PRECISE 100 QUICK REFERENCE
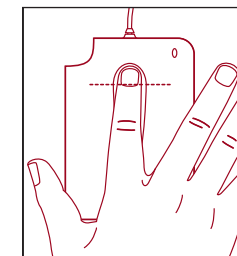
Using the Precise 100 Reader

General Information

The Precise 100 readers—*Precise 100 MC, Precise 100 SC, Precise 100 A, Precise 100 SC BioKeyboard, Precise 100 A BioKeyboard and Precise 100 PC-Card*—require the *Precise 100 Drivers* to be installed on the computer to work. See the "Installation of the Precise 100 reader" section for more information.
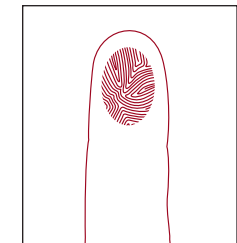
Correct Finger Placement

Ensure that the middle of the finger pad is placed in the center of the sensor because most of the fingerprint information is located here.

Perfectly placed finger

Capture area

1. Place the middle of the finger pad in the center of the sensor.
2. Position the cuticle level with the center line of the sensor; see the next figure.
3. Ensure that the fingertip touches the plastic cover just above the sensor.
4. Press the finger pad flat to the sensor with medium pressure.
5. Avoid rotating the finger.

Improving the Fingerprint Image Quality

If your fingers are very dry
- Breathe on your finger before putting it on the sensor.
- Press a little harder on the sensor.

If your fingers are very damp
- Wipe your finger on a piece of cloth before putting it on the sensor.
- Ease the pressure on the sensor a little.

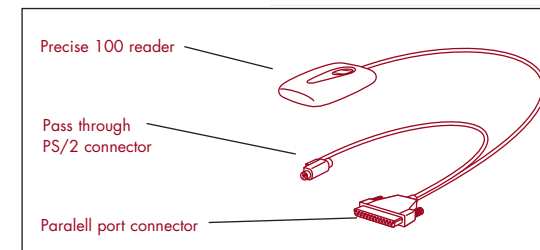## Maintaining the Precise 100 Reader

- Protect the Precise 100 reader from any kind of physical damage.
- Ensure that you are electrostatic discharged before putting the finger on the sensor. High electrostatic discharges might damage the fingerprint sensor.
- Keep the sensor surface clean or there is an increased risk that the fingerprint can't be successfully matched.
- If necessary, clean the surface with a clean cotton cloth. You can dampen the cloth slightly with a cleaner.
- Do not use paper tissues for cleaning purposes, because they may scratch the surface.
- Do not spray cleaner directly onto the fingerprint reader.
- Do NOT use chlorine-based cleaners, non-chlorine bleach, or chlorine-based bathroom or mildew cleaners.
- Do NOT use any solvents, such as acetone, paint thinners, turpentine etc.

Installation of the Precise 100 Reader

General Information

The Precise 100 readers require the *Precise 100 Drivers* to be installed on the computer to work. The *Precise 100 Driver Installation and Update* application is available for free downloading from Precise Biometrics' Web site, www.precisebiometrics.com/downloads*. The *Precise 100 Drivers* may also be bundled with an application that uses the Precise 100 reader.

The Precise 100 readers are available with three different computer interfaces, parallel, USB and PCMCIA. The parallel readers are powered through the PS/2 port. The USB readers are powered by the USB system. The PC-Card readers are powered through the PMCMCIA interface.

Precise 100 reader

Pass through PS/2 connector

Paralell port connector

System Requirements

- Minimum 200 Mhz Pentium processor.
- Parallel port supporting ECP, USB port or PCMCIA
- Microsoft Smart Card Base Components have to be installed if Windows 98, Windows ME or Windows NT is used.

* The *Precise 100 Driver Installation and Update* is also available on a CD.

Precise 100 readers work on these operating systems.

