

# 1:15 Standalone USB Duplicator and Eraser

USBDUPE115



\*actual product may vary from photos

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For the latest information, technical specifications, and support for this product, please visit [www.StarTech.com/USBDUPE115](http://www.StarTech.com/USBDUPE115).

## FCC Compliance Statement

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

This device complies with part 15 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.

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## Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003.

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CAN ICES-3 (B)/NMB-3(B)

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# Product diagram

## Top view



- ① LCD display
- ② UP button
- ③ DOWN button
- ④ OK button
- ⑤ ESC button
- ⑥ Source USB flash drive port
- ⑦ Source USB flash drive LED indicators
- ⑧ Destination USB flash drive port
- ⑨ Destination USB flash drive LED indicators

## Back view



- ⑩ Power switch
- ⑪ Power adapter port

# Package contents

- 1 x duplicator and eraser
- 1 x universal power adapter (NA/JP, UK, EU, ANZ)
- 1 x quick-start guide

# Requirements

- 1 source USB flash drive
- 1 to 15 destination USB flash drives

To connect an SD, an SDHC, a microSD, a miniSD, an MMC, or a CF card, you require a USB multimedia card reader for each of the USB flash drive ports.

Requirements are subject to change. For the latest requirements, please visit [www.StarTech.com/USBDUPE115](http://www.StarTech.com/USBDUPE115).

# About the LED indicators

Each of the 16 USB flash drive ports feature a detection/activity LED and an error LED.

LED behavior	Significance
Green LED is blinking	Command is being executed <b>Warning!</b> Do not remove the USB flash drive when the green LED is blinking.
Green LED is illuminated	USB flash drive is detected OR Process is complete
Red LED is illuminated	An error occurred For more information, see the LCD display.

# Set up the duplicator and eraser

1. Connect the universal power adapter to the Power adapter port on the duplicator and eraser and to a power source.
2. Use the Power switch to turn on the duplicator and eraser.
3. Press the UP and DOWN buttons to navigate the menu and highlight selections.
4. Press the OK button to make selections.
5. To exit a menu selection, press the ESC button.

For more information about the features and functions of the duplicator and eraser, see the applicable sections of the manual.

## Changing the device settings

In the **Setup** menu, you can change the settings of the duplicator and eraser, including the button sound, display language, and so on.

### Change the startup function

You can select the function that is displayed when you turn on the duplicator and eraser. By default, the copy function is displayed when you turn on the device.

1. Highlight **Setup** and press the OK button.
2. Highlight **Start-up Menu** and press the OK button.
3. Highlight the function that you want displayed when you turn on the duplicator and eraser, and press the OK button.

### Turn off the audio feedback feature

By default, the audio feedback feature is enabled.

1. Highlight **Setup** and press the OK button.
2. Highlight **Button Sound** and press the OK button.
3. Highlight **OFF** and press the OK button.

## Change the LCD display language

1. Highlight **Setup** and press the OK button.
2. Highlight **Language** and press the OK button.
3. Highlight **English** or **Japanese** and press the OK button.

## Restore the default factory settings

1. Highlight **Setup** and press the OK button.
2. Highlight **Set to Default** and press the OK button.
3. When the confirmation message appears, press the OK button.

## Copying USB flash drive data

Each USB flash drive port on the duplicator and eraser has an independent control processing unit and supports asynchronous and synchronous copying.

## Change the copy area

You can set the duplicator and eraser to copy the system and files or all of the data on the USB flash drives.

### System and Files

If you select **System and Files** as the copy area, the system analyzes the file format of the source USB flash drive and if the format is recognizable (for example, FAT16, FAT32, NTFS, Linux ext. 2, and so on), the system will only copy the data and not the entire USB flash drive. If the system doesn't recognize the file format, it will copy the entire storage capacity of the source USB flash drive, including any empty space. This type of copy is also known as "quick copy."

### Whole Media

If you select **Whole Media** as the copy area, the system copies the entire source USB flash drive, including files and empty space. This option is useful if you're copying the entire source USB flash drive or if you don't know the format of the USB flash drive. Copying the whole media area of a source USB flash drive takes longer to complete than copying the system and files area.

By default, **System and Files** is set as the copy area.



