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Read this first

Please read the following important safety instructions carefully before using this scanner. Failure to observe these instructions may result in personal injuries or damages to this scanner.

Important safety instructions

Do not place this scanner under direct sunlight or near heat sources, such as in a closed car under sunlight or near a stove. The outer casing of this scanner may become deformed and the sophisticated sensors inside may become damaged due to excessive heat.

Do not use this scanner near water, in the rain or allow any liquid to get inside this product. Water and moisture may cause short-circuit to the electronic components and lead to malfunctions.

Do not use this scanner in dusty environments. Dust grains may cover this scanner and scratch the original to be scanned. Do not scan originals that are contaminated by dusts or other particles.

Do not use this scanner near strong electromagnetic sources, such as a microwave oven or television. The electromagnetic interference may cause this scanner to malfunction.

Do not attempt to disassemble or modify this scanner. There are no user serviceable parts inside this scanner, and unauthorized modifications will void your warranty.

Do not drop or apply shock/vibration to this scanner. Strong impacts may damage the components inside.

Do not insert objects other than compatible memory cards into the memory card slots of this scanner. The metal contacts inside the slots can easily become damaged by foreign objects.
| ![Icon] | Do not use an unknown power adapter other than the one supplied with this scanner. Connecting this scanner to an unknown power adapter is very dangerous and may lead to fire or explosion. |
| ![Icon] | Do not cut, bend, modify, place heavy objects or step on the cable of the power adapter. Otherwise the external insulation may be damaged and result in short-circuit or fire. |
| ![Icon] | The power socket and USB port on this scanner are designed solely for connecting to the supplied power adapter and optional USB cable. Do not insert any other objects into these sockets. |
| ![Icon] | If there are strange odors or heat emitting from this scanner or any signs of malfunction, disconnect this scanner from the power immediately and contact your dealer for inspection or service. |

## Disclaimer

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Notes about copyrighted materials

Avoid scanning and re-distributing copyrighted originals and images or those of unknown sources. Doing so may violate your local copyright laws and related regulations. Veho Renovo cannot be made liable for the losses that may result from breaching the laws described above.

Disposal of this product

To help protect the environment, dispose of this scanner properly according to your local regulations regarding the disposal of waste products.
<Memo>
Introduction

Package contents

Check the sales package for the following items. If any item is missing or damaged, contact your place of purchase immediately.

- Photo scanner x 1
- Calibration card x 1
- Anti-curl sheath x 1
- Power adapter x 1
- User manual x 1
- USB cable x 1 (optional, depending on your region)
- Sensor cleaning swab x 1

Parts of the scanner and their functions

Front view

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Function/description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Status/card indicator</td>
<td>Indicates the operating status of the scanner and memory card. See &quot;Indicators&quot; on page 7.</td>
</tr>
<tr>
<td>2</td>
<td>Power button</td>
<td>Press this button to turn the power on or off.</td>
</tr>
<tr>
<td>3</td>
<td>Power indicator</td>
<td>Indicates the power status of the scanner. See &quot;Indicators&quot; on page 7.</td>
</tr>
<tr>
<td>4</td>
<td>Paper guide</td>
<td>Used to guide the original to ensure the alignment.</td>
</tr>
<tr>
<td>5</td>
<td>Feeding slot</td>
<td>Insert an original into this slot to begin scanning.</td>
</tr>
<tr>
<td>6</td>
<td>Orientation mark</td>
<td>Indicates the correct original orientation.</td>
</tr>
</tbody>
</table>
### Rear view

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Function/description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SD/xD/MMC/MS card slot</td>
<td>Accepts the following types of memory cards: SD, xD, MMC and MS. See &quot;Supported memory card types&quot; on page 15 for details.</td>
</tr>
<tr>
<td>2</td>
<td>Output slot</td>
<td>The scanned original comes out from this slot.</td>
</tr>
<tr>
<td>3</td>
<td>Mini USB socket</td>
<td>For connecting to a computer via a USB cable.</td>
</tr>
<tr>
<td>4</td>
<td>Power socket</td>
<td>For connecting to the supplied power adapter.</td>
</tr>
</tbody>
</table>
## Indicators

Please see below for the lighting patterns of the indicators and the meanings they represent.

