

CE FC



VOICEYE

PC-MATE VPC-100

User's Manual



www.voiceye.com

Compatible with



adi&c
AD Information & Communications



The content of this manual is subject to change without notice. It is the sole responsibility of the user to abide by any related or implied copyright laws.

No part of this manual may be reproduced or copied, in any form or by any means, without the prior written permission of AD Information & Communications Co., Ltd.

All the names of the companies and/or products mentioned in this manual are either the registered trademarks or brand names of their lawful owners.

Copyright © 2005 AD Information & Communications

All rights reserved

The content of this manual and VOICEYE Reader program are protected by copyright laws and the intellectual property laws.

VOICEYE's original 2D barcode technology makes it free from copyright infringement since it offers protection of intellectual property.

Any those texts that are reserved by copyright may not be copied as they are protected as intellectual property.

Contents



Chapter 1

1. Introduction
2. Features
3. Safety Precautions
4. Components
5. Product and Function
6. Hardware Specifications
7. System Requirements



Chapter 2

Connection and Installation

1. VOICEYE Reader Installation
2. NWC Player Installation
3. TTS Engine Installation
4. Hardware Installation
5. Driver Installation



Chapter 3

Quick Guide to using the VOICEYE PC-Mate

1. Getting started with the VOICEYE Reader
2. Detailed Description by Menu
3. Basic Operation



Appendix

Basic Shortcut Keys

How to Use VOICEYE Note Template

Regulatory Information

Warranty

Chapter 1

1

Introduction

VOICEYE PC-Mate is an innovative reading device for computers, powered by a unique, sophisticated 2D barcode technology that uses a TTS engine to access printed material.

This revolutionary reading solution offers a wide range of applications, both for disabled and for non-disabled people, at home, as well as in fields like education, government, and business.

VOICEYE Scanner captures the VOICEYE symbol that consists of encoded and compressed digital text information together with its corresponding file and transfers the text data to your PC.

2

Features


VOICEYE PC-Mate enhances your reading ability by giving you the following features and advantages:

- **Universal and versatile features** fit many categoriesReal-time TTS player, magnifier, music player, educational aids such as training for dyslexia and foreign language study, phonological training, etc.
- **Bi-modal reading approach:** displays words on the screen as they are spoken for easy following, and supports bi-modal auditory and visual education for all ages.
- **Highly customized solution:** flexible, convenient, and remarkably easy to use. The user can configure the TTS setting to hear specific letters as he or she designates.
- **Digital data processing:** eliminates the restrictions of analog type of OCR (Optical Character Recognition) technology, such as high error ratio, high price, etc.
- **No special hardware** is required, except the VOICEYE Scanner, which can be purchased at a low cost
- **A wide array of flexible options on your screen:** allows you to customize the appearance of text on your screen, including text font, font size, font/background color
- **Auto store function** retains a history of the last ten files, which can be scanned for easy review.
- **Section auto repeat playback:** perfect for language study. The word or sentence which you drag with the mouse is read aloud continuously and repeatedly unless you press the corresponding key to stop.
- **Variable speech speed control** to suit specific preferences and purposes: useful in effective phonological training. Speech speed can be controlled in a range of 25 - 400%.
- **Auto scroll:** The texts are automatically scrolled for your reading convenience when you want to read texts without the computerized voice.

- **Auto capture:** captures the VOICEYE symbol automatically, without the push of a button. The VOICEYE Scanner scans symbols in seconds - even inverted VOICEYE symbols.


3 Safety Precautions

- Install this product after reading this user's manual thoroughly.
- Connect the VOICEYE Scanner to your PC after installing software.
- Do not pull or bend the USB cable as this may cause a product malfunction.
- Do not touch the lens. Use a soft cloth or swab to clean the lens.

 This icon indicates materials you should take special notice of.

4 Components



 Please make sure that every component of the product is included.

5 Product and Function

● Hardware	
VOICEYE Scanner	to capture VOICEYE symbol data from printed material
PC Connector	to convert VOICEYE image scanned with VOICEYE Scanner to digital data and transfer it to PC via USB connection
USB cable	to supply electric power to PC and transfer VOICEYE image captured with VOICEYE Scanner to PC.

● Software	
VOICEYE Maker	to create VOICEYE symbol
VOICEYE Reader	to display and magnify texts on screen after decoding VOICEYE symbol, which has then been transferred to PC, and read them aloud.
Text-To-Speech engine	to convert text data into a natural-sounding computerized voice
VOICEYE Scanner driver	To capture the VOICEYE symbol

● Others	
User's Guide	to explain how to install and use the product
VOICEYE Note Template (Optional)	to help the blind find the location of the VOICEYE symbol easily



This product must be used with computer that supports **USB 2.0**. Please make sure that your computer meets this condition.

6 Hardware Specifications

Dimension	43 x 48 x 67 mm, 1.7" x 1.9" x 2.6"
Weight	80g, 0.18 lbs
Image Sensor	1/2 inch CMOS Color SXGA sensor
Color	24bit RGB Color
Pixel Array Size	1280 x 1024 pixels
Exposure	Automatic & Manual Control
Signal Noise Ratio	54 dB
Max. Image Transfer Rate	15 FPS (Frame Per Sec)
Interface	USB 2.0
USB Cable Length	1.2 m, 3.9'

※ Under our policy of continuous improvement, we reserve the right to change specifications and designs without prior notice.

7 System Requirements

OS	Windows 2000/2003/XP
CPU	Pentium II, minimum of 500 MHz
RAM	64Mb - 128Mb
DB	200Mb - 500Mb
Interface	High Speed USB 2.0
Power	PC USB port support

Chapter 2

Connection and Installation

- ▲ 1) Insert the installation CD into your computer's CD-ROM drive.
- 2) Next, connect the USB port of VOICEYE Scanner to your PC using the provided USB cable.

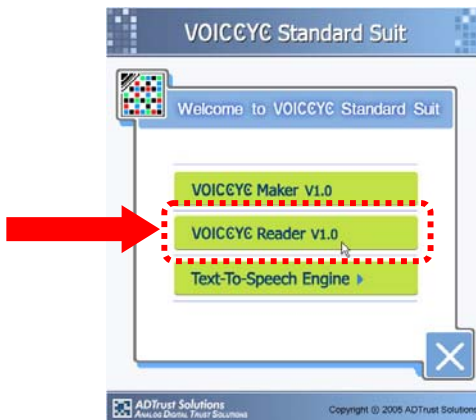
1 VOICEYE Reader Installation

- 1) After your computer automatically launches the installation CD, click **VOICEYE Reader**.
- 2) When the installation is complete, Start > Program > VOICEYE > VOICEYE Reader program group is created.

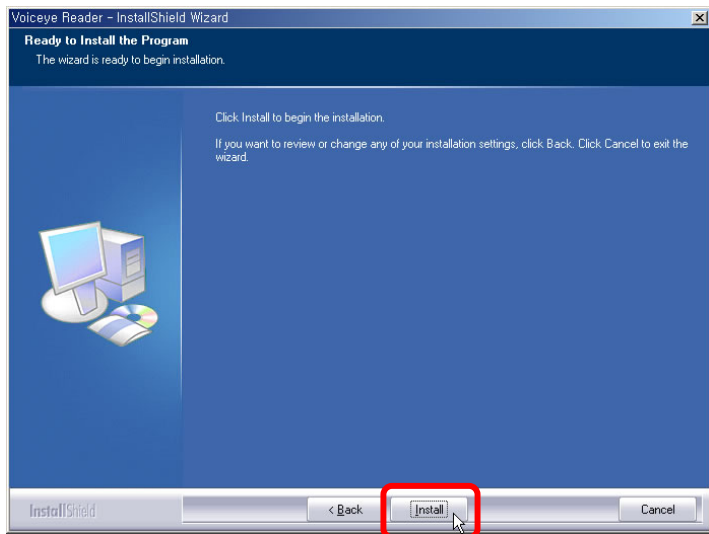
▲ If your computer doesn't automatically launch the CD, start Setup manually. It may not start automatically depending on your Windows settings.

In this case, run x:\setup.exe or x:\VOICEYE Reader\setup.exe. (where x is the letter of your CD-ROM drive)

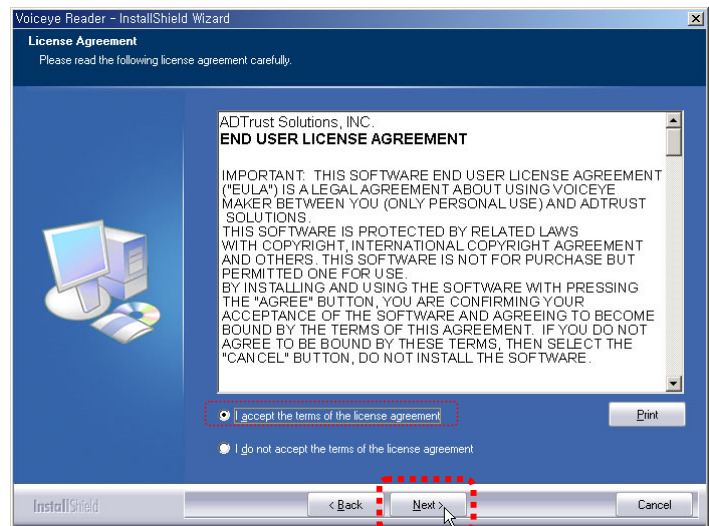
1 When you insert the CD into CD-ROM drive, the **Welcome to VOICEYE Standard Suit** screen will appear. Click **VOICEYE Reader**.