1. Highlight **Setup** and press the OK button.
2. Highlight **Copy Area** and press the OK button.
3. Do one of the following:
  - Highlight **System and Files** and press the OK button.
  - Highlight **Whole Media** and press the OK button.

## Check the flash drive capacity

If a USB flash drive passes the capacity check, the green LED indicator next to the USB flash drive port illuminates. If a USB flash drive fails the capacity check, the red LED indicator next to the USB flash drive port illuminates.

1. Use the Power switch to turn on the duplicator and eraser.
2. Insert USB flash drives in any of the USB flash drive ports.
3. Highlight **Capacity Check** and press the OK button.
4. To view the capacity of the USB flash drives, use the UP and DOWN arrows to navigate through the list of USB flash drive ports.

**Tip!** This feature supports asynchronous operation, which means that the system checks each USB flash drive separately. You can remove a USB flash drive after it has been checked and insert a different USB flash drive and the check will continue.

## Set the target tolerance

You can set the capacity tolerance range between the source USB flash drive and the target USB flash drive, and if the capacity of the USB flash drive is outside of the tolerance range, the data won't be copied. For example, if you set the target tolerance to  $\pm 1\%$  and the source USB flash drive is 2GB and the destination USB flash drive is 2.02GB, the data won't be copied to the destination USB flash drive.

By default, the target tolerance is set to **No Limit**.

1. Highlight **Setup** and press the OK button.
  2. Highlight **Target Tolerance** and press the OK button.
  3. Do one of the following:
    - To disable the capacity tolerance range, highlight **No Limit** and press the OK button.
- Caution!** If the amount of data on the source USB flash drive is larger than the

data capacity of the destination USB flash drive and there is no limit to the capacity tolerance range, the copying process will fail or be incomplete.

- To set the data capacity of the destination USB flash drive to be the exact same as the source USB flash drive, highlight **100% Same** and press the OK button. **Caution!** If the data capacities of the source USB flash drive and destination USB flash drive aren't equal, the copying process won't begin.
- To set the high and low range of the capacity tolerance range between the source USB flash drive and the destination USB flash drive, highlight **Allow Tolerance** and press the OK button. To set the maximum capacity difference, highlight **No Limit** or a numeric value between 0 and 50%, and press the OK button. To set the minimum capacity difference, highlight **No Limit** or a numeric value between 0 and 50%, and press the OK button.

## Change the copying speed

For most types of USB flash drives, you should set the copy speed to **Normal**.

1. Highlight **Setup** and press the OK button.
2. Highlight **Working Mode** and press the OK button.
3. Highlight one of the following and press the OK button:
  - **Fastest Mode**
  - **Faster Mode**
  - **Normal Mode**
  - **Slower Mode**
  - **Slowest Mode**

**Tip!** If you're experiencing a high failure rate when you're copying USB flash drives, try using a slower copying speed.

## Change the time between copy and compare

By default, the duplicator and eraser is set to wait 3 seconds after a copy process completes before beginning the compare process.

1. Highlight **Setup** and press the OK button.
2. Highlight **Power Off Time Between Copy&Compare** and press the OK button.
3. Highlight a numeric value between 0 and 15 and press the OK button.

## Set the device to automatically check the USB flash drive

By default, the duplicator and eraser doesn't check the USB flash drive before it begins to copy it.

1. Highlight **Setup** and press the OK button.
2. Highlight **Check Before Copy** and press the OK button.
3. Highlight **Do Check** and press the OK button.

## Complete a synchronous copy

When you complete a synchronous copy, all of the connected USB flash drives are copied or compared simultaneously. You can't remove any of the connected USB flash drives until the process is complete.

**Note:** If the data size of the source USB flash drive is larger than the buffer memory of the system, the device will complete a synchronous copy even if the asynchronous copy feature is enabled.

**Caution!** To avoid any copying errors, the source USB flash drive should be larger than or the same size as the destination USB flash drive.

1. Use the Power switch to turn on the duplicator and eraser.
2. If the asynchronous copy feature is enabled, disable the feature. For more information about how to do this, see the "Disable the asynchronous feature" section of the manual.
3. If necessary, change any of the copying settings (for example, copy area, copy speed, target tolerance, and so on).
4. Insert the source USB flash drive into the Source USB flash drive port.
5. Insert up to 15 destination USB flash drives into the Destination USB flash drive ports.
6. Highlight **Copy** and press the OK button.
7. If a confirmation message appears, press the OK button.

