

Magic Wand™ Portable Scanner with Auto-Feed Dock

PDSDK-ST470-VP-BX2

User Manual



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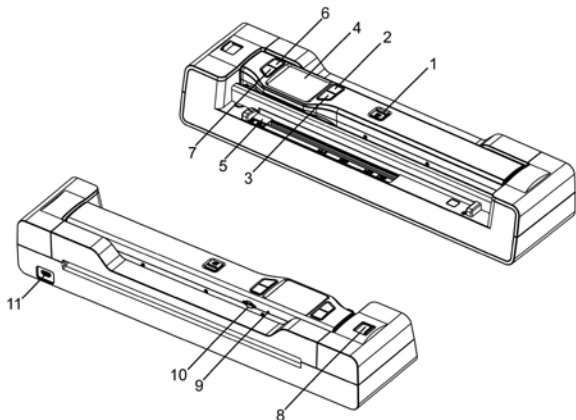
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Getting to know your PDSDK-ST470-VP-BX2 Scanner

1. Key Features

- JPEG, PDF-A4 or PDF-Letter scan-format selection.
- Color or Monochromatic (mono) scan selection.
- 300 (LO)/600 (MI) /1050 (HI)/1200 (HI) DPI scan quality selection.
- Directly save JPG (JPEG)/PDF files to the microSD/microSDHC card.
- Support microSD/microSDHC memory card up to 32GB.
- Color display to playback the scanned images
- Compatible to Windows® XP, Windows® Vista™, Windows® 7, Windows® 8, and Mac OS® 10.5 or above (direct plug-in, driver installation not required)

2. Functional Parts





1		<p>Power On/ Off: Press and hold this key for 3 seconds to turn power on or off. In Power on mode: 1) When using the scanner without the docking station, press this button to start scanning, press this button again to stop; 2) When the scanner is on the docking station with PC connection, press this button to switch between Standby mode and USB mode. In Setup mode, press this button to confirm changes. In Playback mode, press this button to change the zoom between normal, 4x, and 8x.</p>
2		<p>Press this button to enter Playback mode. Press this button to return to the previous screen. In Setup mode: Press this button to exit Setup mode.</p>
3		<p>Press this button to enter Setup mode. In Playback mode: Press this button to enter the single file delete mode. When zooming in under Playback mode: press this button to shift the functions of  and  between UP/DOWN and LEFT/RIGHT.</p>
4	LCD screen	Display scanning status, scanned image and scanner settings.
5	Paper guide tab	Adjust to scan documents of different sizes.
6		<p>Press this button to select JPG (JPEG), PDF-A (PDF-A4) or PDF-L (PDF-Letter) file format. The icon of the selected mode will be displayed on the LCD screen. In Setup mode: Press this button to move up the selection bar. In Playback mode: Press this button to preview the previous image. When zooming in under Playback mode: press it to move to the upper/left portion of the image.</p>
7		<p>Press this button to select LO (300dpi), MI (600dpi), HI (1050dpi), or HI (1200dpi when docked) scan quality. The icon of the selected quality will be displayed on the LCD screen. In Setup mode: Press this button to move down the selection bar. In Playback mode: Press this button to preview the next image. When zooming in under Playback mode: press it to move to the lower/right portion of the image.</p>
8	Docking latch	Slide in to secure the scanner, slide out to release the scanner
9	Reset	Press to reset the scanner (Hardware reset)
10	microSD card slot	The microSD/microSDHC card storage location.

11	USB interface	Connect to a computer with the USB cable provided to view and transfer files To charge up the built-in battery with an optional AC/DC power adapter
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3. Explanation of the Status Icons



Item	Function	Description
1	Scan Format	JPG/PDF-A/PDF-L
2	Scan Resolution	LO: 300 DPI MI: 600 DPI HI: 1050 DPI(without docking)/1200 DPI(with docking)
3	Battery Power Indicator	 Fully charged  Low battery. Recharge needed
4	Scan Color	COLOR/MONO
5	File Counter	Shows the number of scanned files in the microSD card

4. Getting Started


4.1. Charging the Battery

Charge the built-in battery before using the scanner.

Charge time from empty to full is approx. 2.5 hours.