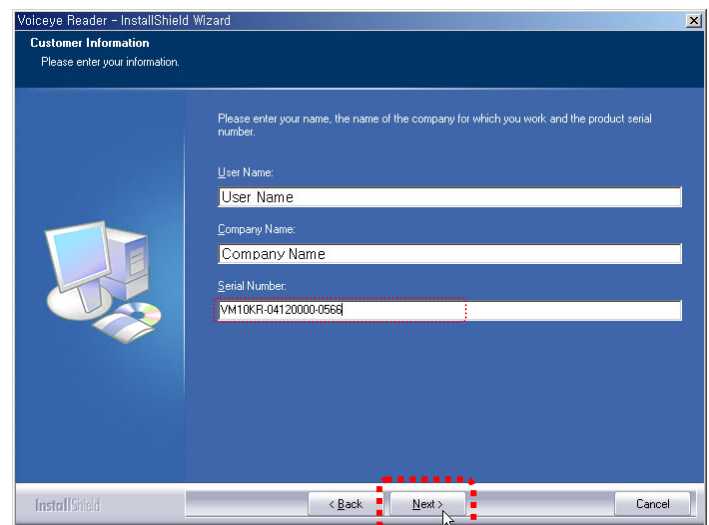
2 Click **Install** to start.



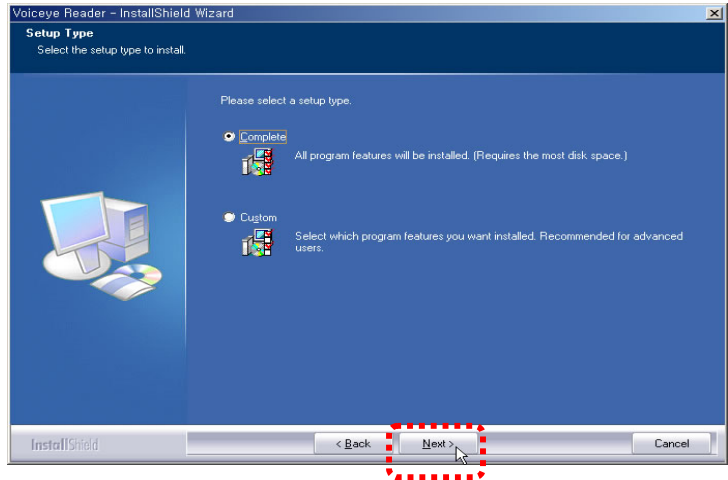
3 Review the license agreement and, if you agree, accept it and click **Next**.



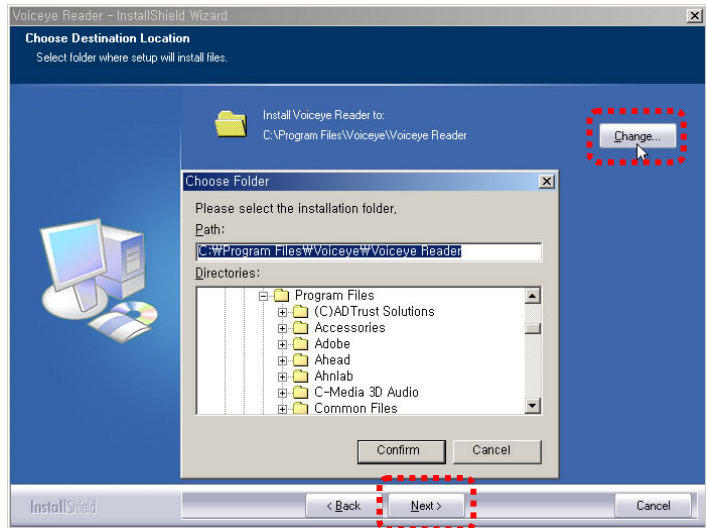
4 Confirm user name and company name, and click **Next**.



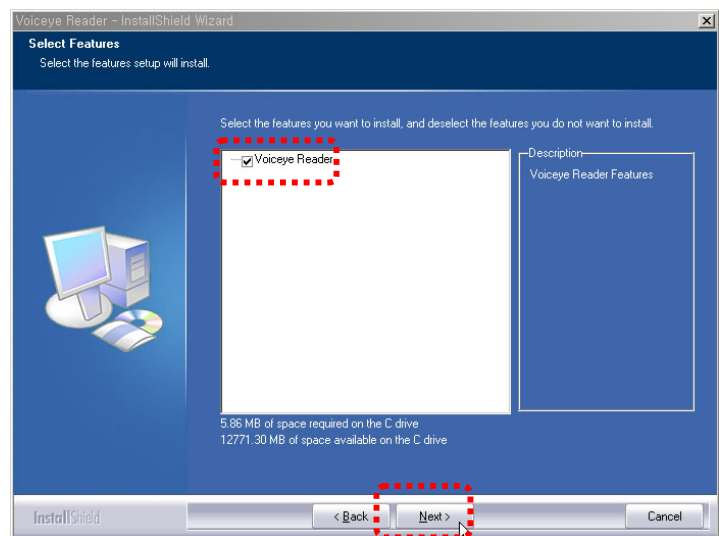
5 Select setup type. Select **Complete** to advance to no. 6, or **Custom** to advance to no. 5-1 and no. 5-2.



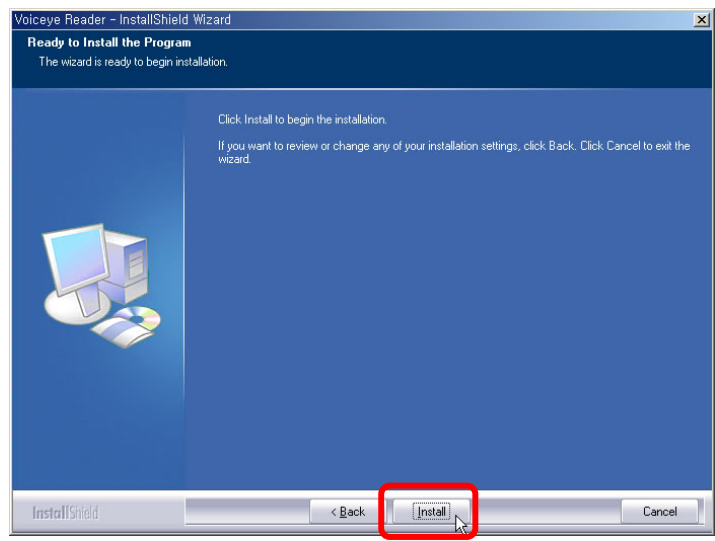
5-1 To change the folder, click the **Change** button and select the folder you want. When you're finished, press **Confirm** and then **Next**.



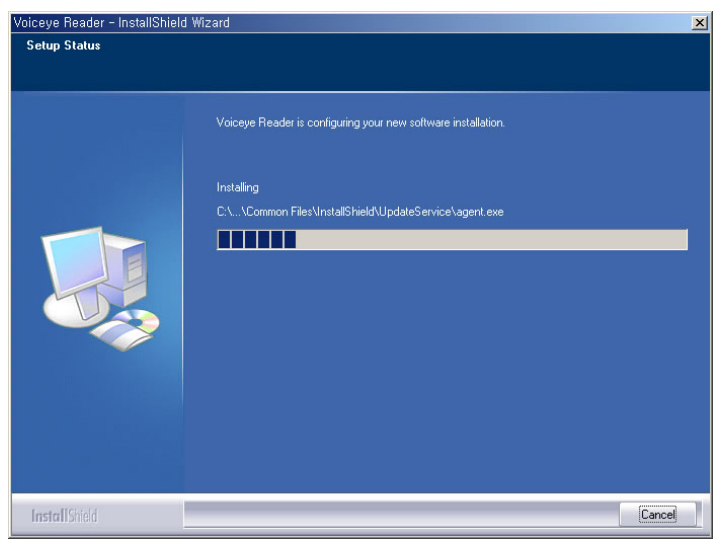
5-2 Click **Next**.



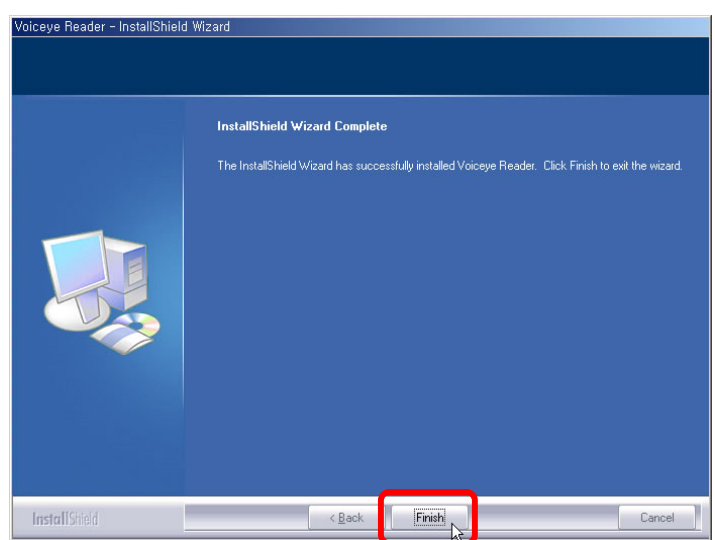
6 The wizard is now ready to begin installing. Click **Install** to start.