![Indicators Diagram]

<table>
<thead>
<tr>
<th>Lighting patterns and their functional meanings</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="#" alt="Blinking slowly: Blinking slowly; Blinking rapidly: Steadily on; Off: Off" /></td>
<td>Scanning current original. Please wait until the process is complete before scanning another original.</td>
</tr>
<tr>
<td><img src="#" alt="Blinking rapidly: Blinking rapidly; Steadily on: Steadily on; Off: Off" /></td>
<td>The scanner is ready for use.</td>
</tr>
<tr>
<td><img src="#" alt="Steadily on: Steadily on; Off: Off" /></td>
<td>The scanner power is off.</td>
</tr>
<tr>
<td><img src="#" alt="Blinking slowly: Blinking slowly; Blinking rapidly: Blinking rapidly; Steadily on: Steadily on; Off: Off" /></td>
<td>Initializing system and memory card. Please wait until the initialization process is complete before using the scanner.</td>
</tr>
<tr>
<td><img src="#" alt="Blinking slowly: Blinking slowly; Blinking rapidly: Blinking rapidly; Steadily on: Steadily on; Off: Off" /></td>
<td>Busy storing image file. Please wait until the process is complete before scanning another original.</td>
</tr>
<tr>
<td><img src="#" alt="Blinking rapidly: Blinking rapidly; Steadily on: Steadily on; Off: Off" /></td>
<td>Paper jam. Please refer to page 22 to remove the paper jam.</td>
</tr>
<tr>
<td><img src="#" alt="Blinking slowly: Blinking slowly; Blinking rapidly: Blinking rapidly; Steadily on: Steadily on; Off: Off" /></td>
<td>No memory card, card full (free space below 1MB), card error or SD card locked. Please use another card, unlock the card or remove some files on the card.</td>
</tr>
</tbody>
</table>

- : Blinking slowly; : Blinking rapidly; : Steadily on; : Off
Using the scanner

Preparation

1. Peel off the tape that secures the guide lever.
   
   **NOTE:** This step is only required when you use the scanner for the first time.

2. Connect the plug on the power adapter cable to the power socket on the scanner.

3. Plug the power adapter into a power outlet.
   
   **NOTE:** The type of power plug and socket illustrated may differ from that of your region.

4. Insert an unlocked (writable) memory card into the memory card slot.
   
   **NOTE:**
   - Be sure to insert a memory card before scanning.
   - The scanner only accepts memory cards in FAT16 or FAT32 format. NTFS and other file formats are not supported.
5. Press the Power button. The Power indicator blinks.

- **NOTE**: For more information on the indicators, see "Indicators" on page 7.

6. Wait until the Power indicator stops blinking and then goes off. The Status/card indicator will light up instead, indicating that the scanner is ready.

- **NOTE**: Do not insert a photo into the feeding slot when the Power indicator is blinking. The photo will not be scanned.

---

**Making a scan**

1. With the side to be scanned facing upward and in correct orientation as indicated by the orientation mark, place one edge of the original on the scanner and adjust the guide lever so that the original aligns against the left side of the feeding slot.

   Insert the original into the feeding slot.

   **WARNING**: Do not scan glossy photos in humid environments (humidity higher than 70% RH). Otherwise the surface of the photo will become sticky and cause the scanner to jam.

2. The original will be fed into the slot and scanned automatically. The Power and Status/card indicators blink while scanning.

- **NOTE**: See "More information" on page 13 for how to insert photos and other types of originals.
3. When scanning is completed, the Power and Status/card indicators will keep blinking for a while, indicating that the scanner is processing the image and storing the file onto the memory card. Wait until the indicators stop blinking before inserting and scanning the next original.

⚠️ WARNING: 
Insert only one sheet at a time. Insert the next original only when the previous one is done. Otherwise the scanner will fail to function normally.

