

Bstone Scanner

User's Manual



Bstone-001

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This product has been tested and found to comply with the limits for a class B digital device, pursuant to 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. The FCC Class B 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 your point of purchase or service representative for additional suggestions.



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- Low Voltage Directive 2006/95/EC
- EMC Directive 2004/108/EC

CE compliance of this product is valid if powered with the correct CE-marked AC adapter provided by Ju Ao.

*This machine is certified as Class 1 LED product. This means that this machine does not produce hazardous laser radiation.

Warning and Precautions of the lithium-ion battery

Warning:

Danger warning to prevent the possibility of the battery from leaking, heating, explosion, please observe the following precautions:

- Don't immerse the battery in water and seawater. Please put it in cool and dry environment if no using.
- Do not discard or leave the battery near a heat source as fire or heater
- Being charged, using the battery charger specifically for that purpose
- Don't reverse the positive and negative terminals
- Don't connect the battery to an electrical outlet directly.
- Don't connect the positive and negative terminal directly with metal objects such as wire. Short terminals of battery is strictly prohibited, it may damage battery.
- Do not transport and store the battery together with metal objects such as necklaces, hairpins.
- Do not strike, throw or trample the battery.
- Do not directly solder the battery and pierce the battery with a nail or other sharp object.
- Do not use lithium ion battery and others different lithium polymer battery model in mixture.
- Prohibition of use of damaged cells.
- Don't bend or fold sealing edge. Don't open or deform folding edge. Don't fillet the end of the folding edge.
- Don't fall, hit, bend battery body.
- Battery pack designing and packing Prohibition injury batteries.
- Never disassemble the cells.
- Keep the battery away from babies.
- Any components contacting these two edges, they must be insulated.

Caution:

- Risk of explosion if battery is replaced by an incorrect type. Dispose the battery according to local regulations.
- Never place batteries or devices on or in heating devices, such as microwave ovens, stoves, or radiators. Batteries may explode when overheated or its performance will be degenerate and its service life will be decreased.
- Do not use it in a location where is electrostatic and magnetic greatly, otherwise, the safety devices may be damaged, causing hidden trouble of safety.
- If the battery leaks, and the electrolyte get into the eyes. Do not wipe eyes, instead, rinse the eyes with clean running water, and immediately seek medical attention. Otherwise, eyes injury can result.
- If the battery gives off an odor, generates heat, becomes discolored or deformed, or in any way appear abnormal during use, recharging or storage, immediately remove it from the device or battery charge and stop using it.
- Avoid charging batteries for more than a week, as overcharging may shorten battery life. Over time, unused batteries will discharge and must be recharged before use.
- Disconnect chargers from power sources when not in use.
- Use batteries only for their intended purposes.
- Store the battery at 0°C to 40°C.
- Avoid exposing your device and batteries to very cold or very hot temperatures. Extreme temperatures can cause the deformation of the device and reduce the charging capacity and life of your device and batteries.
- Prevent batteries from contacting metal objects, as this can create a connection between the + and – terminals of your batteries and lead to temporary or permanent battery damage.
- In case the battery terminals are dirt, clean the terminals with a dry cloth before use. Otherwise power failure or charge failure may occur due to the poor connection with the instrument.
- Be aware discharged batteries may cause fire. Follow all local regulations when disposing of used batteries or devices.
- Never crush or puncture the battery. Avoid exposing the battery to high external pressure, which can lead to an internal short circuit and overheating.

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1. Overview

1.1 Introduction









Congratulations on your purchase of the Bstone scanner. With this scanner, you can scan and store your stone images directly to a micro SD card without any computer. Simply slide the scanner on the surface of your stone and the scanned image is stored into your micro SD card.

What is best, the scanner allows you to preview your scanned images with a built-in color LCD display to confirm what you have just captured.

Before you install and operate the product, please take a few minutes to read through this manual. It provides proper instructions for you to install, operate and maintain the product. The following figure indicates the package contents. Please check all the items against your checklist. If you do not receive all the items, please contact your authorized local dealer immediately.

