

IBM VoiceType Dictation Version 3.0 for Windows 95; Computing with the Power of Speech

VoiceType™ Dictation Version 3.0 for Windows† 95 — the highly accurate speech recognition solution — now runs with industry sound cards. With VoiceType Dictation, you can talk directly into your computer and create text faster than many people can type. The text is created directly in the target application or in a Dictation Window that supports a rich set of document editing and formatting functions. The text can be saved to a file or integrated with other applications.

This release supports many “hands free” enhancements, such as the ability to turn the microphone on and off by voice and to navigate through the application’s menus. You can also control the Desktop in Windows 95 and applications by voice — in U.S. English or Spanish.

When running under Windows 95, VoiceType Dictation has the features of a full Windows 95 application, including:

- Long filenames
- Object Linking and Embedding (OLE) 2.0 Container and Object support and OLE 2.0 drag-and-drop support
- E-Mail (MAPI) supported directly from the IBM VoicePad Application
- Autoinstall from a CD-ROM

A sophisticated statistical language model that understands common word pattern usage and a detailed understanding of your voice allows VoiceType Dictation to accurately convert your speech to text. Words that sound alike such as **to**, **too**, and **two** are easily handled in context.

The product includes a general office vocabulary of over 22,000 words with the ability to add your own personal words for a total vocabulary of up to 64,000 words. To make the system even more accurate, VoiceType Dictation can be optimized to various professions like medicine, journalism, and legal with specialty vocabularies designed specifically for them.

With VoiceType Dictation, there is no need to stop and make corrections as you are dictating; you can edit after you complete your thoughts. VoiceType Dictation can also replay what you said, so that you never have to rely on memory to get the details right.

The Solution Pac includes the software, product documentation, and a VoiceType qualified microphone.

Solution Pac	Feature Number	Part Number	OTC*
U.S. English	1163	78H5301	\$699
Spanish	1164	83H1172	699
Additional License	1420	83H1180	665

Planned Availability Date: June 14, 1996 (U.S. English);
July 19, 1996 (Spanish)

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† Registered trademark of Microsoft Corporation

* One-Time Charge

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IN BRIEF . . .

This high-accuracy speech recognition solution runs on Windows 95. With VoiceType Dictation, you can:

- ◆ Talk directly into your computer, creating text that is accurate and available immediately
- ◆ Capture precisely what you say because sophisticated technology accurately converts your speech to text
- ◆ Improve recognition accuracy by adding a specialty vocabulary or your own added words
- ◆ Create text while your eyes and hands are doing other things
- ◆ Navigate and control your applications with your voice by speaking the words that appear in the menu bar, push buttons, check boxes, and list boxes

Prerequisites: VoiceType Dictation, Version 3.0 for Windows 95 requires Windows 95 and a personal computer with the appropriate industry sound card adapter and a Pentium 90MHz, or faster, processor.

For ordering, contact:

Your IBM representative, an IBM Authorized Business Partner, or IBM Direct at

800-IBM-CALL

Reference: SE001

Description

VoiceType Dictation uses proven technology, based on more than two decades of IBM experience. VoiceType Dictation provides a major improvement in how you work with your computer.

VoiceType Dictation for Windows is a highly-accurate, large-vocabulary speech recognition program that converts speech to text. In many cases it can recognize words that are run together, slurred, or partially obscured by background noise. The product includes a language model that understands common word-pattern usage.

VoiceType Dictation includes a general office vocabulary. IBM has optimized the size of the vocabulary for performance and accuracy. This optimization, in combination with the language model, results in a program that can be faster and more accurate than products with a larger vocabulary. Users may also add their own personal words for a total vocabulary of up to 64,000 words.

VoiceType Dictation provides a capability of inputting data into the computer even when users are required to use their hands and eyes for other tasks. Hands are not required to operate the keyboard, and eyes are not required to monitor the text being entered. Any correction required can be performed later.

Dictation — General Office Users

The general office vocabulary included with the VoiceType Dictation Version 3.0 for Windows 95 can be utilized by a wide variety of users who need to create and edit text. Users who would be especially interested are corporate users of e-mail and word processing systems, executives, professionals, students, technical writers, and translators. The ability to use verbal short cuts for distribution lists, standard headings, and command sequences can increase productivity of these users. In addition, users who type slowly can achieve greater levels of speed and accuracy.