**Warning!** If the green LED indicator is blinking, do not remove the USB flash drive. If you do so, you will interrupt the copying process and you could experience lost or corrupted data as a result.

## Complete an asynchronous copy

When you complete an asynchronous copy, the USB flash drives are copied or compared independently, one at a time. When the green LED indicator next to a USB flash drive stops blinking, you can remove the USB flash drive even if the other USB flash drives are not done being copied or compared.

**Note:** If the data size of the source USB flash drive is larger than the system's buffer memory, the system will automatically copy in synchronous mode.

**Caution!** To avoid any copying errors, the source USB flash drive should be larger than or the same size as the destination USB flash drive.

1. Use the Power switch to turn on the duplicator and eraser.
2. If necessary, change any of the copying settings (for example, copy area, copy speed, target tolerance, and so on).
3. Insert the source USB flash drive into the Source USB flash drive port.
4. Insert up to 15 destination USB flash drives into the Destination USB flash drive ports.
5. Highlight **Copy** and press the OK button.
6. If a confirmation message appears, press the OK button.
7. When the green LED indicator stops blinking, you can remove the destination USB flash drive and insert another USB flash drive and the process will continue.
8. To check the copy status and progress for each of the USB flash drives, use the UP and DOWN buttons to move through the USB flash drive ports.

**Warning!** If the green LED indicator is blinking, do not remove the USB flash drive. If you do so, you will interrupt the copying process and you could experience lost or corrupted data as a result.

## Interrupt the copying process

1. To stop the copying process while it's in progress, do one of the following:
  - To stop copying data to the slowest USB flash drive port, press and hold the UP and DOWN buttons for 5 seconds.
  - To stop copying data to all of the USB flash drive ports, press and hold the ESC button for 5 seconds.

## Disable the asynchronous feature

By default, the asynchronous feature is enabled.

1. Highlight **Setup** and press the OK button.
2. Highlight **Asynchronous** and press the OK button.
3. Highlight **Disable** and press the OK button.

## Copy to an HDD or SSD

1. Connect a USB to SATA hard drive docking station or a USB to SATA drive enclosure to the duplicator and eraser.
2. Use the Power switch to turn on the duplicator and eraser.
3. Use the UP and DOWN buttons to navigate the device menu, highlight **Setup**, and press the OK button.
4. Highlight **Set HDD Mode** and press the OK button.
5. Highlight **Active** and press the OK button.

## Compare USB flash drives

After you copy USB flash drives, you can use the compare feature to make sure that the data was copied successfully.

1. When the copying process is complete, highlight **Compare** and press the OK button.
2. Use the UP and DOWN buttons to navigate through the USB flash drive ports.

## Copy and compare USB flash drives

For increased efficiency, you can set the duplicator and eraser to automatically compare the USB flash drives after the copying process is complete.

1. Highlight **Copy+Compare** and press the OK button.
2. Use the UP and DOWN buttons to navigate through the USB flash drive ports.

# Formatting a USB flash drive

**Warning!** When you format a USB flash drive, all of the data on your USB flash drive will be deleted. If your USB flash drive has data on it that you require, you should create a backup file or use a different USB flash drive.

## Auto format a USB flash drive

When you auto format a USB flash drive, the system determines the capacity of the USB flash drive and formats it accordingly.

Consult the table below for more information about the format that the USB flash drive will be formatted to.

Original format	After auto formatting
FAT16	No change to format
FAT32	No change to format
NTFS, Linux, multi-partition FAT equal to or greater than 2GB	FAT32
NTFS, Linux, multi-partition FAT less than 2GB	FAT16

1. Use the Power switch to turn on the duplicator and eraser.
2. To auto format a USB flash drive, insert up to 15 USB flash drives into the Destination USB flash drive ports.
3. Highlight **Utility** and press the OK button.
4. Highlight **Do Format** and press the OK button.
5. Highlight **Auto Format** and press the OK button.
6. When the confirmation message appears, press the OK button.
7. To check the formatting status, progress, and information about the USB flash drives, use the UP and DOWN arrows to navigate through the USB flash drive ports.