Operating system	Precise 100 MC	Precise 100 SC, Precise 100A, Precise 100 SC BioKeyboard and Precise 100 A BioKeyboard		Precise 100 PC-Card
	USB	USB	Parallel	PCMCIA
Windows® 98 OSR2	•	•		•
Windows® ME	•	•		•
Windows® NT 4.0 Service Pack 6			•	•
Windows® 2000	•	•	•	•
Windows® XP	•	•		•

Installation of a Precise100 Parallel Reader

1. Install the Precise 100 Drivers
Run the *Precise 100 Driver Installation and Update* application or follow installation instructions in the application that bundles the *Precise 100 Drivers*.
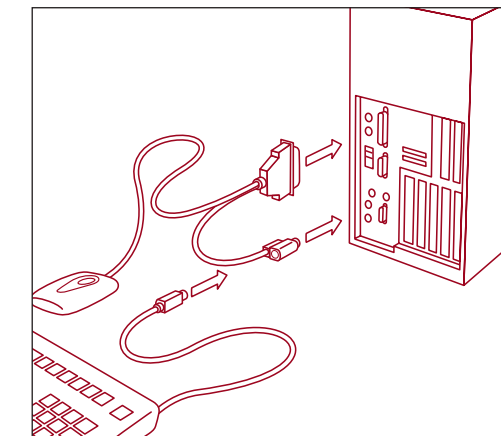
2. Set the parallel port
Note: Ensure that the parallel port is set to ECP mode before connecting the Precise 100 reader; otherwise, the reader won't work. If you don't know if your computer is in ECP mode (most new computers are), see the computer manual or follow these steps:

1. Access the system setup utility. On most computers, you press the F1, F10, Delete or Esc key during system booting, that is, immediately after the power switch on your computer is turned on. Keep pressing the key until the system setup, sometimes called the BIOS, appears.

2. Find the parallel port mode. Set the port mode to ECP (sometimes called Flexible mode). If you can't find the port mode, your computer is probably in ECP mode.

3. Save the changes and exit the system setup utility. If problems occur with the ECP settings, contact your computer retailer.

3. Connect the Precise 100 Reader
1. Ensure that the parallel port is in ECP mode; see step 2.
2. Turn off the computer.
3. Connect the Precise 100 reader to the parallel port on the computer.
4. Unplug the keyboard/mouse PS/2 connector from the keyboard or mouse port at the back of the computer.
5. Plug the pass-through PS/2 connector from the fingerprint reader into the keyboard/mouse port instead.
6. Connect the keyboard/mouse PS/2 connector to the pass-through PS/2 connector.
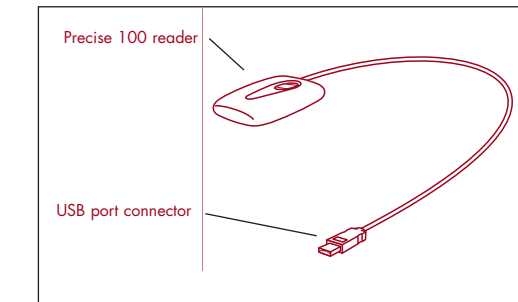
Installation of a Precise 100 USB Reader

1. Install the Precise 100 Drivers
Run the *Precise 100 Driver Installation and Update* application or follow installation instructions in the application that bundles the *Precise 100 Drivers*.

2. Connect the Precise 100 Reader
Connect the Precise 100 reader to the USB port on the computer and the Precise 100 reader will now work.

Precise 100 reader

USB port connector

General Information and Contacts

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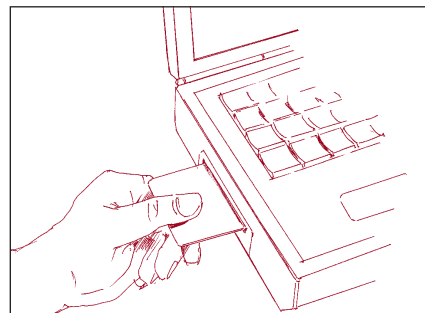
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Installation of a Precise 100 PC-Card Reader

1. Install the Precise 100 Drivers
Run the *Precise 100 Driver Installation and Update* application or follow installation instructions in the application that bundles the *Precise 100 Drivers*.