📝 NOTE:
• Do not remove the memory card or disconnect the power supply while the indicators are blinking.
• This scanner only supports output images in JPEG (.jpg) format, and the date/time attribute will not be added.
• For more information on how this scanner stores the scanned image files on the memory card, see "Orientation of the original and scanned image" on page 14.
• If the memory card is near full (lower than 1MB), the Status/card indicator blinks (see "Indicators" on page 7). Use another card or delete some files on it if necessary.

4. To turn off the scanner after all originals are scanned, press and hold the Power button for 1 second. The power indicator will blink and then go off. Now it is OK to disconnect the power and remove the memory card from the scanner.
Connecting the scanner to a computer

By connecting the scanner to a computer, you can access the scanned images on the memory card directly, or use the scanner as a memory card reader, so that you can freely copy, paste or delete files from or to the memory card using the computer.

System requirements (for computer)

- Operating system:
  Windows: Windows 2000, XP, Vista or later versions
  Macintosh: Mass Storage Class Mac OS 9.x or Mac OS X
- An available USB 1.1 or 2.0 port

Making connection

1. Connect one end of the USB cable (with a Mini USB connector) to the Mini USB socket on the scanner.

2. Turn on the computer, and connect the other end (with an A-type USB connector) of the USB cable to the USB port of the computer.

3. Insert a memory card into the memory card slot.

4. Follow steps 1 and 2 in "Preparation" on page 8 to connect the power.
5. Press the Power button. The Power indicator blinks.

   NOTE: For more information on the indicators, see "Indicators" on page 7.

6. The scanner will be recognized by the computer as a removable disk (Windows system). Now you are ready to view or edit the files on the memory card.

   NOTE: Do not remove the memory card while the computer is accessing the files on it.

7. To safely disconnect the scanner from the computer:
   **Windows systems**
   a. On Windows System Tray, click the hardware removal icon as indicated below.

   Hardware removal icon

   b. Click to select the Safely remove USB Mass Storage Device option that appears.

   c. When the following message displays on-screen, you can safely remove your hard disk.

   d. Unplug the scanner from your computer.
   **Macintosh systems**
   a. Click and drag the hard disk icon to Trash.
   b. Disconnect the scanner from your computer.
Suitable and unsuitable types of originals

This scanner is designed to obtain the best scanning results for the following types of originals:
• 3.5”x5” and 4”x6” photos
• Business cards

Do not use the following types of originals for scanning. Otherwise the scanner will malfunction, the original may become jammed in the slot or the image auto-cropping function will not work properly.

• Photos/business cards thicker than 1mm
• Photos/business cards with either side shorter than 55mm
• Photos/business cards with lots of black or dark colors
• Photos/business cards with dark colors surrounding the edges
• Transparencies (filmstrips, celluloids..., etc.)
• Printed images (pictures on newspapers, magazines..., etc.)
• Soft and thin materials (thin paper, cloth..., etc.)
• Photos/business cards that exceed the following acceptable size:

Length: 12 inches (304.8mm) *(standalone scanning)*

Width: 4.1 inches (105mm)
Orientation of the original and scanned image

Please refer to the illustrations below for the relationship between the orientation of the original when scanning and that of the scanned image when displayed on the computer screen.

NOTE: Scanning the same original in different orientations may produce scanned images that look slightly different in color tones and brightness. This is not a malfunction.

Cropping on scanned images

In order for the scanner to determine the correctness of the scanned image data, some cropping on the scanned image may occur. Please refer to the illustration below.

NOTE: When scanning darker originals (for example, a photo of the night sky), over-cropping may occur. Please insert the original in a different direction (orientation) and try again.
Using the anti-curl sheath

For your older, fragile photographs, we suggest to use the supplied anti-curl sheath before scanning. It also helps eliminate the possibility of de-focusing due to the uneven surface of the curled photos.

NOTE: To prevent the photos stuck in the sheath over time, please do not leave the photo in the anti-curl sheath after scanning.