1.2 Package Contents

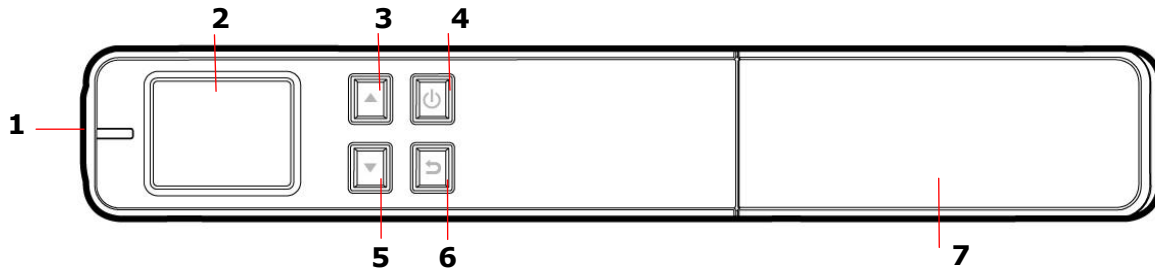
Standard package items:

 <p>Bstone Scanner</p>	 <p>USB Cable</p>	 <p>Quick Start Guide</p>	 <p>Micro SD Card (User's Manual)</p>
 <p>Carry Bag</p>	 <p>Li-Ion Battery</p>	 <p>Calibration Sheet</p>	 <p>Cleaning Cloth</p>

Note:

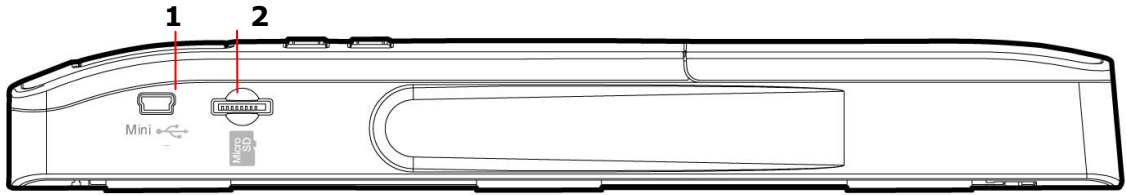
- Retain the scanner box and packing materials in case you may use them for shipping purposes.

1.3 Top View



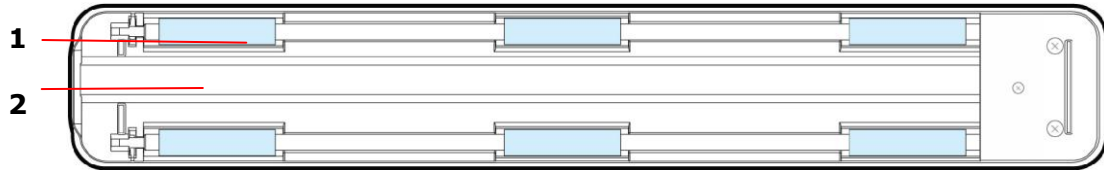
Item	Name	Description
1	System indicator light	Green LED indicates scanning or being charged./Red LED indicates a warning status.
2	LCD display	Displays preview pictures and settings menus.
3	Up arrow	<ul style="list-style-type: none"> Enters Menu screen from [Scan Ready] screen. Navigate "backward" through images and menu options.
4	Power/Scan button	<ul style="list-style-type: none"> Press to turn on the scanner. Press to start or end a scan. Accept option choice in Menu and Preview options. Press and hold for 3 seconds to turn off the scanner.
5	Down arrow	<ul style="list-style-type: none"> Enters Display mode from [Scan Ready] screen. Navigate "forward" through images and menu options.
6	Back arrow	Return to previous screen or exists from Display mode or Menu option.
7	Battery compartment	Slide to remove the cover.

1.4 Side View



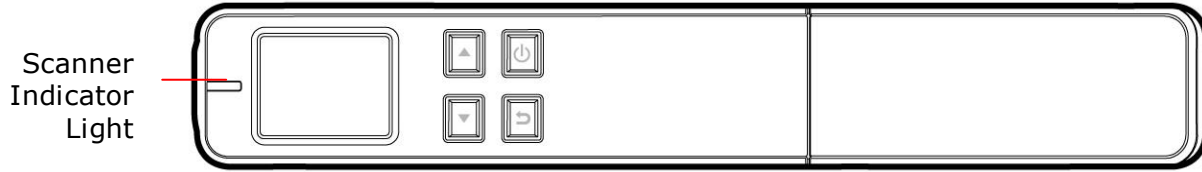
Item	Name	Description
1	USB port	Used to plug the mini end of the USB cable to connect to PC.
2	Memory card slot	Used to insert a memory card.