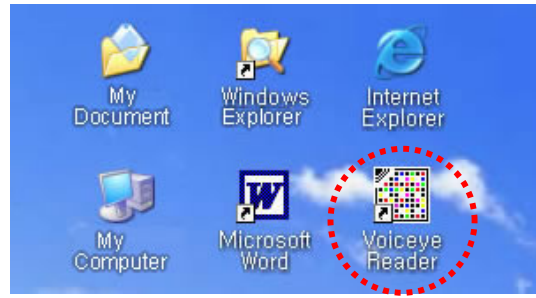
7 The setup status window appears and shows the progress of installation.



8 Click **Finish** to complete installation.



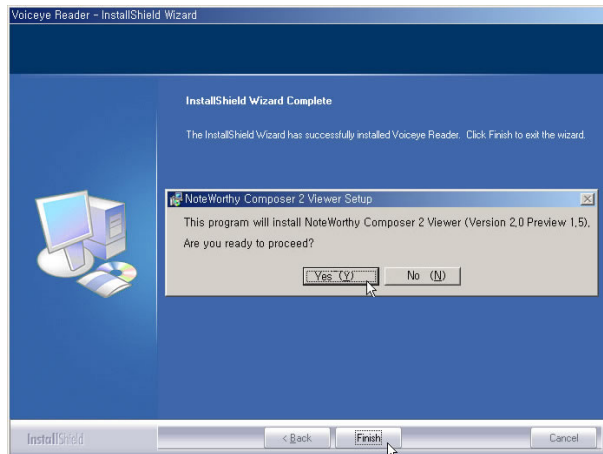
9 The installation is now completed. The installation program automatically places a color barcode shaped icon, **VOICEYE Reader**, on the desktop screen.



2 NWC Player Installation

After you install VOICEYE Reader, you are asked to install the NWC Player. You need to install this in order to play the music encoded in a VOICEYE symbol.

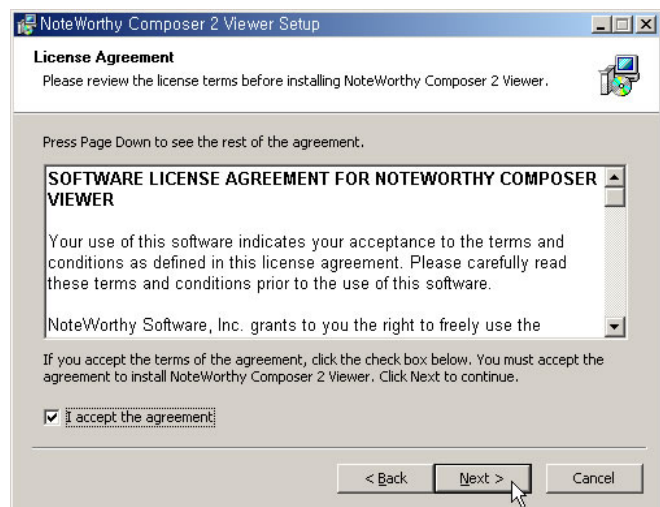
1 Click **Yes** to install NWC Player. You can also install it by double-clicking the file named **setup_nwc2vwr_p1_5** from the Tools menu on the CD.



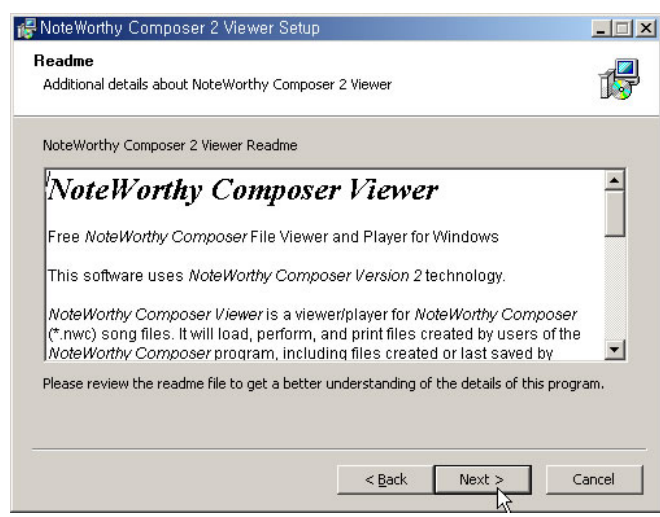
2 NoteWorthyComposer 2 Viewer Setup Wizard will be started. Click **Next**.



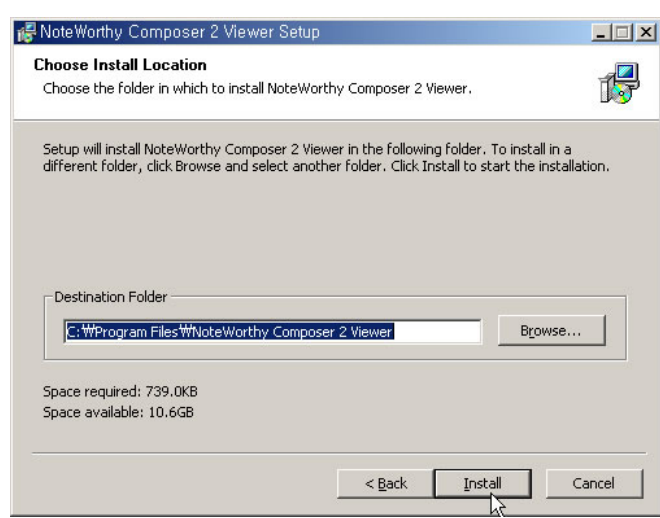
3 Review the license agreement and, if you agree it, accept it and click **Next**.



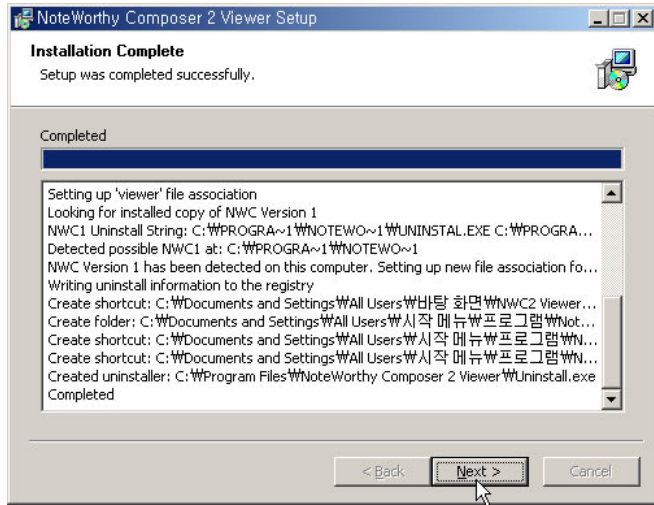
4 Review the details of this program and click **Next**.



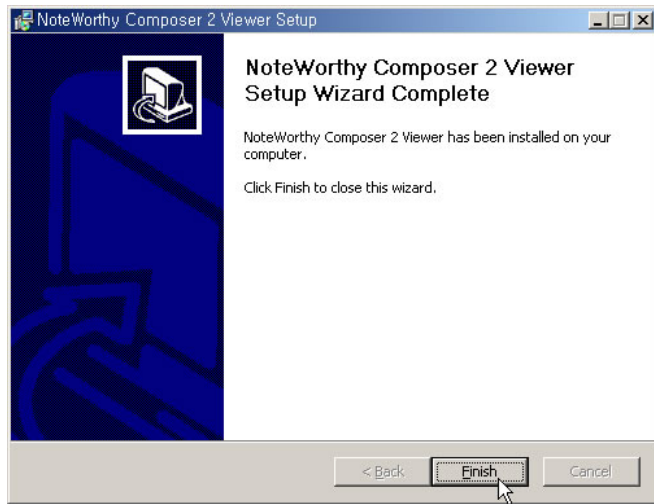
5 To change the folder, click the **Browse** button and select the folder where you want to install the program. When you're finished, click **Install**.



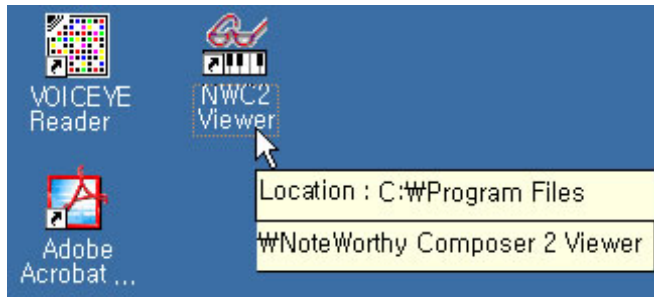
6 The setup status appears. When finished, click **Next**.



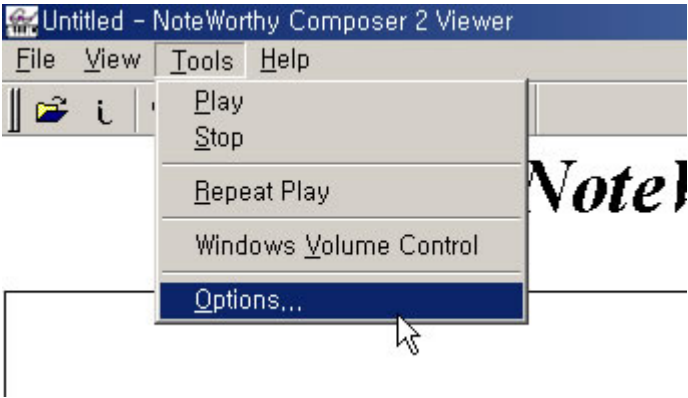
7 Click **Finish** to complete installation.



