

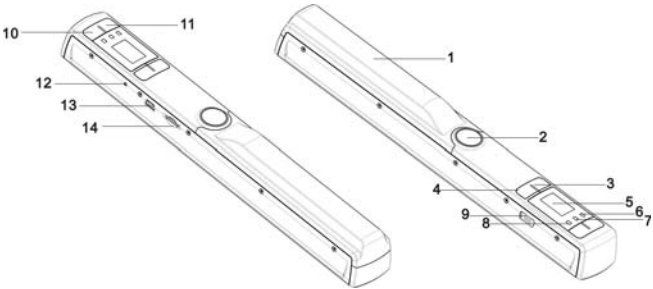
TSN44W manual

FCC ID: ZEATSN44W

1. Key features

- Scan color & monochromatic (mono) images, documents, books and magazines
- 300/600/900 dpi scan resolution
- Directly save files in JPG or PDF format to microSD card
- Supports microSD/microSDHC card up to 32GB
- Transfer files via Wi-Fi connection
- Driver-free for Windows XP, Windows Vista, Windows 7 and Mac OS 10.4 or above
(Directly plug-in, driver installation not required)

2. Functional parts



	Part	Function
1	Battery cover	Open to store 2x AA alkaline batteries
2	Power/Scan	Power On/ Off: Press and hold this key for 2 seconds to turn power on or off. When the scanner is on, press this button to start scanning, press this button again to stop
3	Format button	Format the microSD card will delete all data from memory card
4	Color/Mono	Select Color/Mono scan option Color/Mono mode icon will be displayed on status LCD
5	LCD screen	Scanning status display
6	Error LED indicator	Indicates scan error or over speed
7	WIFI LED indicator	Indicates Wi-Fi status
8	Scan LED indicator	Shows the scanning status; ready for scan
9	Wi-Fi switch	Slide to turn Wi-Fi on/off
10	DPI	Scan resolution setting for High(900dpi) / Medium(600dpi) / Low(300dpi); High/Medium/Low resolution mode icon will be displayed on status LCD
11	JPG/PDF	Select scan file format with JPG/PDF button, JPG/PDF mode icon will be displayed on status LCD
12	Time set	Press this button to enter Time and Date setting mode
13	USB interface	Connect to a computer via USB cable provided to view and transfer files

14	microSD card slot	microSD card storage location
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3. Explanation of the status icons



Item	Function	Description
1	File Format	JPG/PDF
2	SD card indicator	Photos will be stored in microSD card
3	Battery indicator	Battery is full Empty battery
4	Scan Color	COLOR/MONO
5	Counting Indicator	Shows scanned files in the microSD card
6	Scan resolution	HI:900 dpi / MI:600 dpi / LO:300 dpi

4. LED light indications

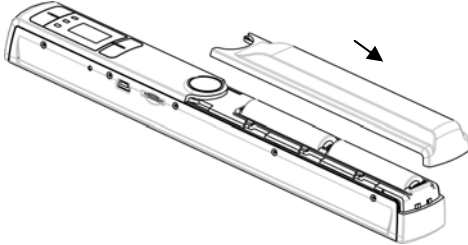


LED indication	Description
Green LED ON	Scanning in progress.
Green LED OFF	Scanning is ready or completed.
BLUE LED OFF	Wi-Fi is off.
BLUE LED ON	Wi-Fi is initializing
BLUE LED flashes every 3 seconds	Wi-Fi is ready for connection or enabled
BLUE LED flashes rapidly	Data is transferring via Wi-fi mode
RED LED ON	Scanning too fast

5. Using the scanner

5.1 Installing the battery

1. Open the battery cover by sliding the battery compartment downwards then lift up as indicated by the arrow in the diagram below.
2. Insert 2x AA alkaline batteries into the battery compartment.
3. Turn on the scanner by pressing the [POWER] button for 2 seconds.



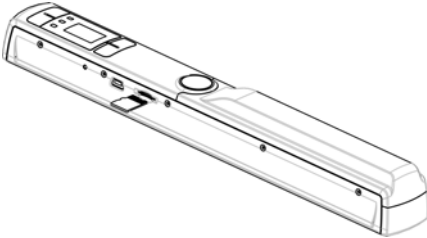
5.2 Inserting a microSD memory card (not included)

To operate the scanner, you must insert a microSD card (not supplied) to record and store your pictures. Insert the microSD meory card:

1. Turn ON the scanner.
2. Insert the microSD card into the microSD card slot (with metal side facing up).
Gently press in until card is latched and clicked into place.
3. The SD card indicator must appear on the LCD screen.

Note:

1. Do not force the card into the slot; forcing may damage both the scanner and the MicroSD card. Align the microSD card position (as marked) and try again.