The sophisticated adaptive capability of the system to learn users' dictation style and accents enable computer users who are speaking in secondary languages to achieve greater levels of speed and spelling accuracy. Technical writers can easily add special and technical terms to the system.

The dictation function includes a 22,000+ word general office vocabulary supporting U.S. English or Spanish dictation and a spelling dictionary of 100,000 words.

VoiceType Dictation temporarily stores users' spoken words. Users can listen to their spoken words to assist them in correcting their dictated text. The microphone shipped with the product contains an earphone for audio playback. The coded text file is much smaller than the spoken acoustic file, using far less disk storage.

Qualified BESTeam® resellers who specialize in VoiceType Dictation provide fee-based services in order to optimize a user's dictation environment.

End-User Productivity Increased

- General Office
 - Minimize iterative editing
 - Capture information immediately from individuals who have a limited ability or reluctance to use keyboards
 - Improve quality and content of documents
 - Eliminate misspellings

- Medical
 - Transcribe your own medical notes immediately
 - Reduce transcription costs
 - Minimize iterative editing
 - Increase accuracy by adding a medical vocabulary and creating macros for standard medical verbiage
 - Improve quality and content of documents
 - Enable greater speed by taking advantage of the adaptive capabilities of the product
 - Eliminate misspellings
- Law
 - Create your own legal documents immediately
 - Reduce administrative overhead
 - Increase accuracy by adding the legal vocabulary and creating macros for standard legal verbiage
 - Improve quality and content of documents
 - Enable greater speed by taking advantage of the adaptive capabilities of the product
 - Eliminate misspellings
- Journalism
 - Create text immediately
 - Increase accuracy by adding the journalism vocabulary and creating macros for standard legal verbiage
 - Improve quality and content of documents
 - Enable greater speed by taking advantage of the adaptive capabilities of the product
 - Eliminate misspellings

VoiceType Dictation

Two broad categories of speech-related capabilities are provided:

- Navigation
- Dictation

The VoiceCenter function speech enables automatically the Windows 95 Start Menu and Windows applications that internally use the standard Windows user interface controls, such as menus, dialog boxes, and list boxes. Users can, for example, speak the words and have the functions performed that appear in the menu bar, push buttons, check boxes, and list boxes of standard Windows applications. Speech commands are also available to scroll client application areas and list boxes.

To use navigation functions, the national language of the operating system and the selected Windows applications must correspond to the language version of VoiceType Dictation Version 3.0 for Windows 95 unless the user trained the program to recognize other specific words.

Other Windows applications can be speech-enabled by defining voice macros for them. Voice macros allow users to define a sequence of actions that can be subsequently initiated with a simple spoken command. The macros can also emulate keyboard functions.

Speech-Enabled Applications

The IBM VoiceCenter provides a quick and easy way for users to bring the power of speech recognition to existing applications. The IBM VoiceCenter supports speech-enabling applications through these functions:

- Automatic enablement
- Command macros

An application that responds to voice through the use of these functions is speech-enabled.

For navigation, the national language of the operating system and the application must correspond to the language of VoiceType Dictation Version 3.0 for Windows 95 unless the user has trained the application to recognize other specific commands.

Additional Windows applications may work, though IBM has not tested them at this time.

Investment Protection of Existing Applications: With VoiceType Dictation for Windows 95, existing applications may be protected and extended. Text created by voice can be passed directly to applications for document production without an intermediate step such as transcribing.

Product Positioning

IBM now offers the following speech recognition dictation products:

- VoiceType Dictation Version 3.0 for Windows 95
- VoiceType Dictation for Windows, Version 1.32
- VoiceType Dictation for OS/2®, Version 1.1

These products require isolated word speech and support recognition of very large vocabularies and speech navigation.