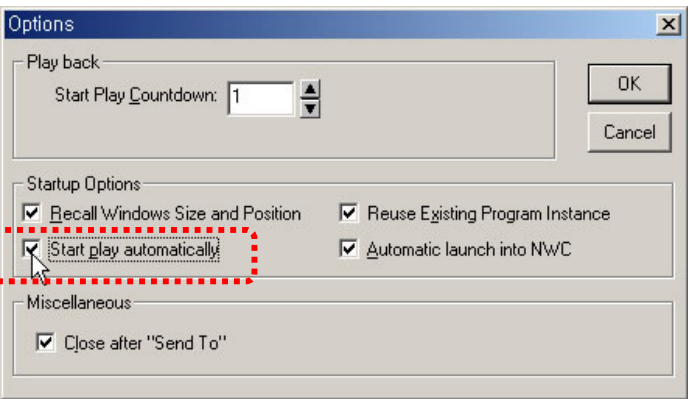
8 The installation program automatically places an icon for NWC2 Viewer on the desktop screen. Double-click the NWC2 Viewer icon.



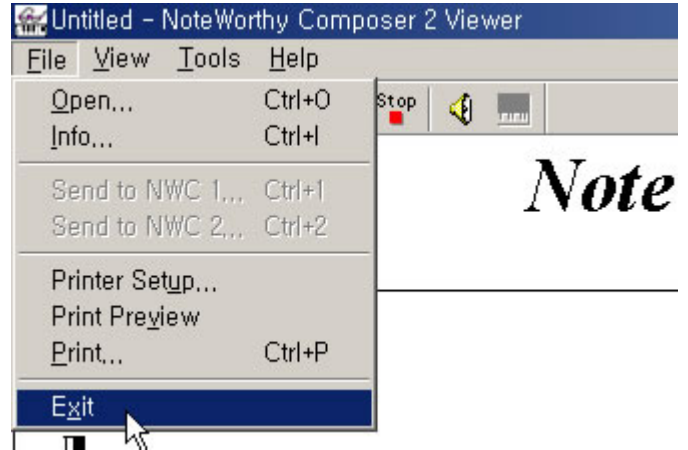
9 NoteWorthy Composer 2 Viewer will appear.
On the **Tools** menu, click **Options**.



10 Check the **Start play automatically** box, and then click **OK**.



11 Exit the NoteWorthy Composer 2 Viewer.
You have successfully installed the NWC Player.



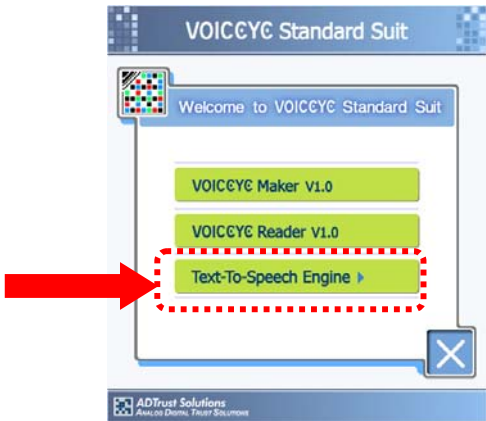
Now, go to the **Welcome to VOICEYE Standard Suit** again to install Text- to-Speech Engine.

3 TTS Engine Installation

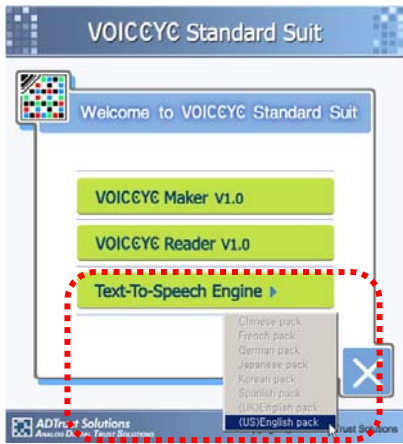
To read the text aloud, you must install the TTS engine.

If you already have the TTS Engine on your computer, you don't need to install the TTS Engine again. However, we recommend strongly that you use our TTS engine, which is well suited with our VOICEYE products.

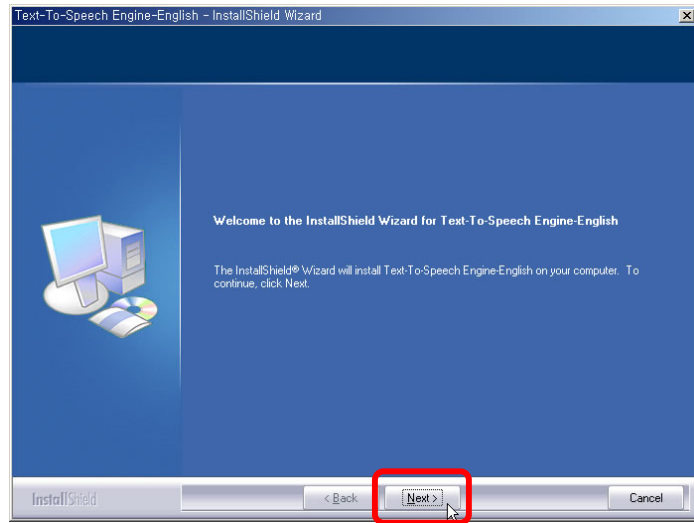
1 On the Welcome screen, click **TTS Engine**.



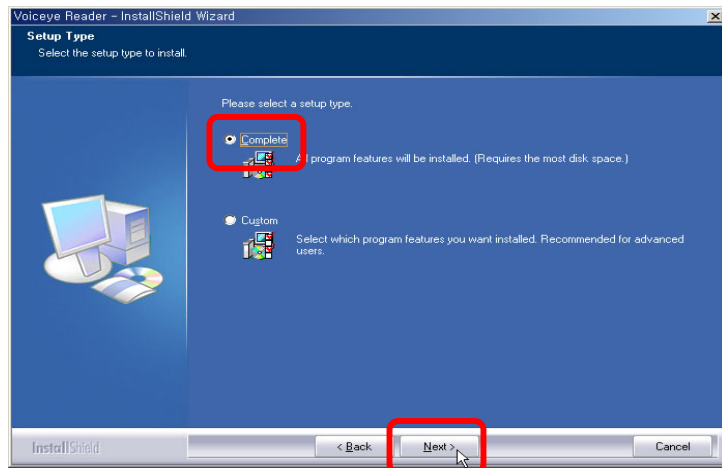
2 Select the language pack from the drop-down menu.



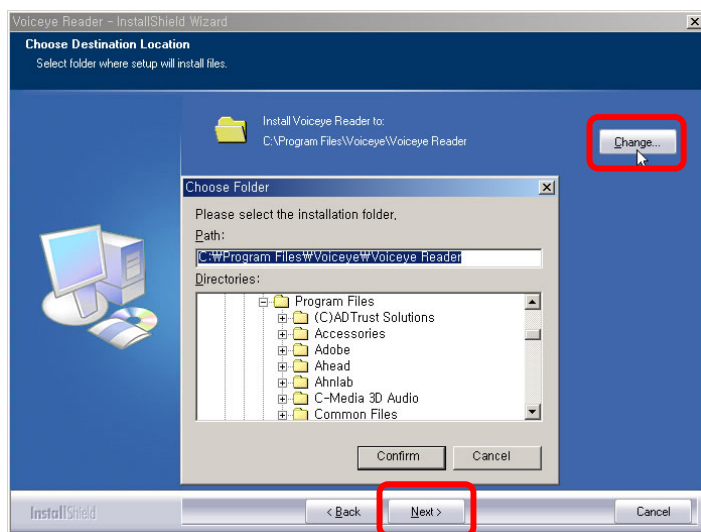
3 Click **Next** to start.



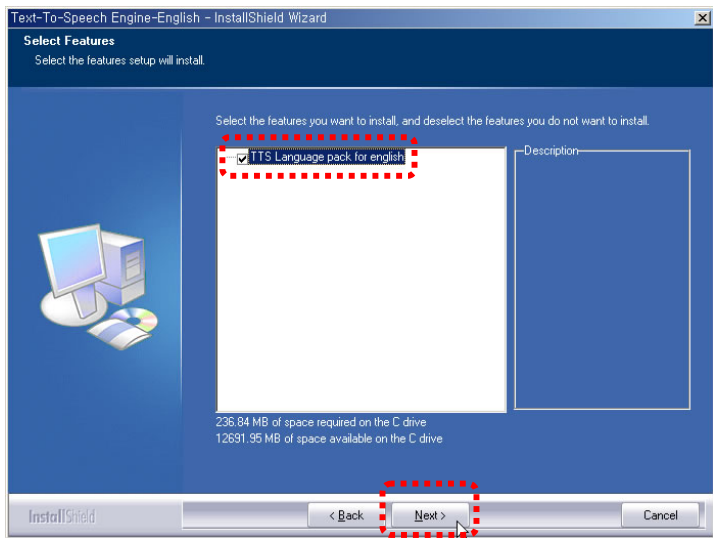
4 Select setup type. Select **Complete** to advance to no. 5, or **Custom** to advance to no. 4-1 and no. 4-2.



