Recognition icon
4	White balance
•	Metering Mode
	SteadyShot

Display	Indication
((4))	Vibration warning
	Smile Detection Sensitivity indicator
X1.4 sQ PQ	Zoom scaling

2

Display	Indication
•	AE/AF lock
ISO400	ISO number
125	Shutter speed
F3.5	Aperture value
+2.0EV	Exposure Value
[]	AF range finder frame indicator
Standby	Recording a movie/ Standby a movie
0:12	Recording time (m:s)

Display	Indication
102	Recording folder
96	Number of recordable images
100Min	Recordable time
·	Recording/Playback Media (memory card, internal memory)
③	Red-eye reduction
(\$)	Flash mode
4 •	Flash charging

Display	Indication
Ů 10	Self-timer
[●] FOFF	Face Detection
	Burst
г ¬	AF range finder frame
+	Spot metering cross- hairs

Number of still images and recordable time of movies

■ Still images

DSC-S2100

(Units: Images)

Capacity	Internal memory	Memory card formatted with this camera			ımera	
Size	Approx. 6 MB	2 GB	4 GB	8 GB	16 GB	32 GB
12M	1	395	790	1600	3200	6400
8M	1	580	1170	2350	4700	9400
5M	2	710	1420	2900	5850	11700
VGA	28	9650	19300	38600	77200	154400
16:9(9M)	1	533	1060	2150	4300	8600
16:9(2M)	5	1800	3700	7500	15000	30000

DSC-S2000

(Units: Images)

Capacity	Internal memory	Memory card formatted with this camera				
Size	Approx. 6 MB	2 GB	4 GB	8 GB	16 GB	32 GB
10M	1	470	940	1900	3800	7600
5M	2	710	1420	2900	5850	11700
VGA	28	9650	19300	38600	77200	154400
16:9(7M)	1	600	1200	2450	5000	10000
16:9(2M)	5	1800	3700	7500	15000	30000

Notes

- The number of still images may vary depending on the shooting conditions and the recording media.
- When the number of remaining shootable images is greater than 99,999, the ">99999" indicator appears.
- 6B When an image shot with other cameras is played back on this camera, the image may not appear in the actual image size.

Movies

The table below shows the approximate maximum recording times. These are the total times for all movie files.

(Units: hour: minute: second)

Capacity	Internal memory	Memory card formatted with this camera				
Size	Approx. 6 MB	2 GB	4 GB	8 GB	16 GB	32 GB
VGA	0:00:03	0:27:20	0:54:40	1:49:20	3:38:40	7:17:20
QVGA	0:00:10	1:23:40	2:45:00	5:35:00	11:18:00	22:36:00

Notes

- The recordable movie file size is up to approx. 2 GB for each file. If the file size reaches approx. 2 GB, the camera stops recording the movie automatically.
- The recording time may vary depending on the shooting conditions and the recording media.
- The camera does not support HD recordings or playbacks for movies.

Precautions

Do not use/store the camera in the following places

- In an extremely hot, cold or humid place
 In places such as in a car parked in the sun, the camera body may become deformed and this may cause a malfunction.
- Under direct sunlight or near a heater
 The camera body may become discolored or deformed, and this may cause a malfunction.
- · In a location subject to rocking vibration
- · Near strong magnetic place
- In sandy or dusty places

Be careful not to let sand or dust get into the camera. This may cause the camera to malfunction, and in some cases this malfunction cannot be repaired.

On carrying

Do not sit down in a chair or other place with the camera in the back pocket of your trousers or skirt, as this may cause malfunction or damage the camera.

On the battery

- Avoid rough handling, disassembling, modifying, physical shock, or impact such as hammering, dropping or stepping on the battery.
- · Do not use a deformed or damaged battery.
- Do not mix a used battery together with a new battery or different types of batteries.
- Remove the batteries from the camera when you do not operate the camera for long periods, or when the batteries are dead.

On cleaning

Cleaning the LCD screen

Wipe the screen surface with an LCD cleaning kit (sold separately) to remove fingerprints, dust, etc.

Cleaning the lens

Wipe the lens with a soft cloth to remove fingerprints, dust, etc.

Cleaning the camera surface

Clean the camera surface with a soft cloth slightly moistened with water, then wipe the surface with a dry cloth. To prevent damage to the finish or casing:

- Do not expose the camera to chemical products such as thinner, benzine, alcohol, disposable cloths, insect repellent, sunscreen or insecticide.
- Do not touch the camera with any of the above on your hand.
- Do not leave the camera in contact with rubber or vinyl for a long time.