1.5 Bottom View



Item	Name	Description
1	Sensor rollers	The rollers are sensors and should only be rolled in one direction. Do NOT roll back and forth while scanning, except during calibration.
2	Glass	While rolling scanner over a stone, the optical sensor in the glass reads and scans the image.

1.6 Scanner Indicator Light



Status	Indication
Off	Scanner is off or scanner is on and ready for use
Orange briefly	Powering on for initialization
Green, steadily on	Scanning in progress in 300 dpi
Orange, steadily on	Scanning in progress in 600 dpi
Red, flashing	No SD card, SD card full, card error, no scan performed after initiating scan mode, or low battery

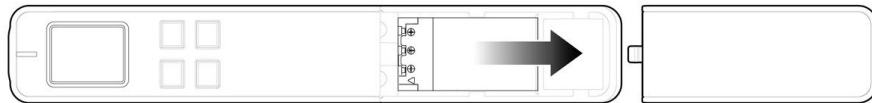
2. Installation

2.1 Precautions

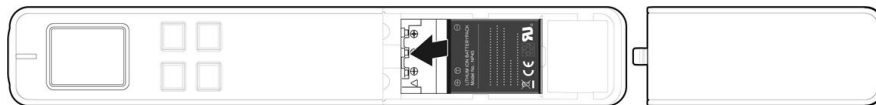
- Keep the product out of direct sunlight. Direct exposure to the sun or excessive heat may cause damage to the unit.
- Do not install the product in a humid or dusty place.
- Retain the product box and packing materials for shipping purposes.

2.2 Install the Batteries

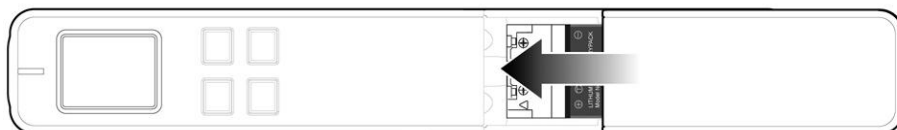
1. Push and remove the battery cover on the scanner.



2. Load the battery into the battery container. Make sure the battery is loaded with the correct polarity. Note the copper strips on the battery should be touching the copper strips on the device inside the battery container. Note: Please use only the supplied battery.

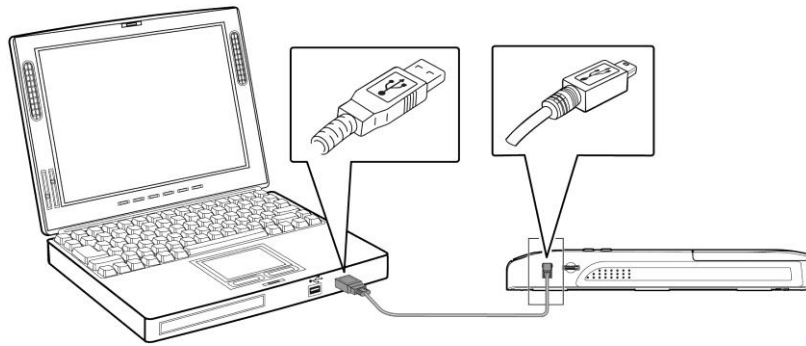


3. Insert the battery cover.



2.3 Charge the Batteries

1. Turn off the scanner.
2. Connect the mini USB connector to the USB port of the scanner.
3. Connect the other USB connector to the USB port on your computer.



Important:

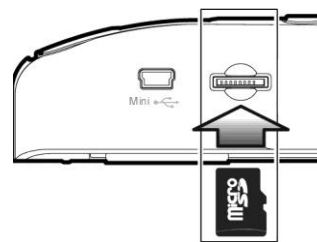
- Do not turn on the scanner power when charging the battery.
- Charge the battery for at least 2 hours until green LED goes off before using the scanner.

2.4 Install micro SD Card

You must install a micro SD card to the SD slot of the scanner to store your images. Gently press in until the SD card is latched.



micro SD card




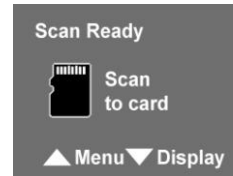
Note:


- The scanner only accepts micro SD card in FAT16 or FAT32 format. NTFS and other file formats are not supported.
- Always insert a micro SD card before calibrating and scanning.