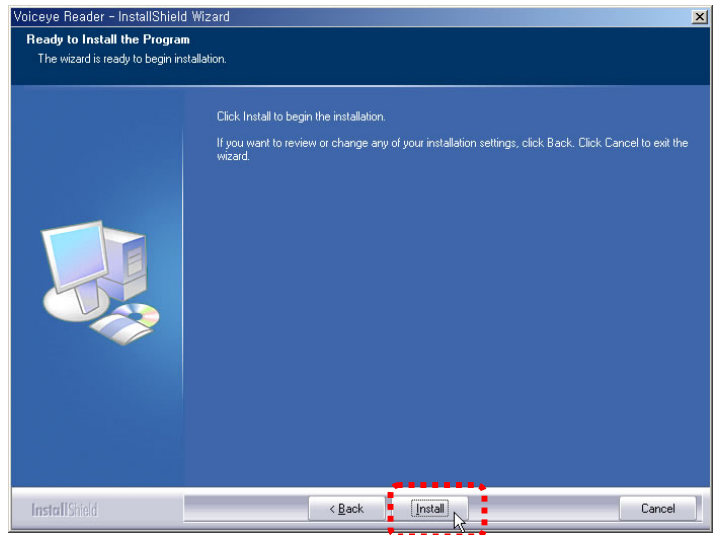
4-1 To change the folder, click the **Change** button and select the folder you want. When you're finished, press **Confirm** and then **Next**.



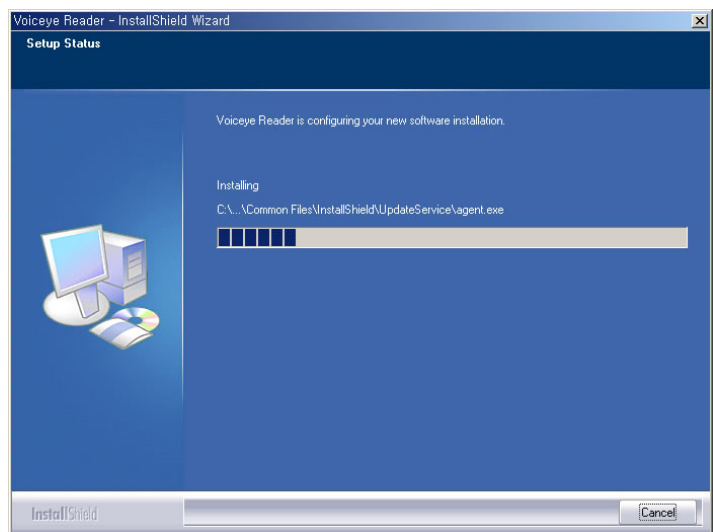
4-2 Click **Next**.



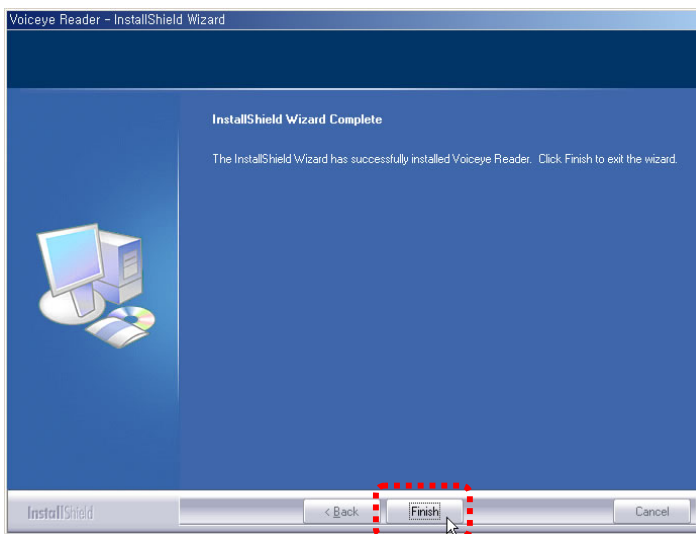
5 The wizard is now ready to begin installing. Click **Install** to start.



6 The setup status window appears and shows the progress of installation.



7 Click **Finish** to complete installation.



You are now ready to connect VOICEYE Scanner to your PC. (Don't run VOICEYE Reader at this time.)

4 **Hardware Installation**

Connect the USB port of VOICEYE Scanner to your PC using the provided USB cable.

1 Insert the VOICEYE Scanner cable into the PC connector.



2 Connect the PC Connector to the USB cable.



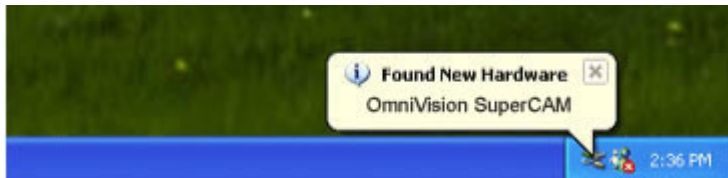
3 Insert the USB cable into the USB port of your computer.

When the VOICEEYE Scanner is connected to the PC via a USB connection, it will beep at the same time as the power display lamp of the Scanner turns yellow.

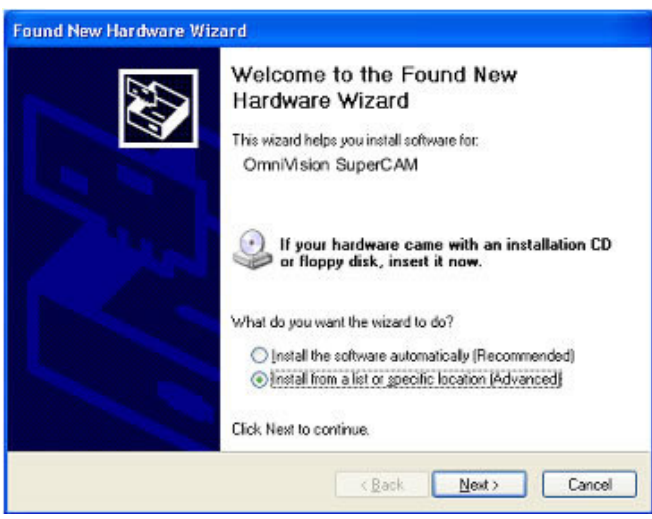


5 Driver Installation

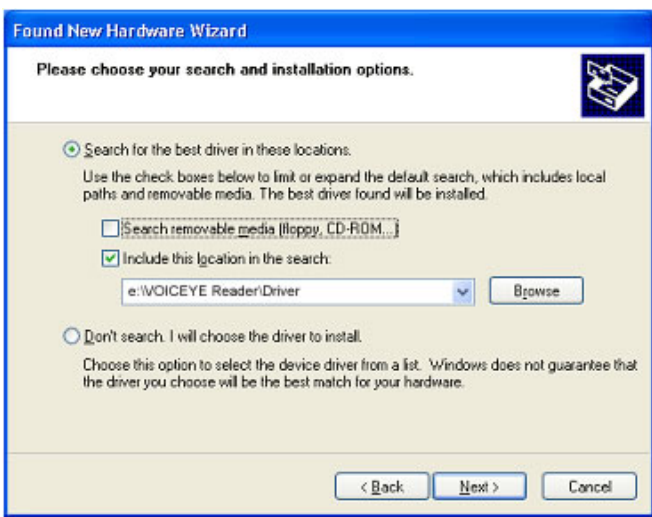
As soon as the USB port of VOICEEYE Scanner is connected to your PC using the provided USB cable, **"Found New Hardware"** will be prompted.



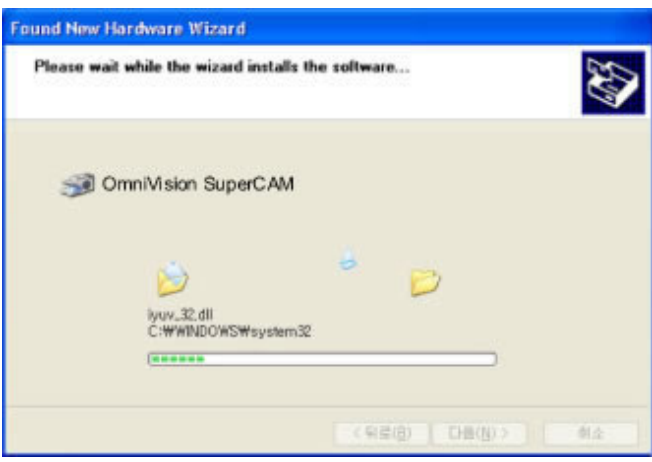
1 Select **“Install from a list or specific location (Advanced)”**, and click **Next**.



2 Check **“Search for the best driver in these locations”** and **“Include the location in the search”**, and click **Browse**. From the **“Browse”** window, select **E:\VOICEYE Reader\Driver**. Click **Next**.
 ※ The E:\ drive shown in the illustration is an example, and it may be different from the CD drive name used by your PC.



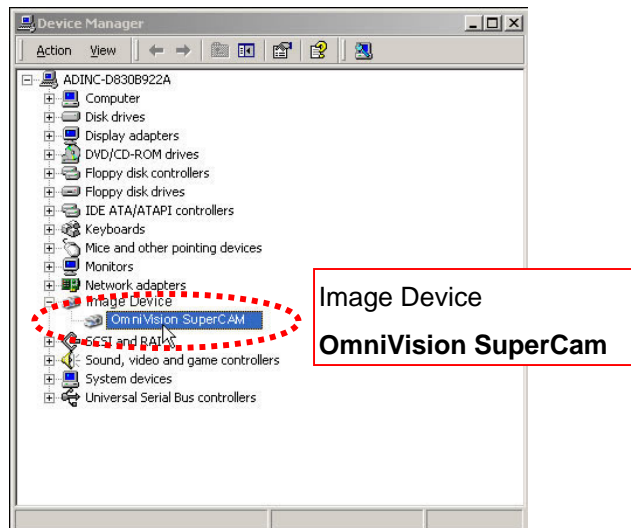
3 The driver is being installed. The progress of installation is shown.



