



DataOverwriteSecurity Unit Type J

DataOverwriteSecurity Unit Type K

Operating Instructions

Introduction

This manual contains detailed instructions and notes on the operation and use of this product. For your safety and benefit, read this manual carefully before using the product. Keep this manual in a handy place for quick reference.

Important

Contents of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

Conditions for Use

To function effectively, this option requires the following conditions.

Operating Environment

- The machine is operating normally and is not damaged, modified, or lacking components.
- The machine is managed by an administrator who has carefully read and understood the manual for this option, and can ensure its safe and effective usage by general users.

Note

- Customer engineers dispatched from the supplier or its affiliated companies are trained in the maintenance of this option.

Precautions When Using the DataOverwriteSecurity Unit

The procedures in this manual should be performed by the machine administrator. For details, see *Security Guide* or *Note to Administrator*.

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| <ul style="list-style-type: none">• If Data Erase Status is not displayed, first check the optional DataOverwriteSecurity Unit is installed. If the optional DataOverwriteSecurity Unit is installed but Data Erase Status still does not appear, contact your service representative. ^{*1}• If you turn off the machine's main power switch before overwriting is completed, temporary data will remain on the hard disk until the main power switch is next turned on and overwriting is resumed. |
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^{*1} For details on the Memory Erase Status, see p.7 "Memory Erase Status".

- If the printer enters Energy Saver mode when overwriting is in progress, press the any key to revive the display in order to check the **[Memory Erase Status]** menu.
- If Memory Erase Status shows "Data to erase remaining." even after you have checked there is no temporary data, turn off the machine's main power switch. Wait a few moments, turn it back on, and then check if Memory Erase Status shows "Currently no data to erase.". If it does not, contact your sales or service representative.

Deleting Data on the Hard Disk

To use this function, the optional DataOverwriteSecurity Unit must be installed. To prevent data on the hard disk being leaked before disposing of the printer, you can overwrite all data stored on the hard disk. You can also automatically overwrite temporarily-stored data.

❖ Auto Erase Memory Setting

To erase selected data on the hard disk, specify **[Auto Erase Memory Setting]**.

❖ Erase All Memory

To erase all the data on the hard disk, using **[Erase All Memory]**.

❖ Methods of Erasing the Data

You can select the method of erasing the data from the following:
The default is “Random Numbers”.

NSA *1	Overwrites the data on the hard disk twice with random numbers and once with zeros.
DoD *2	Overwrites the data with a number, its complement, and random numbers, and then checks the result.
Random Numbers	Overwrites the data with random numbers the specified number of times. You can specify between 1 and 9 as the number of times the data is overwritten with random numbers. The default is 3 times.

*1 National Security Agency

*2 Department of Defense

Note

- Depending on the hard disk capacity and the method of erasing the data, this action may take a few hours.
- Once you start the Erase All Memory function, no other printer operation is possible until the function completes or you quit the function.
- The printer’s hard disk lets you store data under the printer.

Auto Erase Memory Setting

This can be specified by the machine administrator.

A print data sent from a printer driver is temporarily stored on the printer's hard disk. Even after the job is completed, it remains in the hard disk as temporary data. Auto Erase Memory erases the temporary data on the hard disk by writing over it.

Overwriting starts automatically once the job is completed.

The Printer functions take priority over the Auto Erase Memory function. If a print job is in progress, overwriting will only be done after the job is completed.

Important

- When Auto Erase Memory is set to **[On]**, temporary data that remained on the hard disk when Auto Erase Memory was **[Off]** might not be overwritten.
- If the power is turned off before Auto Erase Memory is completed, overwriting will stop and data will be left on the hard disk.
- Do not stop the overwrite mid-process. Doing so will damage the hard disk.
- Should the main power switch be turned off before Auto Erase Memory is completed, overwriting will continue once the main power switch is turned back to on.
- If you specify encryption and hard disk overwrite erasure at the same time, both functions will be complete in about four hours (based on three overwrites with random numbers).

1 Press the **[Menu]** key.

2 Select **[Security Options]** using the **[▲]** or **[▼]** key, and then press the **[OK]** key.

3 Select **[Auto Erase Memory Setting]** using the **[▲]** or **[▼]** key, and then press the **[OK]** key.

4 Select **[On]** using the **[▲]** or **[▼]** key, and then press **[HD Erase]**.

Select the method of erasing the data from **[NSA]**, **[DoD]**, or **[Random Numbers]**.

If you select **[Random Numbers]**, proceed to step **5**.

If you select **[NSA]** proceed to step **7**.

