

Release Notes

DynaVox Series 5 Software, Version 1.05

This document summarizes the major changes and new features associated with the release of version 1.05 of the DynaVox Series 5 software for DynaVox V and Vmax devices.

Eye Tracking Selection Method

This version of the Series 5 software introduces the Eye Tracking selection method. This selection method enables individuals to make screen selections with their eyes, by looking at specific objects or different locations on the device screen. Objects can be selected by blinking, dwelling on them for specified amounts of time, or by using an external switch.

Eye Tracking requires that the EyeMax accessory (hardware) be connected to a Vmax device. The EyeMax accessory contains one camera and two infrared transmitters, used to track the movements of the user's eyes.

Software changes to support Eye Tracking include:

- The software includes an Eye Tracking Wizard that guides users through the calibration process. The software also provides menus to choose the selection method for Eye Tracking (blink, dwell, blink/dwell, and external switch), as well as to adjust the selection timing and visual feedback for selections.
- The software now provides a Dashboard Hotspot button that allows quick access to a popup of the user's choice. For example, the Eye Tracking Dashboard popup (developed along with the Navigator user) enables users to quickly check eye tracking status, modify frequently needed settings, and recalibrate the EyeMax accessory. The Dashboard Hotspot button is available for all other selection methods.
- The software now enables users to designate a portion of the Message Window as a Speak button. When the Speak button is active, Eye Tracking users can create and review the contents of the Message Window without accidentally selecting it. When the message is ready, selecting the Speak button will speak the contents of the Message Window. The Speak button is also available for other selection methods.
- The Page Editor enables users to create an Eye Track Status window that dynamically displays if the EyeMax accessory and the user are both positioned properly for optimal use. The Eye Track Status window displays green plus signs to represent the user's eyes, and an icon to show the user's distance relative to the EyeMax accessory the last time it was calibrated.
- Several new behaviors have been added to support the Eye Tracking functionality. Refer to **New Behaviors** for a complete list.

The Navigator User

- This software release also introduces the Navigator user and page set. Navigator was created for literate adults with acquired disabilities and very minimal cognitive disorders. The language structure in Navigator is designed for people who had full verbal capabilities prior to acquiring speech disabilities. These individuals are accustomed to viewing and understanding content in a text-based format and are more likely to rely on novel utterances than pre-programmed phrases.
- Navigator has been designed to work easily with the new Eye Tracking selection method (Navigator's target user often has a disability that progresses to a point where eye tracking may be the only selection method that the user can perform). Navigator provides formats with buttons about 1" x 1" and larger for times when physical factors (fatigue, progressive disabilities, etc.) make it difficult for the user to communicate with a more detailed page set.

New IR Capabilities

- The Series 5 1.05 hardware includes a new IR chip that is pre-programmed with thousands of infrared remote control commands for most new household electronic appliances.
- To support the capabilities of the new IR chip, the Series 5 1.05 software provides a remote control wizard (with instructional videos) for quickly programming the V/Vmax device with the set of remote control commands for a specific electronic appliance. The default remote controls (Living Room TV, Bedroom DVD, etc.) within the software are set up to work with new remote control pages. The wizard allows users to create custom remote controls for specific appliances to use with the new remote control pages.

Note: Existing users who upgrade to the 1.05 software will not receive the IR chip (and the remote control wizard will have limited functionality). For information on upgrading the hardware, contact DynaVox Sales/Customer Support at 1-800-344-1778.

eBook Reader

- With this release, the Series 5 software supports the use of electronic books (eBooks) in DAISY format. The software provides an *eBook Reader* menu (accessible from the *Tools* menu), which enables users to download electronic books (eBooks) and have the V/Vmax device speak the text of the book. The software also supplies the tools necessary to create a custom eBook reader page that may better suit the user's page design requirements.
- The software provides an eBook Viewer tool that allows the user to draw out an area to contain the text of a loaded eBook on a custom eBook reading page.
- The software provides an eBook Table of Contents tool that allows the user to draw out an area to contain the table of contents of a loaded eBook on a custom eBook reading page.
- (Open V/Vmax devices only) "Dragging and dropping" an eBook from the Windows desktop onto a blank button on a page that has an eBook Viewer in the Series 5 software will create an open ebook behavior on the button and import the book.