4 The driver files are copied and installed from the Installation CD. When the installation finishes, a message notifying you of its completion appears as shown in the picture. Click **Finish** to complete the installation.



5 The driver installation message may not appear on the screen depending on the status of Windows. To make sure that the installation was completed normally, check for the device, "OmniVision SuperCam" in "My Computer" as shown below, or "Control Panel > System > Hardware > Device Manager".



The entire setup process has been successfully completed. You are now ready to use the VOICEYE PC-Mate.

Chapter 3

Quick Guide to Using VOICEYE PC-Mate

1 Getting started with the VOICEYE Reader

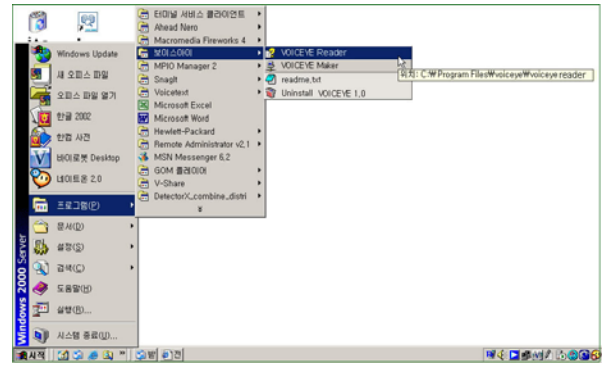
To start VOICEYE Reader, do one of the followings.

Double-click the VOICEYE Reader icon on your desktop screen.

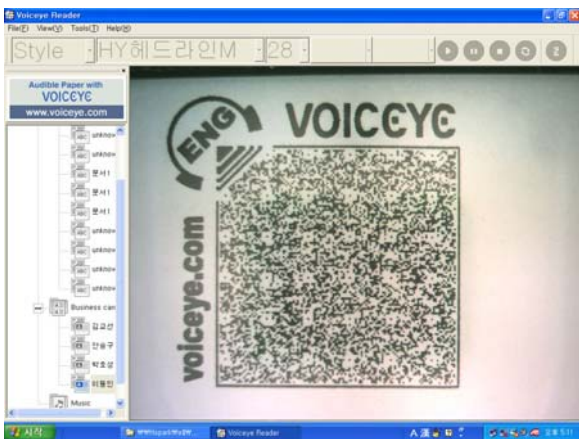


or

Click **Start** on Windows Taskbar > All Programs > VOICEYE > VOICEYE Reader.



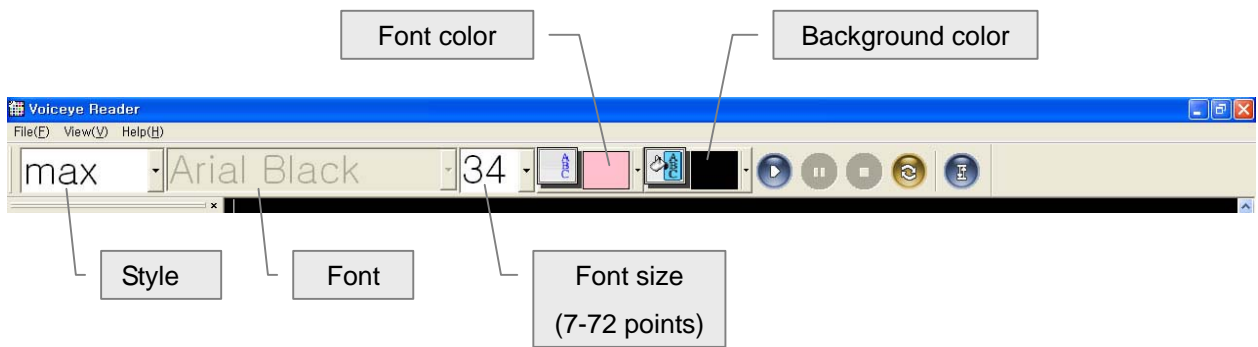
The whole view : The following screen will appear when you place the VOICEYE Scanner on a VOICEYE Symbol.



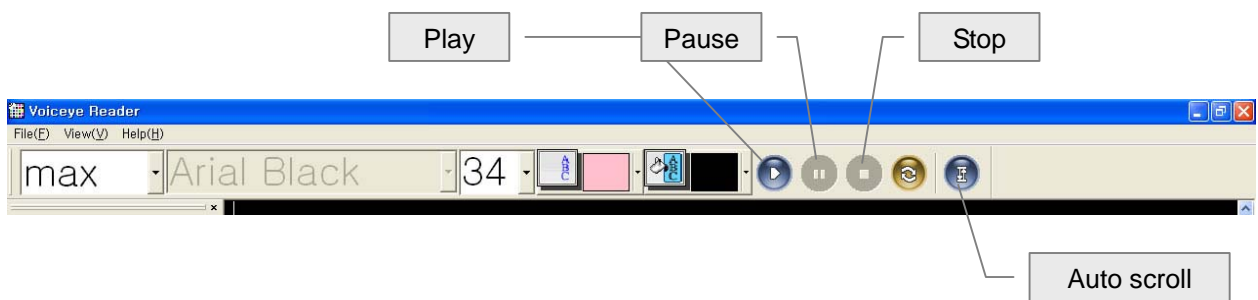
2 Detailed descriptions by menu

Taskbar

1) View Management Section



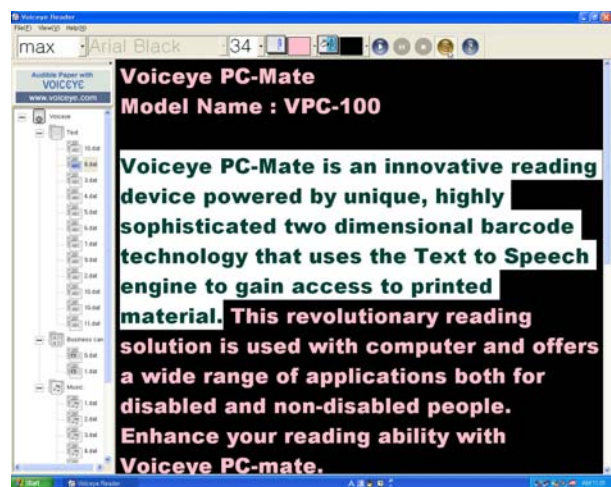
2) Player Section



Section auto repeat

The word or sentence which you drag with the mouse is read aloud continuously and repeatedly unless you press the corresponding key to stop.

- To set Auto repeat, drag the word/sentence that you want to adjust with your mouse and then simply press **the auto repeat button** on the taskbar or press the **R** key.
- This audio block starts to play repeatedly. When you wish to release this feature, press the **R** key again.



Auto scroll

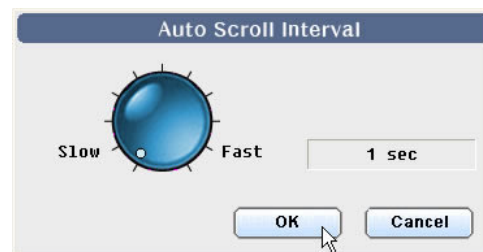
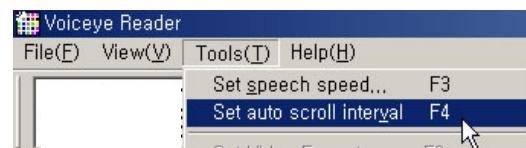
The texts are automatically scrolled for your reading convenience of reading when you want to read texts without the computerized voice.

- Click **the auto scroll icon** to set or release the setting.
- Auto Scroll Speed Control
 - ❶ Tools > **Set auto scroll interval** or click **F4**
 - ❷ Control the speed with **Up/Down Keys**.
 - ※ The default speed is 2 seconds.
 - ❸ Click **OK**.

Auto Scroll Setting



Auto Scroll Speed Control



Auto store function

The VOICEYE Reader program includes features for auto store function, which enables you to retain a history of the last ten files decoded for easy review. By double-clicking the file you want, the corresponding texts are spoken as they are displayed.

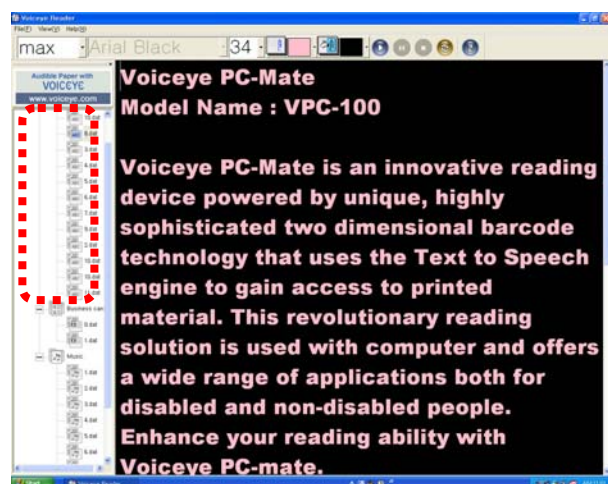
The folder consists of Text, Business Card and Music.

Press **Ctrl + Shift + T** to go to Text folder.