On operating temperatures

Your camera is designed for use under the temperatures between 0°C and 40°C (32°F and 104°F). Shooting in extremely cold or hot places that exceed this range is not recommended

On the internal rechargeable backup battery

This camera has an internal rechargeable battery for maintaining the date and time and other settings regardless of whether the power is on or off.

This rechargeable battery is continually charged as long as you are using the camera. However, if you use the camera for only short periods, it discharges gradually, and if you do not use the camera at all for about one month it becomes completely discharged. In this case, be sure to charge this rechargeable battery before using the camera.

However, even if this rechargeable battery is not charged, you can still use the camera, but the date and time will not be indicated.

Charging method of the internal rechargeable backup battery

Insert batteries with enough power remaining in the camera, and then leave the camera for 24 hours or more with the power off.

Specifications

Camera

[System]

Image device:

DSC-S2100: 7.79 mm (1/2.3 type) R, G, B primary color mosaic

filters

DSC-S2000: 7.70 mm (1/2.3 type) R, G, B primary color mosaic

filters

Total pixel number of camera:

DSC-S2100: Approx.

12.4 Megapixels DSC-S2000: Approx.

10.3 Megapixels

Effective pixel number of camera:

DSC-S2100: Approx.

12.1 Megapixels

DSC-S2000: Approx.

10.1 Megapixels

Lens: 3× zoom lens

f = 6.2 mm - 18.6 mm (35 mm - 105 mm (35 mm film equivalent)) F3.1 (W) - F5.6 (T)

Exposure control: Automatic exposure,

Scene Selection (8 modes)
White balance: Automatic, Daylight,
Cloudy, Fluorescent 1/2/3.

Incandescent, Flash

Recording interval for Burst mode: Approx. 1 second File format:

Still images: JPEG (DCF Ver. 2.0, Exif Ver. 2.21, MPF Baseline) compliant, DPOF compatible

Movies: AVI (Motion JPEG) Recording media: Internal Memory (approx. 6 MB), "Memory Stick Duo" media, SD memory card, SDHC memory card

Flash: Flash range (ISO sensitivity (Recommended exposure Index) set to Auto):

Approx. 0.5 m to 3.3 m (1 feet 7 3/4 inches to 10 feet 10 inches) (W)/

approx. 0.5 m to 1.8 m (1 feet 7 3/4 inches to 5 feet 10 7/8 inches) (T)

[Input and Output connectors]

USB communication: Hi-Speed USB (USB 2.0 compliant)

[LCD screen]

LCD panel:

DSC-S2100: 7.5 cm (3.0 type) DSC-S2000: 6.2 cm (2.5 type)

TFT drive

Total number of dots: 230 400 (960 × 240) dots

[Power, general]

Power: LR6 (size AA) Alkaline batteries (2), 3 V HR15/51:HR6 (size AA) Nickel-Metal Hydride batteries (2) (sold separately), 2.4 V ZR6 (size AA) Oxy Nickel Primary

Battery (2) (sold separately), 3 V Power consumption (during shooting):

1.0 W
Operating temperature: 0°C to 40°C

(32°F to 104°F) Storage temperature: -20°C to +60°C (-4°F to +140°F)

Dimensions: $97.6 \times 61.0 \times 27.2 \text{ mm}$ (3 7/8 × 2 1/2 × 1 1/8 inches) (W/H/D, excluding protrusions)

Mass:

DSC-S2100: Approx. 184 g (6.5 oz)
DSC-S2000: Approx. 173 g (6.1 oz) (including two batteries and memory card)

Microphone: Monaural Buzzer

Exif Print: Compatible

PRINT Image Matching III: Compatible

PictBridge: Compatible

Design and specifications are subject to change without notice.

Trademarks

• The following marks are trademarks of Sony Corporation.

Cyber-shot, "Cyber-shot,"
"Memory Stick," , "Memory
Stick PRO," MEMDRY 5TICK PRO,
"Memory Stick Duo,"
MEMORY 5TICK PRO,
"Memory STICK PRO,"

MEMORY STICK DUD, "Memory Stick PRO Duo,"

MEMORY STICK PRO DUO, "Memory Stick PRO-HG Duo,"

MEMORY STICK PRO-HG Duo, "Memory Stick Micro," "MagicGate,"

MAGICGATE

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