3. Operation







3.1 Turn on the Scanner

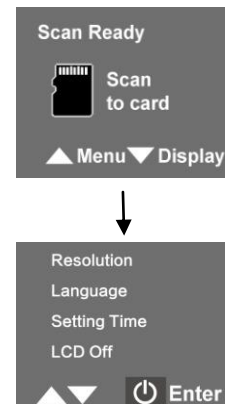
Press  to turn on the scanner. The LED will be flashing and then extinguished. The [**Scan Ready**] screen will be displayed as illustrated.



Press  again for about 3 seconds to turn off the scanner. The scanner will be automatically shut off if it is left idle for 3 minutes.

3.2 Choose Your Desired Scan Settings



1. On the [**Scan Ready**] screen, press  to enter the **Menu** mode.
2. A list of menu options is displayed. The options include **Resolution, Language, Setting time**, and so on.
3. Press  to focus on your desired option such as **Language**, and then press  to select it.
4. Press  to focus on your desired item such as **English**, and then press  to select it.
5. Press  to exit.

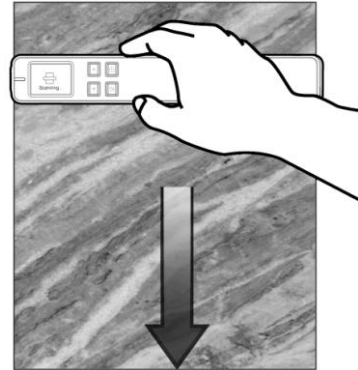


** To increase ease of use, please first go to "Menu" and then choose "Language" to select your desired language on the screen.*

** Default settings: Resolution: 300 dpi, LCD Off: 45 sec*

3.3 Start Scanning

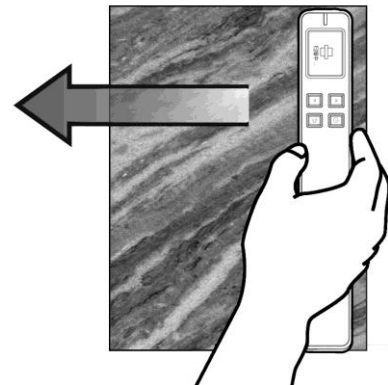
1. Make the rollers touch the stone surface.
2. Press  to start a scan.
3. Hold the scanner and glide the scanner gently over the surface of the stone as illustrated.
4. Press  to stop the scan.



**By default, the Preview mode is on allowing you to view the scanned images for 2 seconds immediately after scanning.*

Note:



1. Refer to the following list for a proper scan speed (based on a 50cm-length stone):
5 second (300 dpi) ; 10 seconds (600 dpi).
2. If you hold the scanner vertically and scan your original from right to left or from left to right, your image will be rotated 90°. Please use the image-editing software application to rotate the scanned image correctly in your computer.



3.4 Preview Scanned Images on the LCD Screen

You can quickly and easily preview your JPEG images on the LCD screen immediately after a scan, or at any other time. You can also view all images individually or as a slideshow.

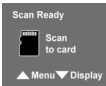






3.4.1 Set Preview Mode

By default, the Preview mode is on allowing you to view the scanned images for 2 seconds immediately after scanning. Two options appear on the screen with the image allowing you to press  to Save (default) or press  to Delete the image immediately.

When Preview mode is off, the JPEG scanned image is saved immediately without displaying a preview.

** Scans performed with Preview mode off use less battery power, so you can expect more scans with Preview mode off.*

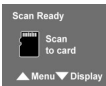




Follow these steps to disable the Preview mode:

1. With the  screen displayed, press  to enter the **Menu** mode.
2. Press  to focus on **Preview**, and then press  to select it.
3. Press  to focus on **Off**, and then press  to select it.
4. Press  to exit.

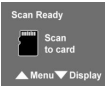






The Preview Screen

View Scanned JPEG images as Slideshow

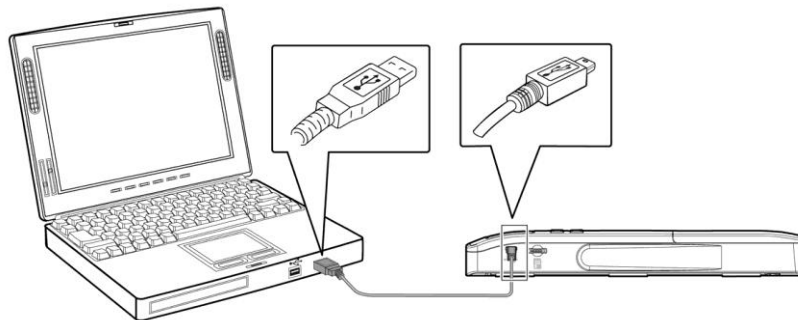
1. With the  screen displayed, press  to enter the **Display** mode.
2. The slideshow automatically begins and displays the images in the alphanumeric order they are stored on the SD card.
3. To pause the slideshow, press ; to restart the slideshow press  again.
4. Press  at any time to exit the slideshow.