Press **Ctrl + Shift + B** to go to Business Card folder.

Press **Ctrl + Shift + M** to go to Music folder.

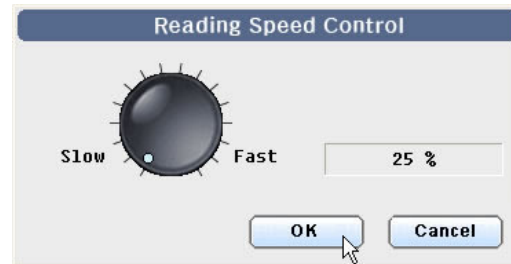
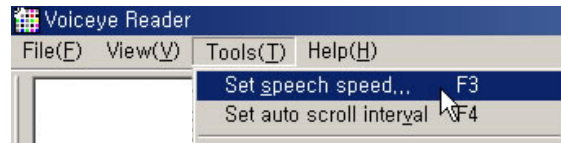
After selecting folder, press **Ctrl + F1 to F10** to see the contents of the ten files. These are retained in the order they were saved.



Speech speed control

To suit specific preferences and purposes. This function is useful in effective phonological training. Speed can be adjusted between 25 and 400%.

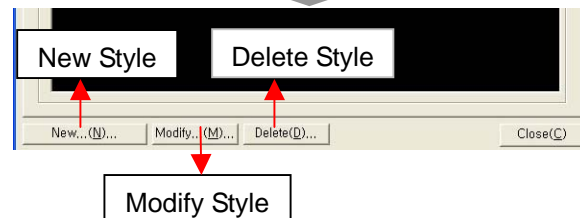
- ❶ Tools > **Set speech speed** or click **F3**.
- ❷ Control with **Up/Down Keys** or mouse.
- ✳ **The default speed is 100%.**
- ❸ Click **OK**.



Styles and Formatting

Create your own style with your favorite font, font color, font size, etc.

- ❶ Tools > **Styles and Formatting** or click **F7**.
- ❷ Click **"New Style"**. You can create a user name, and indicate the styles that you want.
- ❸ Click **Apply**.

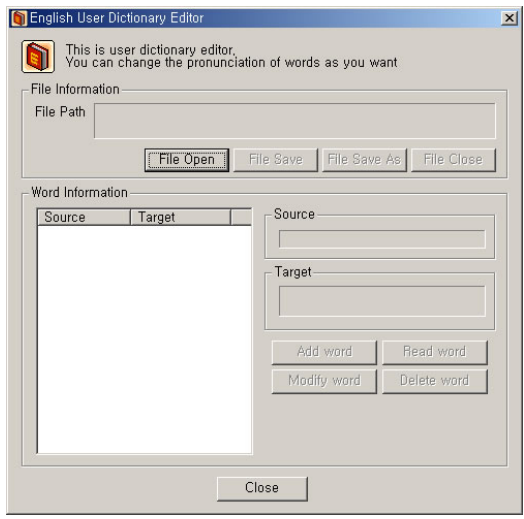


Customizing TTS

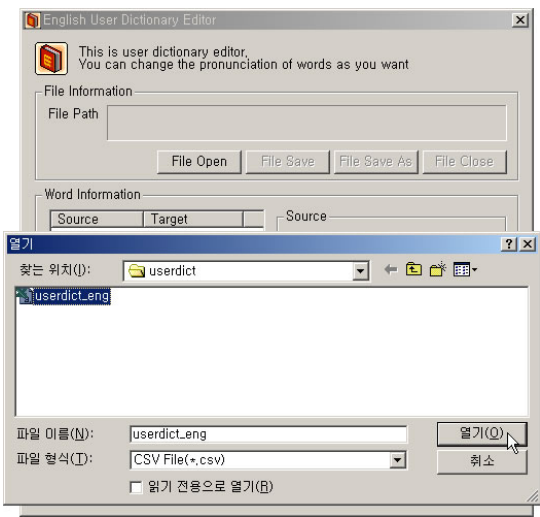
You can configure your own setting for TTS to change the pronunciation of the specific words or to read aloud the icons, marks, symbols and special characters as you want.

Example) . → period (The mark at the end of a sentence can be read as "period".)

1 Select **Tools > Customizing TTS** or just click **Ctrl + D** keys together.

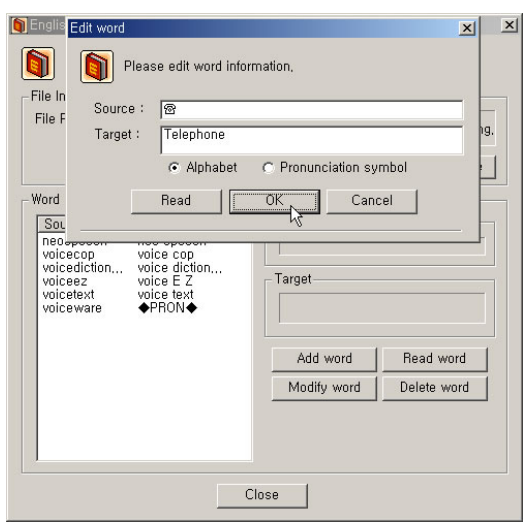


2 Click **File Open** and then select **userdict_eng**.

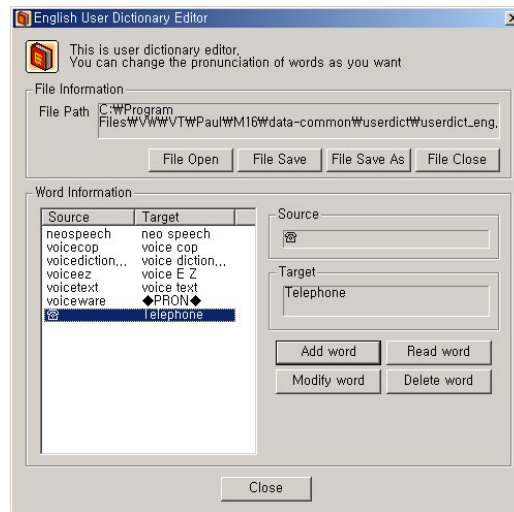


3 Select **Add word**. Enter the word that you want to add in the **Source** field and the word that you want read aloud in the **Target** field. When you are finished, click **OK**.

After you click **File Save**, you can always hear the word that you input.



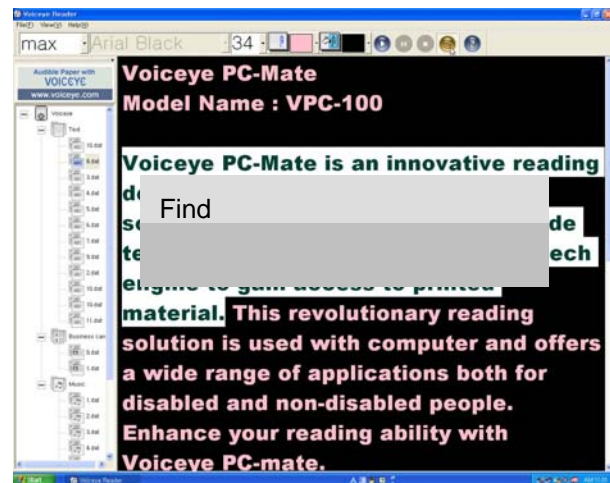
- Click **Read word** to hear the word you designated in advance.
Click **Close** to finish this function.



Find & Play

This function allows you to start hearing a passage from any word that you designate. Therefore, you can save time since you don't need to hear the passage from the beginning again. Just input the word that you want to start hearing from. The word will automatically be found and the voice will start reading aloud from that point.

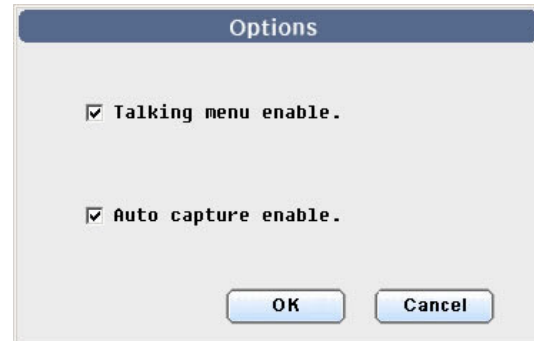
- Tools > Options > Find and play or press **Ctrl + F** keys
- Enter the word that you want to find. The designated word will be highlighted.
- If the word is found more than once, the first word found will be highlighted. Move the cursor to the word that you originally designated by pressing **F3**.
- Click **Ctrl + R** to start reading from the designated word.



Options

Talking menu and auto capture are selectable as options. Make your selection and press **OK**.

- ❶ Tools > **Options** or click **Alt + Enter**
- ❷ Check "**Talking menu enable**". The title of the selected file is read aloud.
- ❸ Check "**Auto capture enable**". The VOICEYE symbol is captured automatically by the VOICEYE scanner without the push of a button.



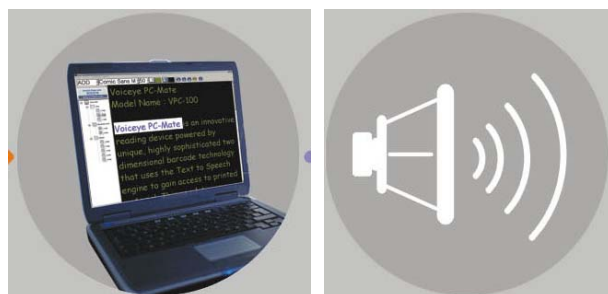
3 Basic Operation

Text Reading

- 1 Place the VOICEYE Scanner on a VOICEYE symbol on printed material.