VoiceType Dictation Version 3.0 for Windows 95 is IBM's premier dictation product. It requires a 90MHz Pentium, or faster, processor and runs with many of the industry-standard sound cards. This product also provides "speaker-independent capability" performing with a very high level of accuracy for most native-born speakers, eliminating the need to train the product. Version 3.0 supports delayed and delegated correction facilities. It also provides the user with the capability of storing personal words to create up to a 64,000 word language model. This version of the product supports multiple methods of dictation, for example, in-place dictation into MS Word 7.0, dictation into a rich-in-function, speech-aware word processor VoicePad, and direct dictation into many applications using VoiceType Direct.

The VoiceType Dictation for Windows and VoiceType Dictation for OS/2 (for OS/2 2.1 and Warp) are stand-alone products with essentially the same function. Selection should be made based on your operating system environment.

IBM, in addition, offers the following speech recognition products:

- VoiceType Vocabulary for Journalism Dictation
- VoiceType Vocabulary for Emergency Medicine Dictation
- VoiceType Vocabulary for Radiology Dictation
- VoiceType Vocabulary for Legal Dictation

VoiceType Dictation for Windows 95, VoiceType Dictation for Windows, and VoiceType Dictation for OS/2 are dictation products with a large, flexible vocabulary for general office use. In addition, the industry-specific language models are tailored to provide improved productivity in these professions.

Publications

The following publications will be available from IBM. To order, contact your IBM representative or call 800-879-2755.

Title	Order Number
IBM VoiceType folder	G326-0681
IBM VoiceType 3.0 brochure	G520-7224
IBM VoiceType 1.32 brochure	G520-7225
IBM VoiceType Control brochure	G221-4507
IBM VoiceType Family brochure	G221-4506
IBM VoiceType poster	G326-0862
VoiceType Value Position for Dealers	G520-7226
IBM VoiceType Dictation Version 3.0 for Windows 95 User's Guide	S78H-6456
IBM VoiceType Dictation Version 3.0 for Windows 95 Quick Reference	S78H-6455

One copy of the following publications is supplied automatically with the basic machine-readable material of VoiceType Dictation Version 3.0 for Windows 95.

Language	Order Numbers	
	VoiceType Dictation Version 3.0 for Windows 95 User's Guide	VoiceType Dictation Version 3.0 for Windows 95 Quick Reference Card
Spanish	SH10-9200	SH10-9201
US English	S78H-6456	S78H-6455

Displayable Softcopy Publications: The following VoiceType Dictation for Windows 95 manuals are offered in displayable softcopy form:

- Installing VoiceType Dictation 3.0 for Windows 95
- IBM VoiceType Dictation 3.0 for Windows 95 User's Guide
- IBM VoiceType Dictation for Windows 95 Quick Reference

The displayable manuals are part of the basic machine-readable material. The files are shipped on the same media type as the basic machine-readable material (CD-ROM).

These displayable manuals can be used with the BookManager® READ licensed programs in any of the supported environments. Terms and conditions for use of the machine-readable files are shipped with the files.

Education Support

Call IBM Education and Training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

Technical Information

Specified Operating Environment

Hardware Requirements: Minimum recommended configuration:

- A 90MHz, or faster, Pentium with 256K L2 Cache, a PS/2®, ValuePoint™ system, Aptiva™, ThinkPad®, or IBM-compatible PC
- At least 16MB of memory (RAM)

All configurations also require:

- At least 30+MB of available disk space, depending on the language chosen
- A VoiceType supported industry sound card, (SoundBlaster 16 or 100% compatible, or MWAVE® sound card).
- A microphone (an active noise canceling type included in the package)

Software Requirements: Microsoft† Windows 95 is a prerequisite for the VoiceType Dictation Version 3.0 for Windows 95.

VoiceType Dictation Version 3.0 for Windows 95 is a prerequisite for the optional VoiceType Vocabulary for Dictation. Refer to Software Announcement 294-706, dated November 8, 1994, for information.

For navigation, the national language of the operating system must correspond to the language of VoiceType Dictation Version 3.0 for Windows 95 unless the user has trained the application to recognize specific words as commands.