View Scanned JPEG images Individually

1. With the  screen displayed, press  to enter the **Display** mode.
2. The slideshow automatically begins and displays the images in the alphanumeric order they are stored on the SD card.
3. Press / to view previous or next image.
4. Press  to exit the **Display** mode and return to the **Scan Ready** screen.

3.5 View or Download the Scanned Images (Windows)

1. To view or download your scanned images, you can either remove the micro SD card and connect it to a card reader, or connect the scanner to your computer via the supplied USB cable (be sure to turn on your scanner).



** When the scanner and your computer is connected successfully, all tasks are interrupted and the USB connection screen  is display.*

Warning:

It is recommended to download the scanned images by removing the memory card from the scanner and then inserting the memory card to your computer instead of connecting the scanner directly to your computer with the USB cable since this may require a lot of battery power.

2. Your computer should recognize the card or the scanner as a Removable Disk.
3. Click the Removable Disk and you will find a folder of "DCIM" is created and all the JPEG files in the subfolder of "100PHOTO". File name starts from IMG_0001.jpg.

Each scanned image is given a file name with the prefix **IMG_** followed by a 4-digit sequential number in the order the images are stored. *For example, **IMG_0001.jpg**, **IMG_0002.jpg**, etc.*

JPG files are stored in a sub folder titled **DCIM\100PHOTO**. The folder stores 9999 photo files, and then automatically creates another sub folder titled **101PHOTO**, and so on to **199PHOTO**.

3.5.1 Computer System Requirements for USB Connection

Operating system: Windows XP, Windows Vista, Windows 7, Windows 8
Mac 10.5 or above (*Mac is used only for data transferring*)

USB port: USB 2.0 /USB 1.1

3.5.2 After Successful Connection

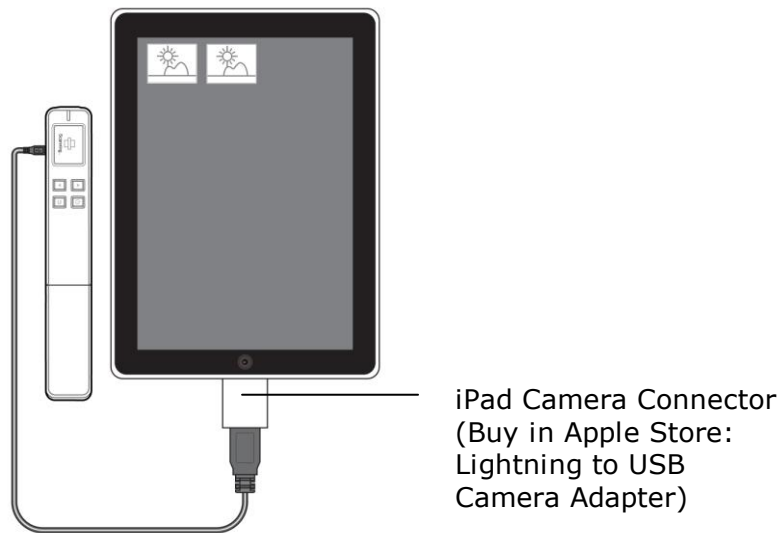
When the scanner connects with the PC, an additional drive is listed in the Explorer window titled **Removable Disk [drive letter]**, or the personalized title you may have previously assigned to your micro SD card.

3.5.2.1 Safely Disconnect Scanner/micro SD Card From PC

1. On the Windows System Tray, click the hardware removal icon.
2. Click the "Safely remove USB mass Storage device" message with the corresponding Drive.
3. When the "Safe to Remove Hardware" message appears, you can safely remove the scanner's USB cable.

3.6 View or Download Images with iPad

1. Plug the iPad Camera Connector (Buy in Apple Store: Lightning to USB Camera Adapter) to iPad dock connector. Plug the mini USB connector of the supplied USB cable to the Mini USB port of your scanner and plug the USB connector of the supplied USB cable to iPad Camera Connector.
2. The scanned images in the micro SD card of your scanner will be displayed in iPad in 3 seconds.
3. Choose "**Import All**" to load the scanned images to the album of your iPad.