Two Charging Methods:

- By connecting to an AC/DC power adapter with the included USB cable via the USB interface on the scanner or the docking station when the scanner is docked.
- By connecting to a computer with the USB cable (supplied) via the USB interface on the scanner or the docking station when scanner is docked.

NOTE: Once the battery is fully charged while the scanner is off, battery indicator  will briefly display on LCD screen and will turn off automatically.

4.2. Inserting a microSD/microSDHC Memory Card (not included)

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

To insert the microSD/microSDHC memory card:

1. Turn OFF the scanner
2. Insert the microSD/microSDHC card into the microSD card slot (with metal side facing upwards). Gently press in until the card is latched and clicked into place.


4.3. Power ON/OFF the Scanner

Power on/off the scanner by pressing and holding  for 3 seconds.







NOTE:

1. If the scanner is turned on for the first time, it will enter Date & Time/Language setup mode. Once Date & Time/Language setting is completed, scanner will enter into standby mode.
2. If Auto off is set at "3 Min" (refer to section 5), the scanner will turn off automatically if scanner action is not detected within 3 minutes.

4.4. Setting Date & Time/Language

1. Press  to jump to next setting option: YEAR → MONTH → DATE → HOUR → MINUTE.

When setting up the value for MINUTE, press  to return to the previous setting option until it reaches the YEAR option.

2. Press  or  to set the number corresponding to each setting.
3. Press  to confirm and move to next setting.
4. After completing the setting for MINUTE, it will enter language setup screen.
5. Press  or  to select the desired language.
6. Press  to confirm and enter standby status.



4.5. Calibrating the Scanner (OPTIONAL. ONLY WHEN NEEDED)

NOTE: If scanned images are too dark or too bright, you may need to adjust the white balance by calibrating the scanner.




1. Take the scanner out from the docking station.
2. Wipe off any dirt on the surface of the scanning lens with the clean dry cloth provided.
3. Place the scanner on the white portion of the calibration paper provided. Press and hold the

SCAN





 button for 3 seconds to turn on the scanner.

4. Press and hold  then press . Release both buttons afterwards to enter into auto-calibration mode. The message "1. Calibration starts. Do not move the device!" will display on LCD screen.
5. Do not move the scanner until the second message "2. Scan the calibration sheet!" appears on the LCD screen. Start scanning the white portion of the calibration paper by sliding the scanner across the paper (slide the scanner backwards if necessary).
6. "3. Calibration completed!" message will appear on the LCD screen when calibration is completed. Press any button to power off the scanner.

5. Setup Menu

1. Press  to enter Setup menu
2. Press  or  to exit Setup menu.

Follow the below three steps to enter setup screen for each Menu item:

1. Press  to enter setup mode.
2. Press  or  to select the Menu item you want to set.
3. Press  to enter the setup screen.


Menu items	Description	Options
JPG/PDF	Scan Format	<ul style="list-style-type: none"> • JPG • PDF - A (A4) • PDF - L (Letter)
Quality	Scan Quality (DPI)	<ul style="list-style-type: none"> • LO-300 DPI • MI-600 DPI • HI -1050 DPI(without docking) • HI -1200 DPI(with docking)
Color	Scan Color	<ul style="list-style-type: none"> • Color • Mono
Language	Menu language	<ul style="list-style-type: none"> • English • Spanish • French • German • Italian • Dutch • Russian • Japanese • Traditional Chinese • Simplified Chinese

Date/Time	Date and Time	<ul style="list-style-type: none"> • Year • Month • Date • Hour • Minute
Inst.Preview	Instant preview	<ul style="list-style-type: none"> • On • Off
Auto Off	Auto Power Off	<ul style="list-style-type: none"> • Off • 3 Min
Delete All	Delete All Files	<ul style="list-style-type: none"> • No • Yes
Format	Formatting the microSD memory Card	<ul style="list-style-type: none"> • No • Yes (All contents on microSD/mircosDHC card will be erased)
Device Info	Device Information	/


6. Using the Portable Scanner

6.1. Using the hand-held scanner to scan

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

1. Power on your scanner by pressing and holding  for 3 seconds.
2. Hold the document firmly with one hand on a flat surface.
3. Place the scanner on the edge of the paper approximately 5/8 to 3/4 of an inch onto the edge of the paper to ensure the whole document can be scanned. Make sure to keep the scanning area within the scanning width indicators marked on the side of the scanner.