Compatibility: The U.S. English version of VoiceType Dictation Version 3.0 for Windows 95 has been tested and found compatible with the following suites and applications:

- Microsoft Word 6.0c

Microsoft Office Windows 95

- Word 7.0
- Excel 7.0
- PowerPoint 7.0
- Access 7.0

Novell Perfect Office 3.0

- WordPerfect 6.1
- Quattro Pro 6.0
- Presentations 3.0
- GroupWise 4.1
- InfoCentral 1.1
- Envoy Viewer 1.0

Lotus SmartSuite 96

- Lotus 1-2-3 5.0
- Lotus Word Pro 96
- Freelance Graphics 96
- Approach 96
- Organizer 2.1

Refer to the VoiceType Dictation Adapters and Microphones Hardware Announcement 194-394, dated November 8, 1994, for systems tested.

The IBM Personal Dictation System vocabularies, U.S. English, are not compatible with VoiceType Dictation Version 3.0 for Windows 95, U.S. English.

Limitations: The VoiceType Dictation Version 3.0 for Windows 95 program and its files has the following limitations:

- Should not be compressed with disk compression utilities
- May not work with all processor boards
- Not compatible with WIN-OS/2™

Performance Considerations: Speech recognition requires significant system resources to maximize response. Particular attention should be paid to the system requirements, which should be considered minimum system requirements. Performance may be influenced by many factors but three key areas are: processor power, available memory, and virtual memory space.

As for processor speed, faster machines provide a quicker response to any user-initiated function, whether it be by keyboard or spoken commands. As with a keyboard, processor speed does not affect recognition accuracy. On a faster machine, you will notice all speech recognition functions are completed faster. For example, if you speak at a specific dictation rate, then on a faster machine the translation of the spoken words into recognized text will complete faster. For rapid input on a slow processor, you can notice that there is a delay after the dictated text finally appears on the screen. The delay is less on faster processors.

If you use relatively large programs (such as a word processor) with the speech recognition system, then sufficient RAM for both programs is useful to prevent excessive swapping. (You can notice the effect of swapping even on word processors alone if real RAM is reduced.) In addition, sufficient contiguous disk space and a 32-bit file system greatly improve the ability to do swapping rapidly.

Refer to the **Technical Information** section for a recommended hardware configuration.

Planning Information

Customer Responsibilities: The customer must provide at least the minimum hardware and software environments in which the VoiceType Dictation Version 3.0 for Windows 95 will operate.

IBM recommends that the customer use the microphone in the product package from IBM. If the customer prefers a different microphone, care should be used since the choice of a microphone can influence speech recognition accuracy. An alternative microphone should be of very high quality and designed for close-range pickup to reduce background noise. The microphone must have a flat audio frequency response range. One sample of microphone characteristics, which have been tested with VoiceType Dictation Version 3.0 for Windows 95, U.S. English, is given below:

- Type: Electret
- DC Input Voltage: 2.5 to 5 V DC
- Frequency response: 50Hz to 15,000Hz
- Polar pattern: Bi-directional, with opposing lobes added with a 180-degree relative phase shift for noise cancellation.

- Impedance: 2.2K ohms (with 2.2K ohm collector resistor)
- Output level: 20 mVp-p @ 2.5 V DC Input; 40 mVp-p @ 5.0 V DC Input (@ 104 dB SPL, 0.5 inches from sound source)
- Sensitivity: 63 + 3 dB (0 dB = 1 V/ubar at 1KHz)

Installability: Our most satisfied customers have contracted with members of the BESTeam for installation and customization services.

Packaging: VoiceType Dictation Version 3.0 for Windows 95 Solution Pac and VoiceType Dictation Version 3.0 for Windows 95 Solution Pac Upgrade is distributed in one package with the following materials:

- IBM VoiceType Dictation Version 3.0 for Windows 95 User's Guide
- Program software (CD-ROM)
- License Information
- Proof of Entitlement
- Installation guide
- Media Request Card, for user's wanting to order 3.5-inch diskettes
- Quick Reference
- Registration Card
- Customer Service and Support Information (U.S. English only)
- CompuServe Information Service Flyer (U.S. English only)
- VoiceType qualified microphone with cable and warranty

Security, Auditability, and Control

The announced programs use the security and auditability features of the operating system and IBM system unit in which they are installed.

User management is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering Information

Orders for new licenses will be accepted now.