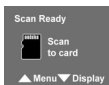





3.7 Customize Your Scan Settings

You can customize scanner settings through the Menu screen to fit different stone types.

3.7.1 Resolution

The scan resolution is measured in dpi (dots per inch). The higher the resolution, the more details the scanned image will be displayed. However, a higher resolution may require more disk space stored in the SD card.

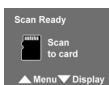






The scanner offers two resolution modes, 300 (default, normal), 600 dpi. Follow these steps to select your desired resolution:

1. With the  screen displayed, press  to enter the **Menu** mode.
2. Press  to select **Resolution**.
3. Press  to focus on your desired resolution, and then press  to select it.
4. Press  to exit.

3.7.2 Language

The scanner offers multi-lingual text for LCD screen. Choice includes English, Deutsch (German), Français (French), Nederlands (Dutch), Italiano (Italian), Español (Spanish), 繁體中文 (Chinese Traditional), 简体中文 (Chinese Simplified), 日本語 (Japanese), 한국어 (Korean), Português (Portuguese), Indonesia (Indonesian), Русский язык (Russian), Polski (Polish) and so on. However, the availability of the languages varies based on your area.

Follow these steps to choose your desired language:








1. With the  screen displayed, press  to enter the **Menu** mode.
2. Press  to scroll to **Language**, and then press  to select it.
3. Press  to focus on desired language, and then press  to select it.
4. Press  to exit.

3.7.3 LCD Off

To let the scanner enter power saving mode, the scanner provides option to turn off the LCD screen after idle for a specified time without turning off the power. The choice includes 45 seconds (default), 90 seconds, and 2 minutes.

To turn the LCD screen back on, simply press any button.

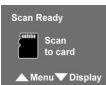






Follow these steps to change the setting:

1. With the  screen displayed, press  to enter the **Menu** mode.
2. Press  to scroll to **LCD Off**, and then press  to select it.
3. Press  to focus on your desired setting, and then press  to select it.
4. Press  to exit.

3.7.4 Preview

To quickly and easily preview your JPEG images on the LCD screen immediately after a scan, the scanner provides option to view the scanned images for 2 seconds immediately after scanning.

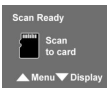







Follow these steps to change the setting:

1. With the  screen displayed, press  to enter the **Menu** mode.
2. Press  to scroll to **Preview**, and then press  to select it.
3. Press  to focus on your desired setting, and then press  to select it.
4. Press  to exit.

3.7.5 Date&Time

To ensure the accuracy of the scan date&time of the images, the scanner provides option to setting time.

Follow these steps to change the setting:

1. With the  screen displayed, press  to enter the **Menu** mode.
2. Press  to scroll to **Date&Time**, and then press  to select it.
3. Press  or  to change your desired setting, and then press  to select it.
4. Press  to exit.

3.7.6 Calibration

If the scanned image has vertical lines or discolorations, the scanner may need to calibrate in order for the Contact Image Sensor (CIS) to resume its color & sharpness precision.

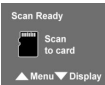






For calibration instructions, see the “Calibrate the Scanner” section.

*Calibrate the scanner only when the color of the scanned image looks abnormal.

3.7.7 Card Format

Warning !: If you reformat your memory card, all existing files on the card will be deleted.









To format your SD card:

1. With the  screen displayed, press  to enter the **Menu** mode.
2. Press  to scroll to **Card Format**, and then press  to select it.
3. Press  to select **Yes**.
4. To confirm, press .
5. After successful format, the **Menu** screen is displayed.
6. Press  to exit.

3.7.8 Factory Default

At any time, you can reset all menu settings back to the factory defaults.

To reset to defaults:








1. With the  screen displayed, press  to enter the **Menu** mode.
2. Press  to scroll to **Factory Default**, and then press  to select it.
3. Press  to select **YES**.
4. To confirm, press  .
5. After a successful reset, the scanner automatically shuts off. Press  to turn the scanner back on.
6. Press  to exit.

3.7.9 About

The About option lists the current Firmware and Calibration versions.

You may need this information if you contact our Customer Support.

Follow these steps to view the About information:

1. With the  screen displayed, press  to enter the **Menu** mode.
2. Press  to scroll to **About**, and then press  to select it.
3. Press  to focus on desired mode, and then press  to select it.
4. Press  to exit.