- The *Behavior Editor* menu now includes an eBook Actions category, which contains behaviors that have been added to support the *eBook Reader* menu. Refer to **New Behaviors** for a complete list.

InterAACT Page Content

This software release includes the following enhancements to the InterAACT page set:

- The standard navigation buttons in every popup now use macros to determine which page to open. Therefore, users can quickly change the destination for the “My Words,” “My Phrases,” “Gateway,” and “Keyboard” buttons on every popup simply by changing the macro they reference, rather than modifying every individual button.
- The Quickfire buttons on the top of every visual scene now use a macro to determine which page to open. Therefore, users can quickly change the destination for the “Talk” button on every popup simply by changing the macro, rather than modifying every single button.

OnScreen Keyboards (open V/Vmax devices only)

- With this release, users can place the title bar on the left side of an onscreen keyboard. This enables users to create smaller onscreen keyboards that take up less screen area, leaving more room for the Windows application(s). This release also provides the ability to create much thinner onscreen keyboards.
- This software release includes a number of newly-designed onscreen keyboards for Google Mail, Google Calendar, Open Office, and updated onscreen keyboards for Mouseless Browsing via Mozilla Firefox.
- The user can now use environmental control behaviors from onscreen keyboards.

Page Editing

- The following tools have been added to the Tools palette in the Page Editor:
 - Freeform Button - This new tool allows the user to create custom-shaped (irregular-shaped) buttons, drawn to any desired size or shape.
 - Freeform Active Area - This new tool allows the user to create custom-shaped (irregular-shaped) active areas, drawn to any size or shape.
 - Eye Tracking Status - This new tool allows the user to draw out an Eye Track Status window that dynamically displays if the DynaVox EyeMax System and the user are both positioned properly for optimal use.
 - eBook Viewer - This new tool allows the user to draw out an area to contain the text of a loaded eBook on a custom eBook reading page.

- eBook Table of Contents - This new tool allows the user to draw out an area to contain the table of contents of a loaded eBook on a custom eBook reading page.
- This release now provides a *Protected* option in the Page Editor which prevents a button's contents from being overwritten by the "Copy To..." behaviors. This option is in the *Modify Button* menu (in Page Editing).
- Boardmaker boards with freeform buttons can now be imported as Series 5 pages with the freeform buttons preserved during the import process.

Selection Methods

- With this software release, DynaVox introduces the Eye Tracking selection method. Refer to ***Eye Tracking Selection Method*** for more information.
- The *Highlight Rules* menu now includes fill and drain options for highlighting screen objects (such as buttons) for certain selection methods. When a *Fill Type* option is selected, the highlighted screen object will gradually fill with the highlight color and when the object is full, the software accepts the selection. The available options are bottom up (filling from the bottom up), contract (filling from the outside edges in), and none (no visual filling or draining).

The *Drain* option allows the user to set a Drain Delay and Drain Time. The Drain Delay is the amount of time the user can drift from a targeted button before the Pause or Dwell timer is set back to zero. The Drain Time enables the user to set the rate at which the targeted button will drain. The highlight fill from a screen object until it is no longer highlighted. Setting the *Drain Delay* option allows the software to wait for a brief time before starting to drain the highlight fill from screen objects.

- This software release provides the new *Additional Desktop Settings* menu for several selection methods for Windows desktop selection on an open V/Vmax device. These settings allow the user to display the hold, dwell, or pause time animation on the Windows desktop when the Series 5 selection method is extended. The user can also select the Pause Box Size which corresponds to an invisible margin that surrounds the cursor at the point where the cursor is pausing or dwelling on an object (link or icon) in Windows. The box was created to allow for the small movements that naturally occur while trying to maintain contact on the target.
- The Mouse Pause selection method now provides an audio feedback option in the *Mouse Pause Settings* menu. The user can select the *Click* sound option and then select the volume of the click sound.
- With this release, the Continuous Scanning Mouse feature allows users of the Scanning and Morse Code selection methods to extend their selection method to the Windows desktop. A switch selection starts the continuous scanning mouse.