5.3 Time and Date setting

1. Press [TIME SET] button once to enter time setting mode by using a thin, blunt object, such as the end of a paperclip to access the button. The LCD status display screen will show "1 ##" (step 1) for the year. "##" is a set of number that would be changed to correspond to the actual time/date setting. The numbers 1-5 in front of "##" indicates each step in the settings.
 2. Press the [JPG/PDF] or [DPI] button to select the current Year.
 3. Press [SCAN] button once to confirm setting.
 4. Repeat step 2 and 3 to continue the Time and Date setting process
- | Indicator | Setting |
|-----------|---------|
| 1 ## | Year |
| 2 ## | Month |
| 3 ## | Date |
| 4 ## | Hour |
| 5 ## | Minute |
5. After setting the Minute, "5##", press the [TIME SET] button again to complete the Time and Date setting.

5.4 Formatting the microSD memory card

Note: All content on the microSD card will be erased during formatting.

1. Insert a microSD card into the scanner with metal side facing up.
2. Turn on the scanner by pressing the [Power/Scan] button for 2 seconds.
3. Press the format button. An "F" will display on the LCD status display screen.
4. Press the [SCAN] button once to format the microSD card.
5. The SD card indicator will flash until the formatting process is complete.

5.5 Setting the resolution

Press the [DPI] button to select High / Medium / Low resolution. High/Medium/Low resolution icon will be displayed on status LCD.

5.6 Setting the scan mode


Press the [JPG/PDF] button to select JPG/PDF mode. JPG/PDF icon will be displayed on status LCD.

5.7 Setting the color/mono mode

Press the [COLOR/MONO] button to select scan type Color/Monochromatic mode. Color/Mono icon will be displayed on status LCD.

5.8 Calibrating the scanner

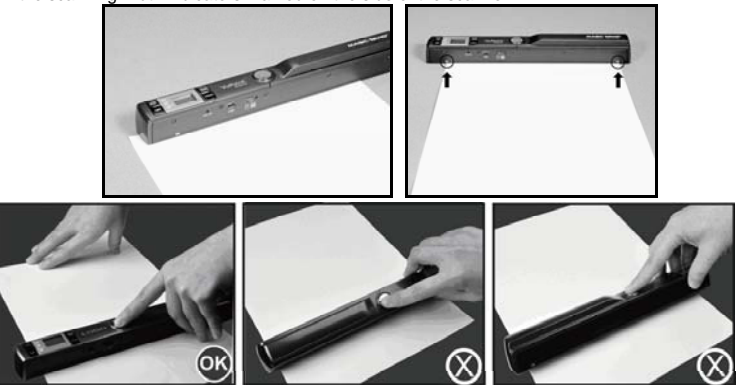
NOTE: Perform calibration only when white balance needs adjustment

- With the dry cleaning cloth provided, clean the scanning lens located on the bottom of the scanner.
- Turn on the scanner by pressing the [POWER] button. Place the scanner on the white area of the White Balance Calibration paper provided.
- Press and hold the [COLOR/MONO] button. While holding the [COLOR/MONO] button, press the [POWER] button and then release both buttons to enter into auto-calibration mode. SD symbol  will flash and then stop. "GREEN" and "RED" LED light will turn on.
- Do not move the scanner. Wait until the "RED" LED turns off. "GREEN" LED will stay on.
- With only the "GREEN" LED light on, start scanning the white paper by sliding the scanner across the paper until the "GREEN" LED light turns off. (Slide the scanner backwards if necessary).
- Press and hold the [POWER] button to power off the scanner. Calibration is complete.

5.9 Scanning a document

NOTE: To scan, make sure your scanner is not connected to the computer.

- Turn on scanner by pressing the [Power/Scan] button for 2 seconds.
- Hold the document firmly with one hand on a flat surface.
- Place the scanner on the edge of the paper approximately 5/8 to 3/4 of an inch onto the page to ensure the whole document can be scanned. Make sure to keep the scanning area in between the scanning width indicators marked on the side of the scanner.



- Slide the scanner slowly, keeping your hand stable to get the best quality picture.
- Press the [SCAN] button again to stop scanning.

6. Using Wi-Fi function

6.1 Enabling Wi-Fi function

View and transfer file from the scanner to your computer, laptop, smart devices and tablets via Wi-Fi mode.

- Turn on the scanner and slide the Wi-Fi switch ON. "BLUE" Wi-Fi LED light will be lit.
- Wait 15-20 seconds for Wi-Fi to initialize
- "BLUE" LED light will flash every 3 seconds once Wi-Fi mode is enabled and ready for connection. "□□□□" will display on status LCD.

NOTE: The use of Wi-Fi function will reduce battery life more rapidly. Turn Wi-Fi mode OFF when not in use to save battery. In Wi-Fi mode, Can not use the scanner to scan file.