4. Maintenance






4.1 Calibrate the Scanner

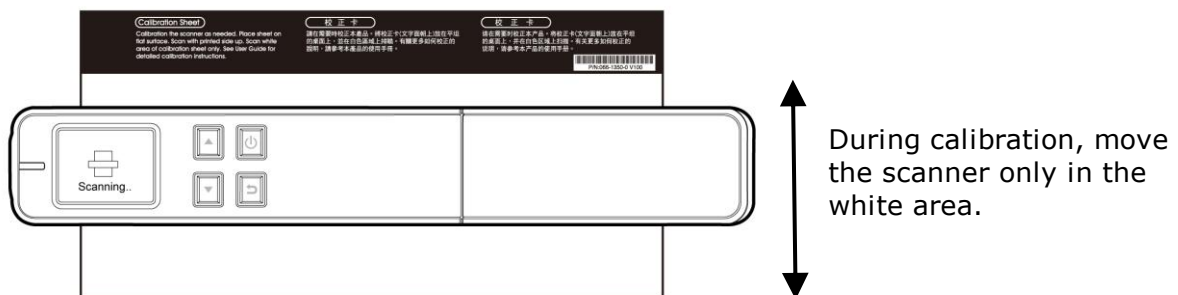
Calibrate only if the scanned image looks fuzzy, the color looks abnormal (e.g., darker than normal), after more than 8,000 scanned, or the scanner has been stored without use for a long time. The calibration process resets the Contact Image Sensor to resume its color and sharpness precision.

To calibrate the scanner, complete the following steps:

1. Make sure the battery is fully charged and a memory card is inserted.
2. Remove the calibration sheet from its plastic cover and lay it on a flat surface with the printed side **UP**.
3. Place the scanner on the **white area** of the calibration sheet, at the top of the white area.

** Make sure the sheet is clean (i.e. no debris or colored objects).*

4. With the  screen displayed, press  to enter the **Menu** mode.
5. Press  to scroll to **Calibration**, and then press  to select it.
6. Press  to select **YES**.
7. The scanner enters **Calibration** mode. Slowly slide the scanner down over **ONLY** the white area of the calibration sheet.
8. The scanner completes the calibration sequence and automatically **powers off**.
9. Carefully place the calibration sheet back into the plastic cover and store it in a safe place for future use.



Warning:

- Do not interrupt the calibration sequence or try to shut off the device while it is calibrating. If you stop the calibration before it has completed, a calibration error may occur. As a result, when you next power up the unit, an error message may be displayed, and you will have to power off the unit and repeat the instructions in this section.
 - Calibrate the scanner only when color of the scanned image looks abnormal.
 - Make sure the memory card is inserted.
 - Keep the calibration sheet from dust and debris. Any dirt may make the calibration chart invalid or impact the calibration result.
 - Use only the included calibration sheet to calibrate the scanner.
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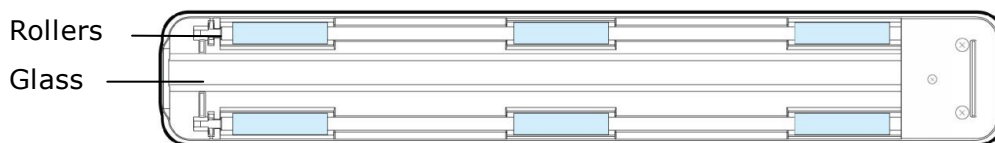
4.2 Clean the Scanner

It is recommended to clean the scanner approximately every 200 scans or if vertical lines or stripes appear on the scanned image.

Use only the recommended or supplied tool to clean the scanner.

Cleaning steps:**Clean the wand scanner:**

1. Turn the scanner over to reveal the rollers and glass.
2. Wipe the rollers and the glass with the included cleaning cloth.
3. Wipe the scanner with a dry and clean lint-free cloth.



Note:

- Adding some isopropyl alcohol (95%) on the cleaning cloth is more efficient when cleaning the rollers.
 - Do not use any solvents or corrosive liquid (*i.e., alcohol, kerosene, etc.*) to clean any part of the scanner, otherwise the plastic material will be permanently damaged.
 - Make sure the surface of the document or photo doesn't have any paper clips, etc. or this could damage the scanner glass lens.
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5. Troubleshooting

5.1 Error Messages

If there is error during scanning, the LED light will be flashing in red color and error message will be displayed. Refer to the following table to clear the error conditions.