## Format a USB flash drive to FAT16

1. Use the Power switch to turn on the duplicator and eraser.
2. Insert USB flash drives into the USB flash drive ports.

3. Highlight **Utility** and press the OK button.
4. Highlight **Do Format** and press the OK button.
5. Highlight **FAT16 Format** and press the OK button.
6. When the confirmation message appears, press the OK button.
7. To check the formatting status, progress, and information about the USB flash drives, use the UP and DOWN arrows to navigate through the USB flash drive ports.

## Format a USB flash drive to FAT32

1. Use the Power switch to turn on the duplicator and eraser.
2. Insert USB flash drives into the USB flash drive ports.
3. Highlight **Utility** and press the OK button.
4. Highlight **Do Format** and press the OK button.
5. Highlight **FAT32 Format** and press the OK button.
6. When the confirmation message appears, press the OK button.
7. To check the formatting status, progress, and information about the USB flash drives, use the UP and DOWN arrows to navigate through the USB flash drive ports.

## Set the FAT16 cluster size

1. Use the Power switch to turn on the duplicator and eraser.
2. Insert USB flash drives into the USB flash drive ports.
3. Highlight **Utility** and press the OK button.
4. Highlight **Do Format** and press the OK button.
5. Highlight **Set FAT16 Cluster Size** and press the OK button.
6. Highlight any of the following and press the OK button:
  - **Auto**
  - **4KB**
  - **8KB**
  - **16KB**
  - **32KB**
  - **64KB**

## Set the FAT32 cluster size

1. Use the Power switch to turn on the duplicator and eraser.
2. Insert USB flash drives into the USB flash drive ports.
3. Highlight **Utility** and press the OK button.
4. Highlight **Do Format** and press the OK button.
5. Highlight **Set FAT16 Cluster Size** and press the OK button.
6. Highlight any of the following and press the OK button:
  - **Auto**
  - **4KB**
  - **8KB**
  - **16KB**
  - **32KB**
  - **64KB**

## Erasing USB flash drives

The duplicator and eraser features three different types of erasing: quick erase, full erase, and DoD erase.

### Perform a quick erase

When you perform a quick erase, the entire contents of the USB flash drive are erased and the USB flash drive is left unformatted. This type of erase process is the fastest.

**Warning!** When you complete the following steps, all of the data on your USB flash drive is deleted. If your USB flash drive has data on it that you require, you should create a backup file or use a different USB flash drive.

1. Use the Power switch to turn on the duplicator and eraser.
2. Insert USB flash drives into any of the USB flash drive ports.
3. Highlight **Utility** and press the OK button.
4. Highlight **Quick Erase** and press the OK button.
5. When the confirmation message appears, press the OK button.

**Tip!** To check the status of the erase process, use the UP and DOWN buttons to move through the list of the USB flash drive ports.



## Perform a full erase

When you perform a full erase, the system completes a single-pass overwrite and erases the entire contents and format of the USB flash drive. This type of erase process can take longer to complete than the quick erase process.

**Warning!** When you complete the following steps, all of the data on your USB flash drive is deleted. If your USB flash drive has data on it that you require, you should create a backup file or use a different USB flash drive.

1. Use the Power switch to turn on the duplicator and eraser.
2. Insert USB flash drives into any of the USB flash drive ports.
3. Highlight **Utility** and press the OK button.
4. Highlight **Full Erase** and press the OK button.
5. When the confirmation message appears, press the OK button.

**Tip!** To check the status of the erase process, use the UP and DOWN buttons to move through the list of the USB flash drive ports.

## Perform a DoD erase

When you perform a DoD erase, the system completes a three-pass overwrite and erases the entire contents and format of the USB flash drive. This type of erase process can take longer to complete than the quick erase and full erase processes.

**Warning!** When you complete the following steps, all of the data on your USB flash drive will be deleted. If your USB flash drive has data on it that you require, you should create a backup file or use a different USB flash drive.

1. Use the Power switch to turn on the duplicator and eraser.
2. Insert USB flash drives into any of the USB flash drive ports.
3. Highlight **Utility** and press the OK button.
4. Highlight **DoD Erase** and press the OK button.
5. When the confirmation message appears, press the OK button.

**Tip!** To check the status of the erase process, use the UP and DOWN buttons to move through the list of the USB flash drive ports.