4. Hold the scanner flat against the material and then press  once to start the scanning process.



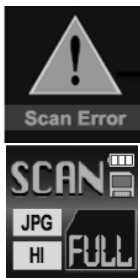
- Slide the scanner across the document slowly, keeping your hand stable to get the best picture quality.



- Press  again to stop scanning when the scanner has reached to the end of the document.

NOTE:

- If the scan is done too quickly or when there is any abnormal operation, "Scan Error" icon will display on the LCD screen. The image will still be saved after the scanning stops.
- If Instant Preview feature is set to "on", scan result will shortly be displayed on the LCD screen before the scanner returns to standby mode.
- When the memory card is full, the scanner is unable to scan more images. If you press the scan button under such situation, "Full" will flash rapidly on the File Counter of the LCD screen for 2 seconds.



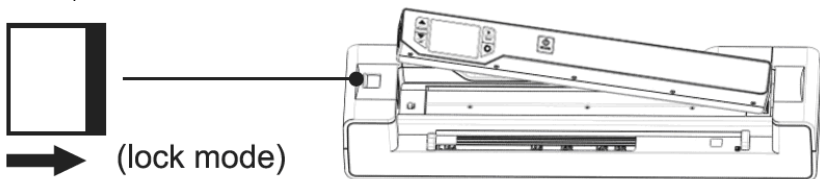
6.2. Viewing scanned files after scanning

Connect the scanner to the computer via USB cable provided for power. Refer to Section 8.2 for more information.

7. Using the Docking Station

7.1. Attaching the scanner to the Docking Station to scan

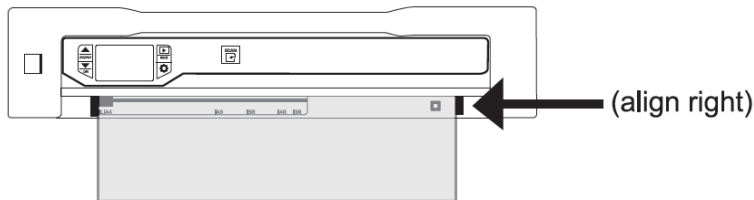
1. Slide the docking latch from Lock to Release
2. Place the scanner on the Docking Station inserting the right side of the scanner first. Make sure the scanner is securely locked to the Docking Station with a microSD card properly inserted to the portable scanner.



3. Connect the Docking Station to an outlet with the adapter or plug directly to the computer via USB cable for power.
4. Press and hold the ^{SCAN} button to turn on the scanner.
5. Adjust the paper guide tab to the size of the original.




6. Smooth the edges of the original before scanning.
7. Always align the original against the right side of the slot.





8. The Docking Station will automatically pass the original through. During the scan, scanning status icon will be displayed on the LCD screen to indicate scanning is in progress. Scan complete.



9. If the scanner is connected to the computer via the USB interface, press  once to enter into USB mode to view scanned files on your computer. Refer to Section 8.1 for more information.

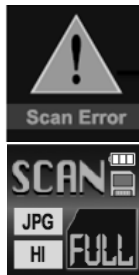
NOTE:

1. If the docking station does not detect the document paper within 4-5 seconds, remove the document, realign, and try scanning again.
2. When docked, the scanner is unable to scan black or transparent documents.
3. When scanning relatively thick documents such as credit card or ID card, it is suggested to insert it vertically into the slot for a better scan.



4. The scanner will enter charging mode if no scanning action is detected within 1 minute of each scan.

- If "Scan Error" icon display on the LCD screen, you need to replace the original memory card with a higher class microSD/microSDHC card. (Class 6 or above is recommended). The error will still save the image after the scan completes.
- If instant preview is set to "on", no matter if the scan result is normal or abnormal, the scanned image will be displayed shortly on the LCD screen before the scanner returns to standby mode.
- When the memory card is full, the scanner is unable to scan more images. If you press the scan button under such situations, "Full" will flash rapidly on the File Counter of the LCD screen for 2 seconds.