Error Message	Root Cause/Code Purpose	How to restore
Insert Memory Card	<ol style="list-style-type: none"> 1. No memory card inserted. 2. Card not recognized. 	<ol style="list-style-type: none"> 1. Insert a memory card. 2. Try a different card.
Card Full	Card is full; can't save scanned image to inserted memory card	Free more space or insert a new micro SD card.
*Low battery	Battery power getting low.	Replace batteries (or recharge if using rechargeable batteries).
No image scanned	<ol style="list-style-type: none"> 1. No scan data detected. 2. Scanner time out. 	Wait until message disappears.
Format Fails	<ol style="list-style-type: none"> 1. Memory card not recognized. 2. File system is not FAT16/FAT32 	Use a different card.
Calibration Fails	Internal check failed and found calibration data error	Recalibrate the scanner (see the "Calibrate Scanner" section).
Scanned speed too fast	Images look distorted. Moving wand scanner over original too fast.	Move the scanner over the original slower, and if necessary, rescan the original.
None	Vertical lines appeared on images (The glass and rollers are dirty.)	Clean the glass and rollers with the supplied cleaning cloth.

*** Warning:**

1. If "low battery" is indicated on the LCD display, it is recommended to replace the batteries to prevent possible incomplete scanned images or other operational problems.
2. If 2 AA Alkaline batteries have been used, when battery power is low you may obtain incomplete scanned images or encounter operational problems before "low batteries" is indicated on the LCD display.

5.2 Frequently asked questions and answers

Q :	Why does not my scanner turn on?
A :	The batteries may not enough power or may not be inserted correctly.

Q :	The image can not be saved into the memory card while scanning?
A :	Make sure you have a micro SD card inserted correctly, and that it has adequate space

Q :	Why doesn't my computer recognize my scanner when it's connected via USB cable?
A :	Make sure the cable connection is correct and secure. Restart the computer if necessary.

Q :	Why do all the images I scan have the same date when saved on the memory card?
A :	The device does not have an internal "clock" to keep real time, so the date & time attributes are always a fixed date & time assigned during production, not current date & time.

Q :	Why are my scanned images distorted?
A :	You may be scanning too fast; scan again at a lower speed.

Q :	How can I tell if the scanner is scanning at 300 dpi, 600 dpi or 900 dpi?
A :	The scan indicator light indicates the selected resolution: Green= 300 dpi, Orange=600 dpi
Q :	Why there are strange lines on the scanned document?
A :	Please check the following: <ol style="list-style-type: none">1. Are there scratches on the stone or is the stone clean ?2. Remove any stains or dust from the stone surface before scanning.3. Clean the rollers and glass with the included cleaning cloth. (Refer to the section "Cleaning the Rollers and Glass))
Q :	Will the scanner recharge my rechargeable batteries?
A :	No, the scanner does NOT recharge rechargeable batteries. You must use your own battery charging device.
Q :	Why there is a red or gray background with lines on my scanned image?
A :	The scanner does not enough power to perform a scan. Charge your batteries and restart the scan.
Q :	Should the scanner feel warm to the touch?
A :	It is normal for the scanner to emit a small amount of heat after prolonged use. However, if there are strange odors coming from the scanner or the scanner feels a little bit hot to the touch, turn the scanner off immediately.

5.3 Technical Service

Before contact Ju Ao, please prepare the following information:

- Scanner serial & revision number (located on the bottom of the scanner);
- Hardware configuration (e.g., your host CPU type, RAM size, free disk space, display card, interface card);

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6. Specifications

All specifications are subject to change without notice. For the most up-to-date and detailed specifications, please refer to our web site at <http://www.bstone.com>

Item		Description
Image Technology		Contact Image Sensor (CIS)
Scanner Display		TFT LCD 1.8 in.
Auto Power Off		3 minutes
Output File Format		JPEG
Resolution		300 dpi /600 dpi
Interfaces	Memory Card	Micro SD card
	USB	Mini USB port compatible with the USB 2.0
Power		Rechargeable Li-ion battery compatible with NP45/(3.7V, 700mAh)/CA NP45 (3.7V, 700mAh)
Net Weight		250 g Scanner + battery: 298 g
Dimensions (WxLxH)		41 x 258 x 36 mm (1.6 x 10.1 x 1.4 in.)
Max. Scan Area		216 x 356 mm (8.5 x 14 in.)
Operating Environment		Temperature: 5° C ~ 35° C (59° F ~ 95° F) Humidity: 20% ~ 85% RH