Supported memory card types

- MS (MemoryStick)
- MS Pro
- MS Pro Duo (adapter required)
- MS Duo (adapter required)
- MMC (MultiMediaCard)
- RS-MMC (adapter required)
- xD (extreme Digital, H-type and M-type)
- SD (SecureDigital)
- Mini SD (adapter required)
- micro SD/T-Flash (adapter required)
**File naming and storage rules**

- If the memory card is used with the scanner for the first time, the scanner creates a folder named “FotoIMG” in the root directory to store the scanned image files. Each image file has a prefix “IMG_” followed by a 4-digit serial number in the sequence the image is stored.

- If the file name reaches IMG_9999.jpg in the “FotoIMG” folder, another new folder named “FotoIMG1” will automatically be created to store subsequent new files, and so on.

- If the memory card already contains folders created by the scanner, the scanner will store the images in the last folder created.

- There can be up to 10 folders (FotoIMG, FotoIMG1... FotoIMG9) on a memory card. If exceeded, delete some files on the memory card or use another one if necessary.
The Scan2PC Utility

Installing the Scan2PC Utility

System Requirements

Before installing the Scan2PC Utility, make sure that your computer is compatible with the following system requirements:

- Operating system: Windows 2000, XP, Vista or above
- Free hard disk space: 100MB

NOTE:
The Scan2PC Utility does not support Macintosh operating systems.

Performing Installation

To install the Scan2PC Utility:

1. Insert the Scan2PC Utility installation CD into the optical drive of your computer.

2. Locate the file named “scan2PC_V1.3.5.0.exe” on the CD, and double-click it.

3. Follow the on-screen instructions to complete the installation.

NOTE:
- Once installed, the Scan2PC Utility runs automatically upon PC startup, and the icon stays on the system tray.
- If you wish to close the Scan2PC Utility temporarily, right-click on the icon and select Exit.

Using the Scan2PC Utility

With the Scan2PC Utility, you can scan photos and transfer scanned images to the connected PC easily. You can also change the default location where the scanned images will be saved.

1. Refer to "Connecting the scanner to a computer" on page 11 to connect the scanner to the PC correctly, and then turn on the power of the scanner.
2. When the scanner is detected by the PC, the following Scan2PC Utility dialog will pop up automatically:

3. Now you can specify the location where the scanned images will be saved: on the memory card (Memory Card) or to a specific folder on the PC (Scan To PC). If Scan to PC is selected, the scanned images will be saved to the following location by default:

- **Windows 2000 and XP**: C:\Documents and Settings\(your username)\My Documents\My Pictures\Photo\
- **Windows Vista**: C:\Documents and Settings\(your username)\My Documents\Pictures\Photo\

You can also click the button to select a location you prefer.

4. Scan the original. The scanned images will be saved to the location you selected in step 3.

**NOTE:**
- If you wish to open the Scan2PC Utility dialog manually, double-click the icon on the Desktop, or right-click on the icon on the system tray and select Setting.

- Each scanned image file is given a name with the prefix "IMG" followed by a 4-digit serial number in the sequence the image is stored. For example, IMG0001.jpg, IMG0002.jpg... If the file name reaches IMG9999.jpg in the "Photo" folder, another new folder named "Photo1" will automatically be created to store subsequent new files, and so on.
Care and maintenance

Cleaning the scanner

In order to maintain the best image quality and prevent dust accumulation, please clean the outer casing and image sensor inside the scanner regularly (about every 50-100 scans, or whenever unwanted vertical/horizontal lines appear on the scanned image). When cleaning, use only the recommended and supplied tools.

⚠️ WARNING: Do not use any tools other than the supplied ones to clean the image sensor inside the scanner. Otherwise the image sensor will be permanently damaged.

Cleaning the outer casing

Please follow the instructions below to clean the outer casing of the scanner when necessary.

1. Use a suitable dust blower to blow off the dust on the scanner.

2. Use a slightly dampened cloth to wipe off any smear on the surface of the scanner.

3. Wipe the scanner with a dry and clean lint-free cloth.

⚠️ WARNING: Do not use any solvents or corrosive liquid (for example, alcohol, kerosene..., etc.) to clean any part of the scanner. Otherwise the plastic material will be permanently damaged.

Cleaning the image sensor

1. Follow the instructions above to clean the outer casing of the scanner first.

2. With the scanner power off and disconnected from the power supply, insert the sensor cleaning swab into one end of the output slot.