Wireless Capabilities with Bluetooth

- This software release supports the use of Bluetooth wireless technology to transmit data and commands from the V/Vmax device to a remote computer. This requires the use of a

Bluetooth adapter for the V/Vmax device (if the remote computer is not already Bluetooth-enabled, it will also require an external Bluetooth adapter).

- Serial Keys and AAC keys are now offered as an alternate output method. They can only be used via Bluetooth.

Media Browser

- This software release provides a *Media Browser* menu that allows the user to display images, play videos, or play music/sound files. The user may select to display an image, play a video, or play a musical selection from personal folders or from the *Shared* folder.
- Users can program a button on any page to open the *Media Browser* menu and display a specific image or play a specific video or music/sound file using the Open Media File behavior.
- The Media Browser behavior has been added to the Display System Features category in the *Behavior Editor* menu.

Email Enhancements

- This release provides the ability to create additional active labels for email information including Pending Email Attachments and Pending Email CCs.
- This release provides a way to add the Quick Email behavior to buttons without adding an address. This allows users to create an address book that can be quickly modified as necessary.
- The Show Attachments Browser behavior has been added to the Email category in the *Behavior Editor* menu. This behavior enables users to open the *Attachments* menu and view any attachments to the current email message by selecting a button.
- On an open device, a new *View Externally* button allows the user to open an email attachment file in a separate window on the desktop.

New Behaviors

The following behaviors have been added (or modified) to various categories in the *Behavior Editor* menu:

Common

- Ask Yes or No Before Proceeding - This behavior will ask a yes or no question to make sure the user wants to continue with the remaining behaviors.

Computer Access

- Some of the behaviors in the Computer Access category are now designated “Internal Only” because they are only applicable to controlling the Windows desktop on an open V/Vmax device. Their functions have not changed; they have only been renamed to clarify those functions.
 - Change Active Program (Internal Only)
 - Change Window Position or Size (Internal Only) - This behavior now includes options in the *Select window change* menu that have been renamed to: Series 5 Top Left, Series 5 Top Right, Series 5 Bottom Left, and Series 5 Bottom Right. These options were formerly named: Series 5 Top, Series 5 Bottom, Series 5 Left, and Series 5 Right.
 - Disable Fine Tuning (Internal Only)
 - Enable Fine Tuning (Internal Only)
 - Send Dialog Control (Internal Only)
 - Send Windows Button (Internal Only)
 - Start Scanning Mouse (Internal Only)
 - Toggle Fine Tuning (Internal Only)
 - Toggle Joystick Mouse (Internal Only)
 - Toggle Slow Fine Tuning Near Target (Internal Only)

Behaviors that are not designated “Internal Only” can be used to access both the Windows desktop on an open V/Vmax device and a remote Windows computer. Accessing Windows remotely is accomplished through the use of an AccessIT infrared connection, a Bluetooth serial connection, or Bluetooth AccessIT.

- Send SerialKeys Command (Bluetooth Only) - This behavior adds special commands for SerialKeys to buttons on a computer access page. This behavior only works over a Bluetooth connection.
- Send Windows Button (Internal Only) - This behavior now includes the following five additional selections: Desktop Selection Left Double Click, Desktop Selection Right Click, Desktop Selection Middle Click, Desktop Selection Left Drag, Desktop Selection Right Drag.

Display System Features

- eBook Reader - This behavior opens the *eBook Reader* menu.
- Eye Tracking Calibration - This behavior opens the *Eye Tracking Calibration* menu.
- Eye Tracking Status Menu - This behavior opens the *Eye Tracking Status* menu.