7.2. Releasing the scanner from the Docking Station

- Slide the docking latch from Lock to Release.
- Take the scanner out from the docking station by lifting the left side first.


WARNING: Do not press the Eject Button inside the Docking Station




8. Connecting to a Computer

8.1. Scanner with Docking Station → Computer

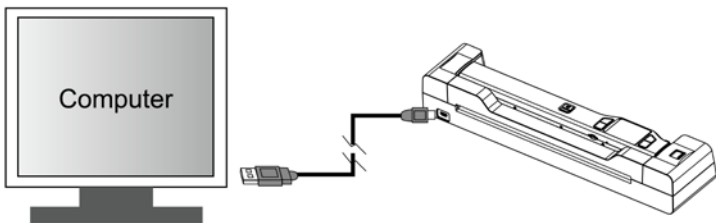
Connect your scanner with Docking Station to your computer to view pictures on the computer monitor.

- Lock your scanner to the Docking Station and connect to your computer and then turn on your scanner.
- Press the  button once to switch into USB mode. Your computer will recognize the scanner as a "Removable Disk", "USB" symbol will display on status LCD screen. Click "Open folder to view files" to view, import, copy, move or delete scanned files.



3. Press the  button again to switch back to scanning mode.

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



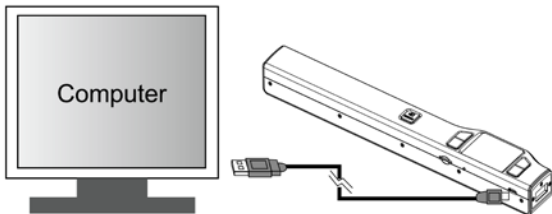
8.2. Scanner only → Computer

Connect your scanner to your computer to view pictures on the computer monitor.


1. Connect your scanner to your computer and then turn on your scanner.
2. Your computer will recognize the scanner as a "Removable Disk". "USB" 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 does not launch automatically, go to your "My Computer" and find the device under Removable Storage.

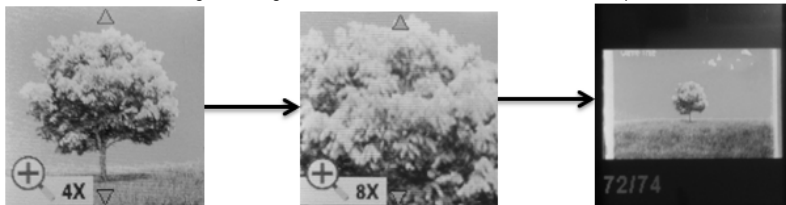









9. Image Preview

1. Press  to enter Playback mode. The last scanned image will be displayed.






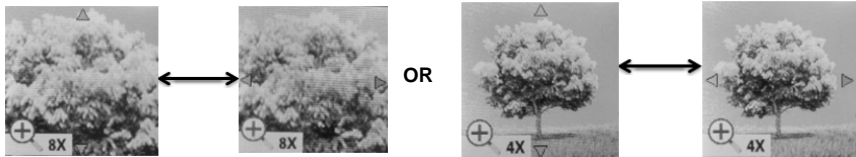
2. Press  or  to select your desired image. Press  to zoom in the image.
3. The  and  indicators will appear on the screen when pressing  in step 2, press  to view the upper portion of the image, press  to view the lower portion of the image.
4. Press  to change the magnification between 4x, 8x and normal zoom options.




5. The  and  indicators will appear on the screen when  is pressed again. The functions of  and  will be shifted to LEFT and RIGHT and you can press  or  button to view the left or right portion of the image.

NOTE:

When zooming in under Playback mode (4x, 8x), you may choose to view upper/lower or left/right portion of the image by pressing  to shift the functions of  and  between UP/DOWN and LEFT/RIGHT according to your needs.










6. Press  to return to the previous Playback screen, press it again to return to standby mode.

NOTE:

When scanning one relatively long document or scanning several documents in a row, the scanned image cannot be magnified if the file size exceeds 9 MB.