 NOTE: Make sure that there is no visible dust on the swab before inserting it into the output slot.
Calibrating the scanner

If the scanned image looks fuzzy or there are unwanted lines on it, then the scanner needs to be calibrated in order for the sensor to resume its original precision. To calibrate the scanner:

1. Follow the instructions on page 19 to clean the image sensor, and then follow the instructions in "Preparation" on page 8 to prepare the scanner for scanning.

2. Insert the calibration card as shown. The scanner will scan the pattern on the calibration card and perform calibration to the sensor inside automatically.

   NOTE: Make sure that the calibration card is inserted in the correct direction. Otherwise the calibration won’t work.

3. Gently slide the sensor cleaning swab to the other end of the output slot.

4. Repeat step 3 five or six times consecutively.

   NOTE: Do not apply too much force on the swab.

5. Slide the sensor cleaning swab to the left end of the output slot, and then remove it from the slot. Store the sensor cleaning swab in a safe place and keep it away from dust.
Storing the scanner

If the scanner will not be used for a prolonged period of time, follow the instructions below to store the scanner for future use.

1. Disconnect the scanner from power supply.

2. Place the scanner and power adapter in a box or bag to keep them from accumulation of dust.

3. Place it in a cool and dry place where inaccessible to small children.

After long-term storage, it is recommended that you clean and calibrate the scanner before use.
Troubleshooting

Problem: There are strange lines on the scanned image, or the image is not clear.
Solution: Please ensure the following:
- Are there scratches on the original, or is the original clean? Remove any stains or dust from the original before scanning.
- Has the scanner been used for a long period of time without cleaning and calibration? Refer to "Cleaning the scanner" on page 19 and "Calibrating the scanner" on page 20 to clean and calibrate the scanner and then try again.

Problem: The original gets stuck halfway in the feeding slot.
Solution: Press the Power button. The scanner will back out the original so you can remove the jammed original from the output slot.

Problem: The status indicator blinks rapidly and no scan is possible.
Solution: Check the following:
- Is the memory card inserted properly into the memory card slot? Re-insert the card and try again.
- Is the SD card locked (set to write-protect)? Unlock the card.
- Is the memory card full? The indicator blinks when the free space on the memory card is below 1MB. Use another card if necessary.
- Is the memory card in NTFS or other file formats? The scanner only accepts memory cards in FAT or FAT32 file format.
- Did you insert the next original before the scanning process of the previous one is completed? Power off and then on the scanner and try again. Make sure that you scan the next original only after the scanning process of the previous one is completed.
- Does the length of the original exceed the maximum acceptable size? Refer to "Suitable and unsuitable types of originals" on page 13 for more information.
Problem: The scanner feels warm to the touch.
Solution: It is normal for the scanner to emit a small amount of heat (around 30-45°C) after prolonged use. However, if there are strange odors coming out from the scanner or the scanner feels hot to the touch, disconnect the scanner immediately from the power supply or the computer.
## Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (approx. value)</td>
<td>157.4 (L) x 43 (H) x 54.5 (D) mm (scanner only)</td>
</tr>
<tr>
<td>Weight (approx. value)</td>
<td>230g (scanner only)</td>
</tr>
<tr>
<td>Supported memory card types</td>
<td>See &quot;Supported memory card types&quot; on page 15</td>
</tr>
<tr>
<td>Supported output image format</td>
<td>JPEG (.jpg)</td>
</tr>
<tr>
<td>USB port</td>
<td>USB or compatible with the USB 2.0 specification</td>
</tr>
<tr>
<td>Power input</td>
<td>100 - 240V AC, 50/60 Hz</td>
</tr>
<tr>
<td>Power output</td>
<td>6V DC, 1.5A</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>15°C ~ 35°C</td>
</tr>
<tr>
<td>Operating humidity</td>
<td>20% ~ 70% RH</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20°C ~ 60°C</td>
</tr>
<tr>
<td>Storage humidity</td>
<td>10% ~ 90% RH</td>
</tr>
</tbody>
</table>