# Update the system firmware

1. Save the firmware update onto a USB flash drive that is formatted to FAT32.

**Note:** Make sure that the firmware update file is unzipped and not in a folder.

2. Use the Power switch to turn on the duplicator and eraser.

3. Insert the USB flash drive into one of the USB flash drive ports.

4. Highlight **Utility** and press the OK button.

5. Highlight **System Update** and press the OK button.

6. When the confirmation message appears, press the OK button.

7. When the firmware update is complete, move the Power switch to the off position.

8. Wait a couple of minutes and then turn on the duplicator and eraser again.

# Calculate the checksum number

You can calculate the checksum number of the source USB flash drive. The checksum area that is calculated is based on the copy area that is set.

1. Use the Power switch to turn on the duplicator and eraser.

2. Insert a USB flash drive into the Source USB flash drive port.

3. Highlight **Utility** and press the OK button.

4. Highlight **Calc. Checksum** and press the OK button.

When the calculation is complete, the checksum is displayed on the LCD display.

# Measure read and write speeds

You can measure the read and write speeds of the destination USB flash drives.

1. Use the Power switch to turn on the duplicator and eraser.

2. Insert up to 15 USB flash drives into the Destination USB flash drive ports.

3. Highlight **Utility** and press the OK button.

4. Highlight **Measure Speed** and press the OK button.

5. To view the read and write speeds for each of the USB flash drives, use the UP and DOWN buttons to move through the list of the USB flash drive ports.

# Analyzing the quality of a USB flash drive

You can use the media check feature on the duplicator and eraser to check the quality of a USB flash drive. You can also change the range and error limit of the Media Check feature.

## Perform a media check

There are three types of media checks that you can perform: H3 Safe, H5 RW, and H6 SafeRW. When you select the H3 Safe media check, the system reads the USB flash drive to assess its quality. When you select the H5 RW or H6 SafeRW, the system reads and writes to the USB flash drive to assess its quality.

**Warning!** When you complete the following steps, some or all of the data on your USB flash drive might be deleted. If your USB flash drive has data on it that you require, you should create a backup file or use a different USB flash drive.

1. Use the Power switch to turn on the duplicator and eraser.
2. Insert up to 15 USB flash drives into the Destination USB flash drive ports.
3. Highlight **Utility** and press the OK button.
4. Highlight **Media Check** and press the OK button.
5. Do one of the following:
  - Highlight **H3 Safe** and press the OK button.
  - Highlight **H5 RW** and press the OK button.
  - Highlight **H6 SafeRW** and press the OK button.

When the process is complete, you can view the number of bad sectors detected and the read/write speed of the USB flash drive on the LCD display.

## Change the range limit percentage

You can select the percentage of the USB flash drive that you want to quality check.

1. Highlight **Utility** and press the OK button.
2. Highlight **Media Check** and press the OK button.
3. Highlight **Setup Range %** and press the OK button.
4. Highlight a percentage between 1 and 100 and press the OK button.

## Change the MB range limit

1. Highlight **Utility** and press the OK button.
2. Highlight **Media Check** and press the OK button.
3. Highlight **Setup Range MB** and press the OK button.
4. Highlight a number between 1 and 9000MB and press the OK button.

## Change the error limit

You can set the tolerance range when you check for errors on the USB flash drive.

1. Highlight **Utility** and press the OK button.
2. Highlight **Media Check** and press the OK button.
3. Highlight **Set Error Limit** and press the OK button.
4. Do one of the following:
  - Highlight **Sector** and press the OK button.
  - Highlight **KB** and press the OK button.
  - Highlight **MB** and press the OK button.
  - Highlight **GB** and press the OK button.
5. Highlight a number and press the OK button.

## View information about a USB flash drive

You can use this feature to view information about a USB flash drive, including drive type, content size, total capacity, and port number.

1. Use the Power switch to turn on the duplicator and eraser.
2. Insert up to 15 USB flash drives into the Destination USB flash drive ports.
3. Highlight **Information** and press the OK button.
4. Highlight **USB Info.** and press the OK button.
5. Use the UP and DOWN buttons to move through the USB flash drive ports.

# View system information

You can use this feature to view information about the system, including the model number and current firmware version.

1. Highlight **Information** and press the OK button.
2. Highlight **System Info.** and press the OK button.
3. Use the UP and DOWN buttons to move through the USB flash drive ports.

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For the latest drivers/software, please visit **www.startech.com/downloads**

## Warranty information

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