- 2 The VOICEYE Scanner automatically scans VOICEYE symbols in a matter of seconds. The scanner will beep when it is finished.



3

The highlighted and spoken words are displayed simultaneously.

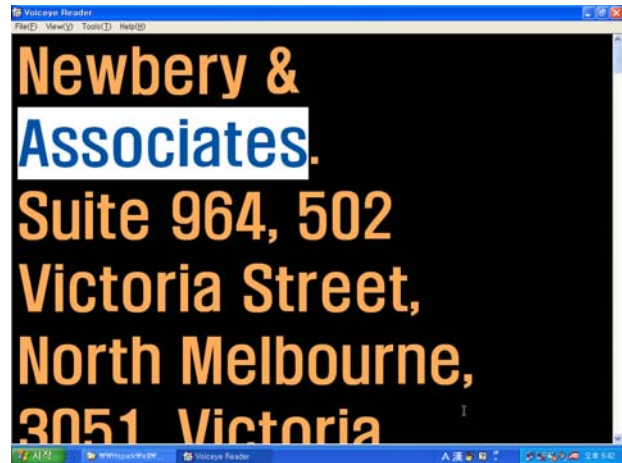
※ Adjust various options to suit your specific preferences and purposes.



Digital Magnifier

VOICEYE incorporates a low vision magnification feature that displays magnified text on the screen. Place the VOICEYE scanner on the texts that you want to enlarge.

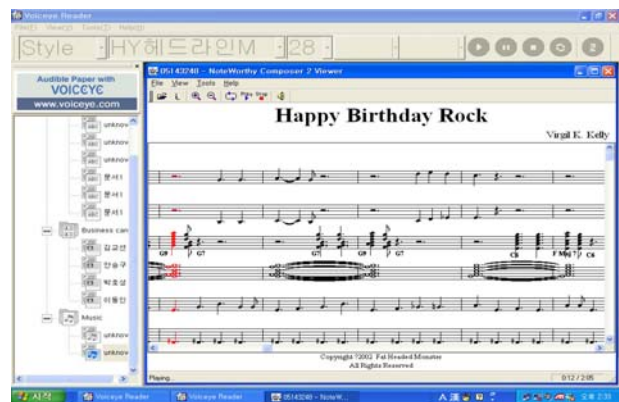
Texts are magnified between 100 and 400 times. When using it as a magnifier, remove the left and top viewer by pressing **F5** and **F6** for a bigger screen.



Music Play

Place the VOICEYE scanner on a VOICEYE symbol on a musical score, and press **Enter**.

※ Only audio files such as NWC or MIDI saved in the VOICEYE symbols can be played.



Biz card Management

Place the VOICEYE scanner on the VOICEYE symbol printed on a business card, and press **Enter**.




























※ VOICEYE stores your name card information and automatically transfers it into Outlook Express Address.

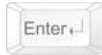






















Appendix

Basic Shortcut Keys

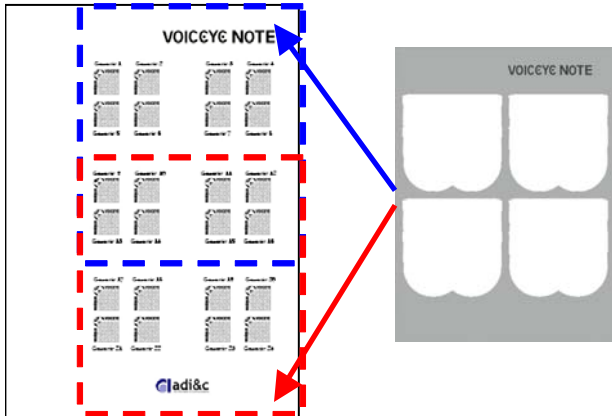
The basic shortcut keys below are a listing of shortcut keys that will work with almost all IBM compatible computers and software programs. It is highly recommended that all users keep a good reference of the shortcut keys below and/or try to memorize them. Doing so will dramatically increase the efficiency with which you can use this program.

Class.	Description	Shortcut keys	Remarks
Text view	Play	 + 	
	Stop	 + 	
	Pause	 + 	
	Repeat	 + 	
	Auto scroll set/release	 + 	
	Word highlight set/release		
	Style change		
	Find the designated word and play from that point	 + 	
	Move to the next designated word found and play from that point	 + 	
	User dictionary edit	 + 	
Video view	Zoom in	Numpad 	(for laptop:  + )
	Zoom out	Numpad 	(for laptop:  + )
	Default size	 +  + 	

	Symbol capture		
Common keys	Move to Video screen change		
	Speech Speed control		
	Auto scroll interval		
	Show/hide contents bar		
	Show/hide toolbar		
	Set style sheet		
	Environment setting	 + 	
	Select the text folder	 +  + 	After selecting folder, press  + 1 to 10 to read aloud the contents of the ten files retained in the order they were saved.
	Select the business card folder	 +  + 	
	Select the music folder	 +  + 	
Program quit	 + 		

How to use VOICEYE Note Template

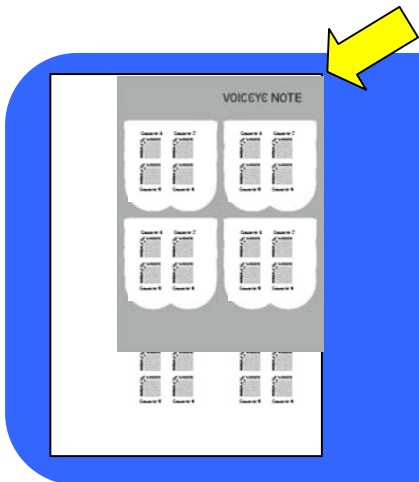
VOICEYE Note Template helps you find the locations where the VOICEYE symbols are printed easily. The front side of the VOICEYE Note Template is marked by a small hole made on the top right-hand side.



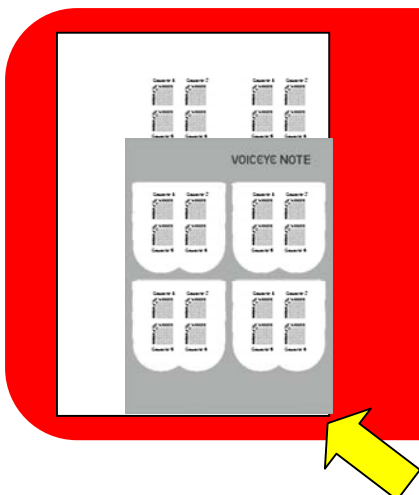
VOICEYE Note Format

You can print the VOICEYE symbols as a Note format using VOICEYE Maker program.

In a VOICEYE Note format, 24 VOICEYE symbols are included.















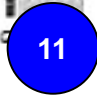







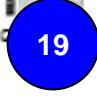
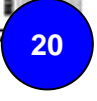


Place the VOICEYE Note template on the top right corner of a document printed in note format.
The VOICEYE Note template holds 16 VOICEYE symbols in the top right section.




Place the VOICEYE Note template on the bottom right corner of a document printed in note format.
The VOICEYE Note template holds 16 VOICEYE symbols on the bottom right section.

In the VOICEYE Note format, the VOICEYE symbols are created in the following order. Therefore, capture the VOICEYE symbols in the same order.

VOICEYE NOTE

Generic 1	Generic 2	Generic 3	Generic 4
			
			
Generic 9	Generic 10	Generic 11	Generic 12
			
			
Generic 17	Generic 18	Generic 19	Generic 20
			
			



Regulatory Information

FCC Statement

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 instruction manual, 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.

For customers in Europe



The CE mark is valid only for products marketed in the European Union.

Warranty

AD Information & Communications Co., Ltd.(ADI&C) is committed to providing you the flawless products by using the best materials and workmanship available. Our warranty period is one year from the date of purchase.

If these products prove defective during this warranty period, call Customer Support in order to obtain a Return Authorization Number.

Be sure to have your proof of purchase when calling. Return requests cannot be processed without proof of purchase.

When returning a product, mark the Return Authorization Number clearly on the outside of the package and include your original proof of purchase.


In no event shall ADI&C's liability exceed the price paid for the products from direct, indirect, special, incidental, or consequential damages resulting from the use of the product, its accompanying software, or its documentation. ADI&C does not offer refunds for any product.

ADI&C makes no warranty or representation, expressed, implied, or statutory, with respect to its products or the contents or use of this documentation and all accompanying software, and specifically disclaims its quality, performance, merchantability, or fitness for any particular purpose.

ADI&C reserves the right to revise or update its products, software, or documentation without obligation to notify any individual or entity.



Proof of Purchase

Product Name		<div style="text-align: center;">Customer Service Center</div> <p>#608, Ace Techno Tower 8th, 191-7, Guro-dong, Guro-gu, Seoul, Korea Tel: +82 2 2025 7750 Fax: +82 2 2025 7754 www.voiceye.com</p> <div style="text-align: right;"></div>	
Model Name			
Purchase Date	mm / dd / yy		
Serial No.			
Purchase Place	TEL		
Warranty Period	1 Year after the date of purchase		



VOICEYE



- Please visit our homepage at www.voiceye.com for more information or call +82 2 2025 7750 for help.
- If you need any assistance, please contact an authorized dealer in your area.
- Under our policy of continuous improvement, we reserve the right to change specifications and designs without prior notice.