6.2 View files from Internet Browser via Wi-Fi

- Turn on Wi-Fi mode on your scanner.
- Go to network setting on your computer/smart device to enable Wi-Fi setting
- Search the "WIFISCAN" network
- Enter password "123456789" to connect to the scanner
- Open Internet browser and input "192.168.1.2" or "wifi.scan" at the address bar to enter navigation page to view and download files.
- In navigation page, click FILE button to preview and download files stored in the scanner.

6.3 Using the Free App

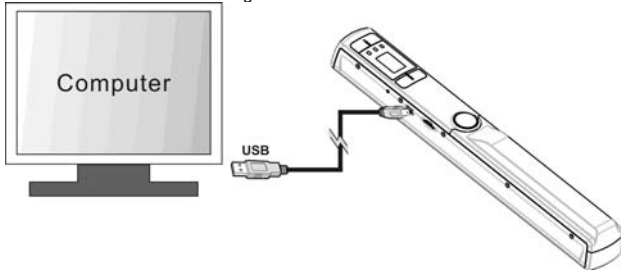
- Search Scan+ app from the Apple App store
- Download and install the app to your smart device
- Turn on Wi-Fi mode on the scanner
- Go to network setting on your smart device and enable Wi-Fi setting.
- Search for "WIFISCAN" network
- Enter password "123456789" to connect to the scanner. Open your app..

NOTE: Refer to App page for detail operation description

7. USB Connection with Computer

- Connect your scanner to your computer and then turn on your scanner.
- Your computer will recognize the scanner as a "Removable Disk", "□□□□" symbol will display on status LCD. Click "Open folder to view files" to view, import, copy, move or delete scanned files.

NOTE: If the Removable Device Window did not launch automatically, go to your "My Computer" and find the device under Removable Storage.



8. Specifications

Image sensor	Color Contact Image Sensor
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Number of sensor	5136 dots (1st~5104 dots available)	
Resolution	Low resolution: 300x300 dpi Middle resolution: 600x600 dpi High resolution: 900x900 dpi	
Maximum scanning speed for Letter size document	Color High resolution Mono High resolution Color Medium resolution Mono Medium resolution Color Low resolution Mono Low resolution	12.0 Seconds 10.0 Seconds 8.0 Seconds 6.0 Seconds 3.0 Seconds 2.0 Seconds
Capacity (Based on 1GB microSD card. Scan Letter size file, the quantity of scans varies depending on the content complexity)	Color High resolution Mono High resolution Color Medium resolution Mono Medium resolution Color Low resolution Mono Low resolution	300 Scans (Min.) 320 Scans (Min.) 640 Scans (Min.) 700 Scans (Min.) 1600 Scans (Min.) 1800 Scans (Min.)
Scan width	212mm	
Scan length (max.)	300dpi: 98", 600dpi: 45", 900dpi:35"	
File format	JPG/PDF	
LCD	Scanning status display	
Auto Power Off	3 Minutes	
USB Port	USB 2.0 high speed	
External memory	microSD/microSDHC memory card to up 32GB	
Standard Battery	2X AA alkaline batteries	
Wi-Fi®	802.11b/g/n	

9. Computer system minimum requirement

Operating System	Windows 7 / Vista / XP and Mac OS 10.4 or above (Driver Free))
CPU	Pentium III or above
RAM	At least 256MB
Interface	USB port

10.Troubleshooting

Problem	Cause	Solution
Cannot turn on the scanner	1. Low battery power. 2. Battery not inserted properly	Replace or install the battery correctly
Pictures cannot be saved when you are scanning them	1. The microSD card has not been installed 2. Memory is full 3. The MicroSD card has not been formatted properly	1. Install microSD card 2. Download the pictures from the scanner to the computer to create storage space 3. Reformat mircoSD card Please refer to section 5.4
Computer does not recognize your scanner when connected (You cannot find removable disk)	Connection failure.	Make sure all cable connections are secured. Restart the computer if necessary
The battery life is very short	Use wrong type of battery	Replace with new 2x AA alkaline batteries
Blurry images	1. The lens of scanner is dirty. 2. Contact Image Sensor aged.	1. Clean the lens with soft dry cloth. 2. Recalibrate scanner. Refer to section 5.8
ERR. LED is on after powering on scanner	Sensor off-set	Recalibrate the scanner. Refer to section 5.8
ERR. LED is on when scanning a document	Scanning speed is too fast	Press the Power/Scan button to reset and scan the document again
Black Images/Black or white vertical lines	1. Scanner senor protective glass is dirty. 2. Calibration data is off-set.	1. Clean the sensor's protective glass with clean and soft dry cloth. 2. Recalibrate scanner. Refer to section 5.8
Wi-Fi abnormal connection	1. Abnormal connection 2. The battery is low.	1. Reconnect Wi-Fi. Refer to section 6 2. Replace with new 2x AA alkaline batteries

WARNING:
Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Ad Hoc function is supported but not able to operate on non-US frequencies.

IMPORTANT REGULATORY INFORMATION
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 that is received, including any interference that may cause undesired operation.
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the 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.