

Multi Track

**Magnetic card reader
for Pocket PC series**

Pocket Checker™

Pocket PC software include!

For Mobile Computing

Be
Interactive

45520 3490 4034 99
2030 49

50 950 2109 0960



For
Pocket
PC



For
Handheld
PC

**Ideal for CompactFlash Slot
Pocket PC and Handheld PC**



ActiveChecker
CompactFlash Magnetic Stripe Reader

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1. Introduction

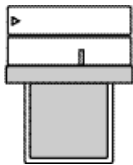
ActiveChecker card is an ultra- light weight, small size CompactFlash type magnetic card reader that reads not only various magnetic cards such as security cards, attendance card, and admission cards but also bank related card such as Visa, Master, and Banking card.

Linked with Pocket PC or notebook computers, it can authorize or process credit cards regardless of the time and location without external electronic power.

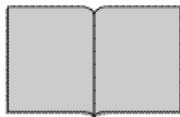


2. Package contents

ActiveChecker is composed of a ActiveChecker Card, User's guide, and Installation CD. Please check the contents. If there is any missing or damages, please contact to Purchasing place.



ActiveChecker



User's guide



Installation CD

3. Installation of ActiveChecker

Before install....

Please delete any MSR software you may already have installed on your computer. Also delete the PocketChecker task tray icon on the right bottom of Task bar.

This guide explain the installation and fuction of ActiveChecker based on the Pocket PC 2003. To develop application program using ActiveChecker, please refer to the SDK CD.

There is little bit difference compare to installation of Palmsize PC(WinCE 2.1x) and Handheld PC but basic procedure is almost the same. We supply drivers file for windows CE 3.0, Windows CE.net, HPC 2000 and want to know the applications, we'll supply SDK.

Sample source is included in SDK to develop application program using ActiveChecker.

If you make an easy to develop application program, please contact us. (SDK is included in the CD, but you'll need S/N)

** webmaster@beinteractive.co.kr

PocketChecker Task Tray Icons



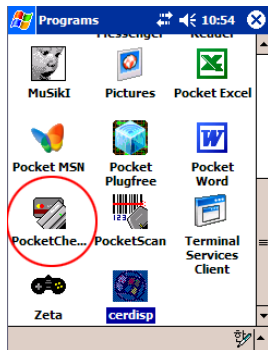
No card Detected



ActiveChecker card Detected (Active icon)

3-1. S/W Installation

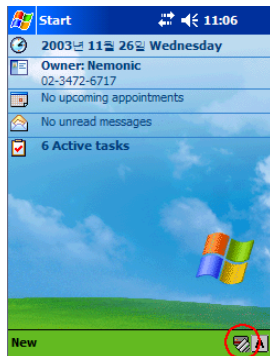
1. To install a driver software called “PocketChecker”, you must synchronize Pocket PC and your Desktop PC in advance.
2. After synchronization between two devices, insert CD.
3. If you double click setup.exe then PocketChecker will be started to install.
4. With message of “Application downloading computer” ActiveChecker program will be installed automatically.
5. You can find that ActiveChecker is installed on the “program” with **Pocket Checker icon.**



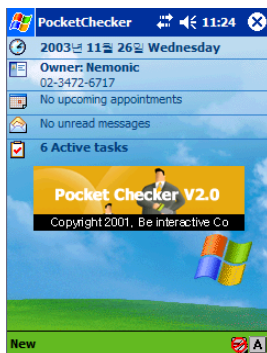
Pocket Checker™

3-2 Getting started

1. If PocketChecker program, “PocketChecker”, is already started then click the PocketChecker task tray icon on the right bottom of Task bar.

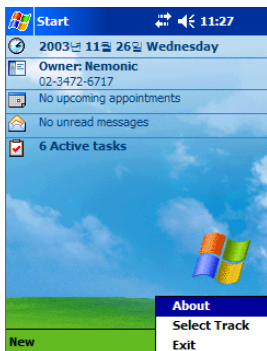


2. First, plug-in the ActiveChecker card into the CompactFlash slot on your mobile computer.
3. With sound of card recognition, “PocketChecker” logo will display and ActiveChecker icon will be replaced into the PocketChecker task tray icon (active icon) on the Task bar.

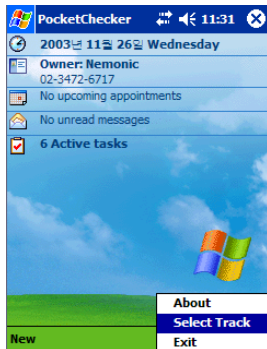


4. Option mode

- 4-1. If you click PocketChecker task tray icon on the Task Bar, “ About ”, “ Select Track ”and“ Exit ”menu will display to set the property of the ActiveChecker.

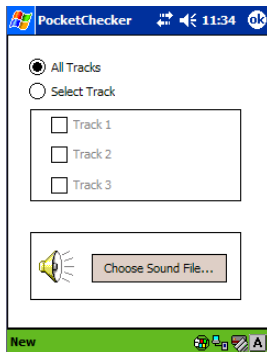


- 4-2. On this menu, “ Select Track ” consist of two fields which can control reading of the track and can setting sound of the confirmation after read card.



4-3. Select Track Option

1. If you select “ All Tracks ”, ActiveChecker is read all 3 tracks data.
2. However You can select “ Select Track ”, above setting screen will be displayed. ActiveChecker can read ISO standard select tracks.(Track 1, Track 2 and Track 3 support).