Shipments will begin on the planned availability date.

To order these programs for order type, specify the order type number, feature number, part number, program name, media, and quantity.

Program Package: CD-ROM program media with documentation

Program Name	Feature Number	Part Number
Order Type 5801-AAR		
IBM VoiceType Dictation Version 3.0 for Windows 95 Solution Pac		
U.S. English	1163	78H5301
Spanish	1164	83H1172

Program Name	Feature Number	Part Number
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Order Type 5803-AAR

IBM VoiceType Dictation Version 3.0 for Windows 95 Solution Pac Upgrade		
U.S. English	0365	78H6577
Spanish	0374	83H1231

Documentation: Separate documentation with no media

Program Name	Feature Number	Part Number
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Order Type 5806-AAR

IBM VoiceType Dictation Version 3.0 for Windows 95		
User Guide		
U.S. English	0047	78H6456
Spanish	0049	83H1173
Quick Reference		
U.S. English	0048	78H6455
Spanish	0050	83H1174

Program Package Upgrade: CD-ROM program media with documentation

Order Type 5803-AAR

Program Name	Feature Number	Part Number
IBM VoiceType Dictation Version 3.0 for Windows 95 Solution Pac Upgrade		
U.S. English	0365	78H6577
Spanish	0374	83H1231

Program Upgrade

The program package upgrade option allows currently licensed users of VoiceType Dictation for Windows 1.1, 1.1.1, and 1.32 or VoiceType Dictation for OS/2 1.1, or IBM Personal Dictation System (IPDS™) 1.0, to obtain the new function for a program upgrade charge. The program upgrade to VoiceType Dictation Version 3.0 for Windows 95, U.S. English is available when the base product becomes available. Orders will be accepted now. These upgrades will be available through all of the same channels as the product. The remarketer will require a Proof of License for each upgrade ordered. The original Proof of License is the separate Proof of License page in the program package as identified by IBM to the remarketer.

You can also order upgrades through the local IBM office using the IBM Personal Software Program Upgrade and Certification Order Form.

Terms and Conditions

Licensing: The programs described in this announcement are licensed under the terms and conditions of the IBM International Program License Agreement. A copy of the agreement is included in the program package.

Variable Charges Apply: No

Limited Warranty: Yes

Program Services: Program services will be available until July 31, 1997.

Volume Orders: For information regarding volume orders, contact your IBM representative.

IBM VoiceType Dictation Version 3.0 for Windows 95 is eligible for volume discounting under the terms of the Software Advantage for Workstations Agreement and Exhibit. For information regarding volume orders, contact your IBM representative.

Guarantee: Yes. The IBM 30-day, money-back guarantee applies.

Authorization for Copy and Use on Home/Portable Computer: Yes, as specified in the program package.

Program Transfer: Fully transferable

Educational Allowance: A reduced charge is available to qualified education customers. The educational allowance may not be added to any other discount or allowance.

Charges

Program Name	Feature Number	Part Number	OTC*
Order Type 5801-AAR			
IBM VoiceType Dictation Version 3.0 for Windows 95 Solution Pac			
U.S. English	1163	78H5301	\$699
Spanish	1164	83H1172	699
Additional			
License with Proof of Entitlement	1420	83H1180	665
Microphone		83H1181	
		78H6571	

Order Type 5803-AAR

IBM VoiceType Dictation Version 3.0 for Windows 95 Solution Pac Upgrade			
U.S. English	0365	78H6577	99
Spanish	0374	83H1231	99
Additional			
License with Proof of Entitlement	1421	83H1233	95
Microphone		83H1181	
		78H6571	

* One-Time Charge

Program Upgrade Charge: A program upgrade charge will apply for upgrades from VoiceType Dictation for Windows Version 1.1, 1.1.1, and 1.32, or VoiceType Dictation for OS/2 Version 1.1, or IPDS Version 1.0, to VoiceType Dictation Version 3.0 for Windows 95.

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P.O. Box 16848
Atlanta, GA 30321-0848
Reference: SE001

To identify your local IBM Authorized Business Partner or IBM representative, call 800-IBM-4YOU.

Note: Shipments will begin after the planned availability date.