- Eye Tracking Wizard - This behavior launches the Eye Tracking wizard.
- Load User Setup - This behavior opens the *Load Setups* menu, allowing you to load the device's settings that had been saved in a different setup file.
- Save User Setup - This behavior prompts to save current settings to a setup file.
- Media Browser - This behavior opens the *Media Browser* menu.
- Set Symbol from Camera - This behavior opens the *Camera* menu and assigns the picture taken by the connected web camera as the symbol for the current button.

eBook Actions

This is a new behavior category in this software release. It contains the following behaviors:

- Desymbolate eBook Page - This behavior desymbolates the current eBook page.
- eBook Page to Message Window - This behavior sends the current eBook page to the Message Window.
- eBook Page to Vocabulary Clipboard - This behavior sends the current eBook page to the Vocabulary Clipboard.
- Load eBook - This behavior loads the selected eBook.
- Next Page - This behavior moves the current eBook forward a page.
- Open eBook - This behavior opens the specified eBook.
- Previous Page - This behavior moves the current eBook back a page.
- Scroll eBook - This behavior scrolls the eBook Viewer or Table of Contents in a variety of ways - continuously, by page, or across pages.
- Speak and Highlight eBook Page - This behavior speaks the current eBook page and highlights words as they are spoken for certain speech engines (including Acapela and ATT Labs).
- Speak eBook Page - This behavior speaks the current eBook page.
- Symbolate eBook Page - This behavior symbolates the current eBook page.
- Unload eBook - This behavior unloads the current eBook.

Email

- Show Attachments Browser - This behavior opens the *Attachments* menu.

Environmental Control

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- Perform 2007 Tash Phone Command - This behavior sends a command (that you define when assigning the behavior) to an AbleNet Prism telephone.
 - Play Command from Current Remote - This behavior sends a command (that you define when assigning the behavior) from the currently selected remote control.
 - Play Command from Specific Remote - This behavior sends a command (that you define when assigning the behavior) from a specific remote control (that you also define when assigning the behavior).
 - Set Active Remote Control - This behavior selects the active remote control from the list of currently saved remote controls.

Message Window Operations

- Copy to 'Insert Text' with Confirmation - This behavior copies the text from the Message Window to another button. If the button already contains an Insert Text behavior, the user will be asked if they want to replace the text of that current behavior.
- Copy to 'Speak Text' with Confirmation - This behavior copies the text from the Message Window to another button. If the button already contains a Speak Text behavior, the user will be asked if they want to replace the text of that current behavior.
- Set Message Window Font - This behavior sets the font of the Message Window.

Miscellaneous

- Ask Yes or No Before Proceeding - This behavior asks a yes or no question to make sure the user wants to continue with the remaining behaviors.
- Decrease Eye Tracking Dwell Time - This behavior shortens the eye tracking dwell time by a small amount.
- Decrease Joystick Pause Time - This behavior shortens the joystick pause time by a small amount.
- Decrease Mouse Pause Time - This behavior shortens the mouse pause time by a small amount.
- Decrease Scan Speed - This behavior shortens the speed of the scanning highlight by a small amount.
- Increase Eye Tracking Dwell Time - This behavior lengthens the eye tracking dwell time by a small amount.
- Increase Joystick Pause Time - This behavior lengthens the joystick pause time by a small amount.
- Increase Mouse Pause Time - This behavior lengthens the mouse pause time by a small amount.

- Increase Scan Speed - This behavior lengthens the speed of the scanning highlight by a small amount.
- Set Eye Tracking Dwell Time - This behavior defines the eye tracking dwell time that is set in the *Dwell Settings* menu.
- Set Mouse Pause Time - This behavior defines the mouse pause time that is set in the *Pause Settings* menu.
- Set Eye Tracking Selection Type - This behavior chooses how to register an onscreen selection while using the Eye Tracking selection method: blink, dwell, blink/dwell, or external switch.

Multimedia

- Open Media File - This behavior opens the *Media Browser* menu and loads the specified image or video (that you define when assigning the behavior).

Speech

- Lower Speech Rate - This behavior lowers the current speaking rate by a small amount.
- Raise Speech Rate - This behavior raises the current speaking rate by a small amount.

System Settings

- Eye Tracking On or Off - If Eye Tracking is the current selection method, this behavior will toggle the selection method between Eye Tracking and Touch Enter.

Multi-language Features

- This release provides the ability to display strings with UK spellings and terminology.
- This release provides the ability to change users in the Vista operating system.
- This release provides the user setup wizard for users in the German language.

Other New Features

- Open Office is now pre-installed on open devices. A web link will be provided to existing users to download the application.
- The Series 5 software now provides Help videos for the new features of the 1.05 release; these videos can be played through the *Media Browser* menu and are also included on the CD.