Information of each Tracks.

TRACK 1 - IATA / 210 bpi / 79 Alphanumeric Characters

Track 1 format was developed by the International Air Transport Association (IATA). This format contains alphanumeric information intended for the automation of airline industry activities.

TRACK 2 / ABA / 75 bpi / 40 Numeric Characters

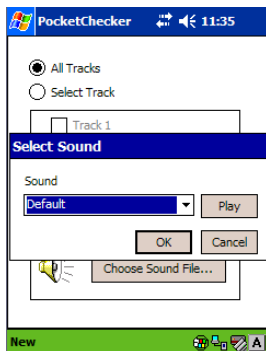
The data standard for Track 2 was developed by the American Bankers Association (ABA), and contains numeric information only. On a credit card, this track typically contains the cardholder's credit card number as embossed on the front of the card. The specification allows up to 40 digits. Each digit is 5 bits long, comprising a 4-bit BCD digit and a parity bit. The data is encoded at 75 bpi.

TRACK 3 / THRIFT / 210 bpi / 107 Numeric

The data standard for Track 3 was developed by the Thrift Industry, and contains numeric only information which may be re-recorded or updated when the card is used. There are many different uses and specifications for Track 3, so no details are shown here. The Track 3 specification allows up to 107 digits. Each digit is 5 bits long, a 4-bit BCD digit and a parity bit. The data is encoded at 210 bpi.

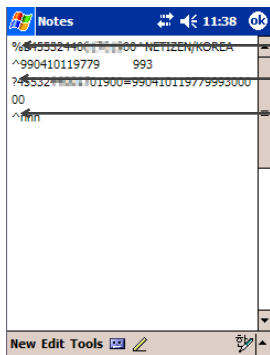
4-4. Sound Option

You can also choose sound on the menu of " Select Sound "After finished setting, please push " O.K " button to complete. This sound works after finished data input from card.



5. Test of ActiveChecker

5-1. To take a test, open a new notes clicking " Notes " on the Today Screen. ActiveChecker operate in a one way from left to right. Please try to stripe a card as below.



% 1 Track's detail

? 2 Track's detail

^ 3 Track's detail

ISO-1 Track : IATA

ISO-2 Track : ABA

ISO-3 Track : MINTS

Note) Please keep the operation direction and magnetic should be out side.

5-2. Plug-out ActiveChecker

To plug-out ActiveChecker, remove card slowly from CompactFlash slot then PocketChecker software will be turn into active icon. Do not remove during reading card. It could cause miss-operating.

6. Specification

6-1. Specification of ActiveChecker

Physical Characteristics	CompactFlash Type I Ext
Magnetic Card Standard	ISO/IEC 7811/2~5, ISO 4909, ISO/IEC 7813
Magnetic Ripple	50 mVp-p
Reading Track Width	1.5mm
Card Feeding Speed	53 ♪(typical)
Head Life Time	500,000 passes(min)
Power Consumption	Idle: 15 mA, Typical: 25 mA (3.3V)
CompactFlash Card Size	43 x 43 x 3.3 mm
Magnetic Size	23 x 55 x 25.5 mm
Humidity Operating	10% to 90%, non-condensing
Humidity Non-operating	10% to 95%, non-condensing
Weight	approx. 42 g

6-2. Specification of Reader 's Module

Dimension	22mm(W) x 43mm(D) x 23mm(H)
Weight	approx. 15 g
Power Supply	3.3VDC.
Magnetic Ripple	50 mVp-p
Operating Temperature	-25 ~ 60 , 20%~90% RH
Storage Temperature	-30 ~ 70 , 10%~90% RH
Humidity Operating	10% to 90%, non-condensing
Humidity Non-operating	10% to 95%, non-condensing
Operating Locus	Indoor Use
Vibration	Amplitude 2mm within 2G or Less, 10 ~ 50Hz X, Y, Z Directions for 30min
Shock	30G, 11m sec
Reading Methode	F2F
Operation Speed	ISO Low Speed : 10 ~ 15 cm / sec ISO High Speed : 80 ~ 120 cm / sec
Operation Direction	One Way
Error Rate	Less Than 0.1%

7. If you have trouble...

- 7-1. Does not recognize the PocketChecker (driver) on your mobile computer...
Please check your processor and OS with the driver. Sometimes, They are different each other.
Please reset the PocketChecker on your mobile computer and retry it.
- 7-2. When you read a card, it is not reading all 3 tracks with sign of“ ~ ”...
It is not recognize correctly. Please try again.
- 7-3. When you plug-in ActiveChecker, it is not working with message of
“Unknown card in Socket”
Please contact us.

8. Technical Support

- 8-1. If you have a technical problem while installing or using the ActiveChecker card. Please feel free to contact us.
- The Driver
 - Windows version of your mobile computer
 - SDK
- 8-2. If you are missed the CD. You can download the driver by www.beinteractive.co.kr/eng click “support”

You can contact Beinteractive the following ways ;

Web	www.beinteractive.co.kr
e-mail	webmaster@beinteractive.co.kr
Phone	82-2-3472-6715
Fax	82-2-3472-7133

**“ActiveChecker” Power saving MSR(Magnetic Stripe Reader)
for Pocket PC support various environment for security cards,
attendance card, admission card and Banking card.**

45520 3490 4034 99
2030 49

50 950 2109 0960

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