If you select **[DoD]**, proceed to step **8**.

5 Select **[Random Numbers]** using the **[▲]** or **[▼]** key, and then press the **[OK]** key.

6 Enter the number of times that you want to overwrite using the **[▲]** or **[▼]** keys, and then press the **[OK]** key.

Auto Erase Memory is set.

7 Select **[NSA]** using the **[▲]** or **[▼]** key, and then press the **[OK]** key.

Auto Erase Memory is set.

8 Select **[DoD]** using the **[▲]** or **[▼]** key, and then press the **[OK]** key.

Auto Erase Memory is set.

Canceling Auto Erase Memory

1 Follow steps **1** to **3** in “Auto Erase Memory Setting”.

2 Select [Off] using the [▲] or [▼] key, and then press the [OK] key.

Auto Erase Memory is disabled.

 **Note**

To set Auto Erase Memory to [On] again, repeat the procedure in “Auto Erase Memory Setting”.

Types of Data that Can or Cannot Be Overwritten

The following table shows the types of data that can or cannot be overwritten by Auto Erase Memory.

Data overwritten by Auto Erase Memory	<ul style="list-style-type: none">• Print Jobs• Sample Print/Locked Print/Hold Print/Stored Print Jobs *¹• Spool Printing jobs• PDF Direct Print data
Data not overwritten by Auto Erase Memory	Counters stored under each user code
	Image overlay data * ²

*¹ A Sample Print, Locked Print, or Hold Print job can only be overwritten after it has been executed. Stored print jobs can be overwritten by Auto Erase Memory only if they have been deleted in advance.

*² Image overlay data can be overwritten by Auto Erase Memory only if it is deleted in advance.

Erase All Memory

This can be specified by the machine administrator.

You can erase all the data on the hard disk by writing over it. This is useful if you relocate or dispose of your printer.

Important

- If you select Erase All Memory, the following are also deleted: user codes, counters under each user code, user stamps, printer fonts downloaded by users, applications using Embedded Software Architecture, SSL server certificates, and the printer's network settings.
- Should the power switch of the printer be turned off before Erase All Memory is completed, overwriting is canceled.
- Make sure the power switch is not turned off during overwriting.

1 Disconnect communication cables connected to the printer.

2 Press the [Menu] key.

3 Select [Security Options] using the [▲] or [▼] key, and then press the [OK] key.

4 Select [Erase All Memory] using the [▲] or [▼] key, and then press the [OK] key.

5 Select the method of erasing the data.

Select the method of erasing the data from [NSA], [DoD], or [Random Numbers].

If you select [Random Numbers], proceed to step **6**.

If you select [NSA] proceed to step **8**.

If you select [DoD], proceed to step **9**.

6 Select [Random Numbers] using the [▲] or [▼] key, and then press the [OK] key.

7 Enter the number of times that you want to overwrite using the [▲] or [▼] key, and then press the [OK] key.

8 Select [NSA] using the [▲] or [▼] key, and then press the [OK] key.

9 Select [DoD] using the [▲] or [▼] key, and then press the [OK] key.

10 When overwriting is completed, press [Exit], and then turn off the power.

 **Note**

- Before erasing the hard disk, you can back up user codes, and counters for each user code data using SmartDeviceMonitor for Admin. For details, see SmartDeviceMonitor for Admin Help.
- If the power is turned off when Erase All Memory is in progress, overwriting will start again when you next turn on the power.
- If an error occurs before overwriting is completed, turn off the main power. Turn it on again, and then repeat from the start of the procedure.
- When erasing the entire contents of memory, the erasure can only be paused. No other operations can be performed on this machine. The machine takes about three hours to overwrite the hard disk three times with random numbers.

 **Reference**

For details about logging on and logging off with administrator authentication, see *Security Guide*.

Suspending Erase All Memory

The overwriting process can be suspended temporarily.

 **Important**

- Erase All Memory cannot be cancelled.

1 Press [**Suspend**] while Erase All Memory is in progress.

2 Press [**Yes**].

Overwriting is suspended.

3 Turn off the power.

 **Note**

- To resume overwriting, turn on the main power.

Memory Erase Status

Displays the status of data inside the memory.

- ❖ **Data to erase remaining.**
There is data remaining in memory.
- ❖ **Currently no data to erase.**
There is no data in memory.
- ❖ **Erasing data...**
The data is being deleted.

The following procedure explains how to check Data Erase Status.

- 1** Press the [Menu] key.
- 2** Select [Memory Erase Status] using the [▲] or [▼] key, and then press the [OK] key.
- 3** Displays the Memory Erase Status.

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