2. Insert the Precise 100 PC-Card reader
Insert the Precise 100 PC-Card reader into the PCMCIA slot in the computer and the Precise 100 PC-Card reader will now work.

Additional Precise 100 BioKeyboard Functions

Multimedia Functions

You can use the multimedia keys to access and control your Internet browser, Media Player, and more. You can also reconfigure the keys to perform other operations. To activate all the multimedia functions, you must install the enclosed Multimedia CD.
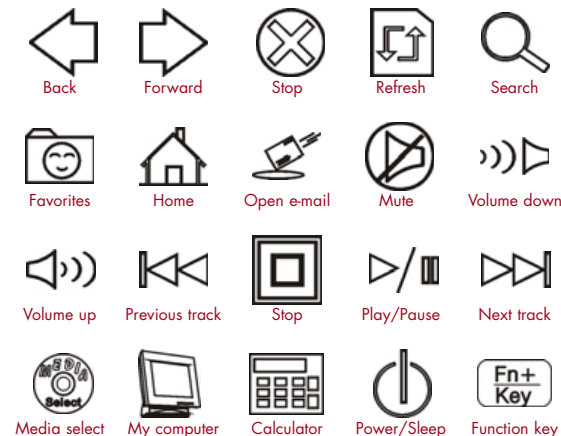
Supported Software
- Internet Explorer 4.0 or later
- Windows Media Player 6.0 or later
- Outlook 4.0 or later

Reconfigure Multimedia Key Functions

You can reconfigure the multimedia keys to start a program, open a Web site or open a file:

1. Double click the MediaKey icon in the taskbar.
2. Click on the key you want to reconfigure.
3. Configure the key, and select OK.

Default Multimedia Key Functions

Back	Forward	Stop	Refresh	Search
Favorites	Home	Open e-mail	Mute	Volume down
Volume up	Previous track	Stop	Play/Pause	Next track
Media select	My computer	Calculator	Power/Sleep	Function key

Product warranty information

Please be informed that this Precise 100 reader is covered by a limited product warranty pursuant to which this Precise 100 reader will be free from defects in design, materials and workmanship for a period of twelve (12) months from the time of delivery from Precise Biometrics to the Precise Biometrics partner from which you purchased this Precise 100 reader (the "Partner"). In case of a defect covered by the warranty, the defective unit shall be returned to the Partner, who will procure the the defective unit is repaired or replaced.

THE ABOVE PARAGRAPH IS AN EXTRACT OF THE STANDARD PRECISE BIOMETRICS LIMITED PRODUCT WARRANTY, AND SHALL NOT BE CONSIDERED OR CONSTRUED AS AN INDEPENDENT WARRANTY STATEMENT. FOR THE COMPLETE WARRANTY CONDITIONS, WARRANTY LIMITATIONS, CUSTOMER RESPONSIBILITIES AND OTHER TERMS AND CONDITIONS, PLEASE CONTACT THE PARTNER.

Electromagnetic Compatibility (EMC) Notices

Electromagnetic compatibility (EMC) is the ability of electronic equipment to function properly together in the electronic environment.

CE Notice (Europe)

The Precise 100 readers, Precise 100 MC, Precise 100 SC, Precise 100 A, Precise 100 SC BioKeyboard, Precise 100 A BioKeyboard and Precise 100 PC-Card meets the following technical standards:

• EN 55022:1994 Limit B (Radiated emission)
• EN 55024:1998 (Immunity of IT-equipment)

FCC Information (U.S.A.)

The Precise 100 MC, Precise 100 SC and Precise 100 A USB devices have been certified to the Class B digital device requirements as specified in the FCC rules and regulations (CFR47 Part 15 Subpart B).

The Precise 100 MC, Precise 100 SC and Precise 100 A USB devices 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.

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 in-stalled 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.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user´s authority to operate the equipment.

The Precise 100 SC BioKeyboard, Precise 100 A BioKeyboard and Precise 100 PC-Card 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

For Precise 100 A parallel reader: This device complies with part 15, subpart B, class B of the FCC rules demonstrated by complains with EN55022:1994, class B. 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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