- The *Select a Symbol* menu now contains the *Import From Camera* button allowing you to take a picture from a connected web camera and make it a symbol for a button. When you select this button, the *Camera* menu will open.
- The software now provides a Dashboard Hotspot button that allows quick access to the user's selected popup (or onscreen keyboard). The Dashboard Hotspot button appears in the lower right or left corner of the touch screen, and is always available (when activated) on all pages and onscreen keyboards in the Series 5. The software includes two default Dashboard popups: one for the Eye Tracking selection method and one for all other selection methods.
- This software release includes the following new active label types: Current Remote Control, Pending Email Attachments, Pending Email CCs, Eye Tracking, and Desktop Selection Method.
- The software now allows the user to import pages and packages from the DynaVox MightyMo/MiniMo and from the DynaVox M3. The Insert Sound Button behavior may be imported with these pages as well as background images.
- The user can now specify a working directory on the launched application for the Launch an Application behavior.

System Variables

- This software release no longer supports the following system variables:
 - `sys.log_timestamp`
 - `sys.log_behavior_information`

Corrected Issues

- Pronunciation exceptions are no longer sent to the remote computer when using AccessIT.
- Speaking Dynamically Pro now handles switches correctly, even after it is restored by the Application Manager.
- The active window now stays maximized if the onscreen keyboard is hidden.
- The user can no longer create a blank "Get ..." behavior.
- In the previous version of the software, the "Send Windows ..." commands were not working properly when Joystick was the active selection method. This has been corrected.
- In the *Camera* menu, extensions for image files are no longer case sensitive.
- In the previous version of the software, the Series 5 software would crash under certain conditions when forwarding an email from a Compose Page and Use First Line as Subject check box is selected. This has been corrected.

- In the previous version of the software, the Series 5 software might crash if email folders (.dvm files) were corrupted. This has been corrected.
- Some email messages from Series 5 were receiving an inordinately high SPAM score from Yahoo! mail.
- In the previous version of the software, email settings were being saved to a backup user even when the user requested otherwise. This has been corrected.
- In the previous version of the software, right angle brackets (>) were spoken when an email message was read. This software release does not allow right angle brackets to be spoken.
- In the previous version of the software, the software application would sometimes hang during email setup when German was the active language and the serial number was not correct on the device. This has been corrected.
- In the previous version of the software, some old style fonts were not being displayed correctly. This has been corrected.
- The *Delete* button now always deletes the chosen part of speech in the *Edit Search* menu.
- In the previous version of the software, switching selection methods could cause the Mouse Toolbar to not work. This has been corrected.
- This software version corrected the problem of the target application being positioned inappropriately after using the Change Window Position or Size (Internal Only) behavior.
- In the previous version of the software, some elements of the onscreen keyboard were occasionally missing after coming out of hibernation. This has been corrected.
- In the previous software version, selecting the Main Menu button and Power button almost simultaneously could restart the Series 5 software or shut down the device. This has been corrected.
- In the previous software version, selecting the Power button while the scanning mouse was running could restart the Series 5 software. This has been corrected.
- In the previous software version, the radar fine tuning in the scanning mouse used the Up a Level arrow instead of moving the crosshair on 5 levels. This has been corrected.
- Users are now able to use drag and drop with the Mouse Pause selection method.
- With this version of the software, the Series 5 software no longer locks up when Joystick is the active selection method and the Power Button is set to open the *Setup* menu.
- The Joystick highlight no longer skips buttons when audio feedback is enabled.
- In the previous software release, the Series 5 software closed when a selected search result was not added to the Message Window when the Morse Code selection method was in use. This has been corrected.