10. Deleting Single File

1. Press  to enter Playback mode.
2. Press  or  to select the file you want to delete.
3. Press  to enter Delete File mode.
4. Press  or  to select Yes or No
 - Select "Yes" to delete the current file in the memory card
 - Select "No" to return to the Playback screen.
5. Press  to confirm your selection and return to the previous Playback screen.

11. Specifications

Image sensor	A4 Color Contact Image Sensor	
Resolution	High resolution	1200x1200 dpi (when docked)
		1050x1050 dpi
	Medium resolution	600x600 dpi
	Low resolution	300x300 dpi
Minimum scanning speed for Letter size document	Scanner with Dock:	
	Color High resolution	12 Seconds
	Mono High resolution	12 Seconds
	Color Medium resolution	12 Seconds
	Color Medium resolution	12 Seconds
	Color Low resolution	8 Seconds
Mono Low resolution	8 Seconds	

	Scanner without dock: Color High resolution Mono High resolution Color Medium resolution Color Medium resolution Color Low resolution Mono Low resolution	12 seconds 10 seconds 8 seconds 6 seconds 3 seconds 2 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	150 Scans (Min.) (when docked) 140 Scans (Min.) 150 Scans (Min.) (when docked) 150 Scans (Min.) 550 Scans (Min.) 600 Scans (Min.) 1580 Scans (Min.) 1600 Scans (Min.)
Scanner document size	A4, A5, 5R, 4R, 3R and below	
Scan width	8.5"	
Scan length	300DPI:125"(max);600DPI:60"(max); 1050DPI:50"(max)/ 1200DPI:45" (max)	
File format	JPEG/PDF	
LCD	approx. 1.5" Class* Color LCD	
Dimensions (L x H x W)	10.5" x 1.1" x 1.5"	
Auto power off	3 Minutes	
USB port	USB 2.0 high speed	
External memory	microSD/microSDHC Card	
Standard battery	Built-in 700mAH Lithium-Polymer	

12. Computer System Minimum Requirements

Operating System	Windows® XP, Windows® Vista™, Windows® 7, Windows® 8 and Mac OS® 10.5 or above (direct plug-in, driver installation not required)	
CPU	Pentium	III or above
RAM	At least 256MB	
Interface	USB port	

13. Troubleshooting

Problem	Cause	Solution
Cannot power on the scanner	Low battery	Recharge the battery
Pictures cannot be saved when scanning	<ol style="list-style-type: none">1. The microSD/microSHDC card has not been installed2. Memory is full3. The microSD/microSDHC card has not been formatted properly	<ol style="list-style-type: none">1. Insert a microSD/microSDHC card2. Transfer the pictures from the scanner to the computer to create storage space in the memory card3. Please refer to section 5
"Scan Error" icon pops up on the LCD screen while scanning	Scanning speed is too quick	Rescan the document at a slower pace
"Scan Error" icon pops up on the LCD screen while scanning with the docking station	microSD/microSDHC class speed is low	Replace the original memory card with another higher class microSD/microSDHC card (Class 6 or above is recommended)
Computer does not recognize the scanner when connected (cannot find your device under removable disk)	Connection failure	<ol style="list-style-type: none">1. Make sure all cable connections are secure2. Restart the computer if necessary
Black & white stripes occur at the top or bottom of scanned document	Original skewed or inserted crookedly into the docking station	Align and rescan the document
Blurry images	<ol style="list-style-type: none">1. The lens of scanner is dirty2. Contact Image Sensor aged	<ol style="list-style-type: none">1. Clean the lens with a soft and dry cloth2. Recalibrate the scanner. Refer to section 4.5
Black Images/Black or white vertical lines	<ol style="list-style-type: none">1. Scanner sensor's protective glass is dirty2. Calibration data is off-set	<ol style="list-style-type: none">1. Clean the sensor's protective glass with clean and soft dry cloth.2. Recalibrate the scanner. Refer to section 4.5

NOTE: Model Number and Serial Number (S/N) is located on the packaging, instruction manual, or on the product. Please have this information ready before contacting customer support.

FCC (Federal Communications Commission)

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.

*Measured diagonally. Actual size is 1.48"; viewable area is 1.44"

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