- In the previous software release, when the Series 5 software was minimized, the selection was sometimes not made when scanning mouse was the selection method and the *Touch Screen* drop-down menu was set to *Is a Switch*. This has been corrected.
- The mouse cursor no longer becomes sluggish when using desktop selection.
- The Copy to 'Speak Text' behavior now preserves slots.
- In the previous software version, the Series 5 software could crash when using the Copy to 'Insert Text' behavior with slots. This has been corrected.
- Slot words are no longer spoken twice when both the *Use Symbols in the Message Window* option and the *Speak When Inserting Words* option are enabled.
- Slots are now carried over in a package only if they are nested in the Speak Random Text behavior.
- In the previous software version, a button to acknowledge an error message for an upgrade was not displayed. This has been corrected.
- In this software version, the upgrade checkmark is now displayed in the *System Settings* menu until the upgrade is actually completed.
- In the previous software release, the system menus did remain active when loading a User and a fatal error could result. This has been corrected.
- The User Setup Wizard can now be used to create a new user in German.
- The Series 5 software now only changes the Windows master volume setting temporarily as the need arises.

Known Issues

- When using a head mouse, a selected IR command may be sent more than once.
- If the Series 5 application is minimized when Eye Tracking (Blink) is the current selection method, the cursor may fail to appear on the desktop. **Workaround:** Blink once and the cursor will appear.
- The V/Vmax device may require a reboot if you load a video while Eye Tracking is the current selection method. **Workaround:** Stop the video, then load the next video.
- The DynaVox M3 pages with Set Language (other than English) cannot be imported into the Series 5 software. **Workaround:** Delete the Set Language behavior from the M3 page, then add it back into the page after you have imported the page.
- The calculator does not multiply floating point numbers or apply order of operations correctly.
- When you have a very thin onscreen keyboard, you cannot dock the *Tools* palette in the Page Editor.

- The Dashboard Hotspot is always in the title bar scan group.
- The control of the mouse cursor is lost during the playback of a new recording.
- When you have a very thin onscreen keyboard, or one with the title bar on the left, you cannot set the scan order. **Workaround:** Place the title bar on the top of the onscreen keyboard, then enlarge the onscreen keyboard, set the scan order, then set the size and position of the title bar.
- Both the Mouse Pause and Eye Tracking selection methods may stop working if you use an open system menu behavior from a popup that has been opened exclusively. **Workaround:** Do not open the popup exclusively, or do not open a system menu from an exclusive popup.
- When the user has a very thin onscreen keyboard and selects the Main Menu button in the Scanning selection method, the Up a Level arrow does not appear. **Workaround:** Select the Scanning switch twice.
- When the user imports a Boardmaker board into the Series 5 software with a button that inserts a symbol in the Message Window and also speaks text, the buttons on the resulting page in the Series 5 software will have the Insert Image and Text behavior. **Workaround:** Edit the Insert Image and Text behavior to only insert a space.
- If you are using a dedicated V/Vmax device and you send text from the Message Window to a remote computer using Eye Tracking (Blink), only the first character from the Message Window will be displayed on the PC. **Workaround:** You must convert your dedicated V/Vmax device to an open V/Vmax device.
- When the user changes from one language to another, strings disappear from Advanced Programming. **Workaround:** None. However, although the strings do not appear, the underlying behavior still functions appropriately.
- Background Images are not found when importing a user from a drive other than C:. **Workaround:** Install the Series 5 software on the C: drive.
- Selecting *Cancel* (when the desired word is already highlighted) in a multiple slot filler will prevent choices of subsequent slots. **Workaround:** Do not select *Cancel*. Directly select the word you want, even if it is already highlighted.
- When using the Application Manager with the *Hide onscreen keyboard and handle switches* option, the user may need to use Touch to return to the Series 5 software from the desktop. Alternately, the restored onscreen keyboard may display the Main Menu icon from a communications page instead of displaying the onscreen keyboard icons. If this occurs, the user must restart the Series 5 software.
- The following features do not operate properly on a dedicated device. If you intend to use these features, please contact DynaVox Sales/Customer Support at 1-800-344-1778 to obtain DynaVox Open Key (part number 600481, CD number 600496) and convert your device to an open device.
 - Highlight as you Speak stops speaking after one word if the user is using the Eye Tracking selection method on a dedicated device.

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- The mouse cannot be controlled while the Message Window is being spoken with the Highlight as You Speak option.
 - The AccessIT will not work correctly when an Eye Max is operating nearby. The IR command transmitted from the Eye Max will interfere with IR commands sent to the AccessIT. **Workaround:** Isolate EyeMax from AccessIT if possible.