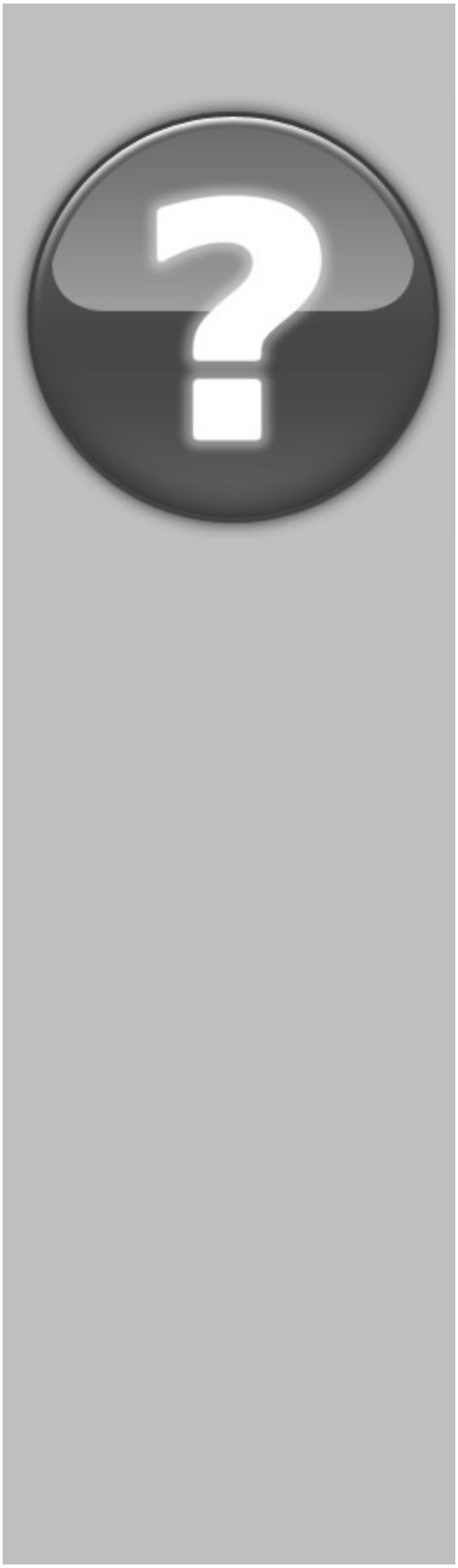

The ViVo Mouse®

User Guide

Versions: Lite, Standard, and Professional

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Table of Contents

The ViVo Mouse® User Guide....2
Installing the ViVo Mouse....4
The first time you use the ViVo Mouse....4
Starting the Software....4
Helpful Hints....4
Using the ViVo Mouse....4
Calibrating....5
Pointing and Clicking....6
Browsing the Internet....7
Voice Clicking (Standard & Professional Versions)....7
Recentering....8
Checking that the webcam is adjusted properly....8
Solitaire Practice....8
Voice Control of the ViVo Mouse....9
Voice Activated Commands for Standard & Professional Models....9
Click Control Commands (active only during Voice Clicking)....9
Cursor Movement Commands....9
Program Control Commands....10
Entering Text....10
Standard & Professional....10
Dictation....10
Spelling....11
Typing Numbers....11
Punctuation Commands....11
Typing Control Commands....12
Editing Control Commands....12
Lite version....12
Entering Text....12
Microsoft On-Screen Keyboard....13
Main Tabs on ViVo Program....13
Introduction....13
Start Up Tab....13
General Tab -....14
Speed Tab–....15
Dwell Clicking Tab -....16
Speech Tab....17
Video Tab....18
Video Stream....19
Video Quality Settings....20
Video Device - Properties....20
‘Zoom/Face Tracking’....20
Advanced Tab....21
Fine-tune motion....22
Other advanced settings....22
Troubleshooting Hints....23
ViVo Mouse gives error when you try to start it....23
Camera issues....23
Cursor not moving as expected....24
Microphone and Speech Recognition (Standard & Professional Models)....24
Contacting Technical Support....24
Keeping your ViVo Mouse™ settings when you install a new version....24
Saving your settings file to the desktop prior to installing new software....25
Alternate method:....26
Retrieving your settings file from the desktop after installing new software....26

Installing the ViVo Mouse

For information on how to install the ViVo Mouse, please refer to the ViVo Mouse Installation Guide, available at ViVo Mouse support page. Note: This guide is for all ViVo models, however please remember that the ViVo Lite does not integrate with speech recognition programs. This is frequently noted in the User guide. If you need to upgrade from the Lite and wish to activate speech recognition and associated advanced tabs, please contact us.

The first time you use the ViVo Mouse

Once the ViVo Mouse is installed, these are the basic steps to get the program up and running:
1. Start the ViVo Mouse software (follow instructions below)
2. Calibrate the ViVo Mouse (follow instructions below)
3. Check that the webcam is adjusted properly for use with the ViVo Mouse (follow instructions below and the section on the Video tab)

Before running ViVo Mouse the first time (and possibly, after an upgrade), you may need to:
1) Right-click on Vivo Mouse, and select Run As Administrator.
2) If it pops up another dialog asking for ALLOW, click ALLOW.
3) If you do not do this you may get an error such as: "Could not initialize application. Error 42 (IPM) Please contact technical support".

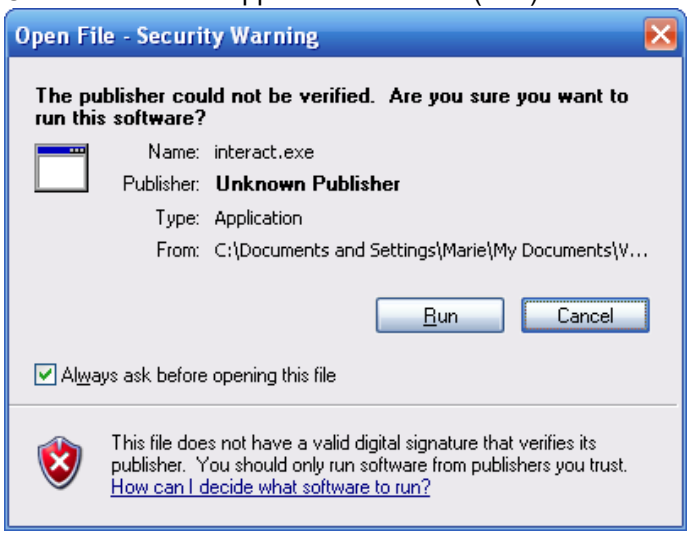
Starting the Software

1) Turn your computer on.

2) Click on 'Start' in the bottom left corner of your screen. Then click 'All Programs.' Select 'ViVo Mouse' to begin.

3) Alternately, the installation program typically places the 'ViVo Mouse' icon on your Desktop or within your 'Start' menu. You can open by simply double clicking the icon wherever it is.

4) If you get a Security Warning the first time, click 'Run' anyway.

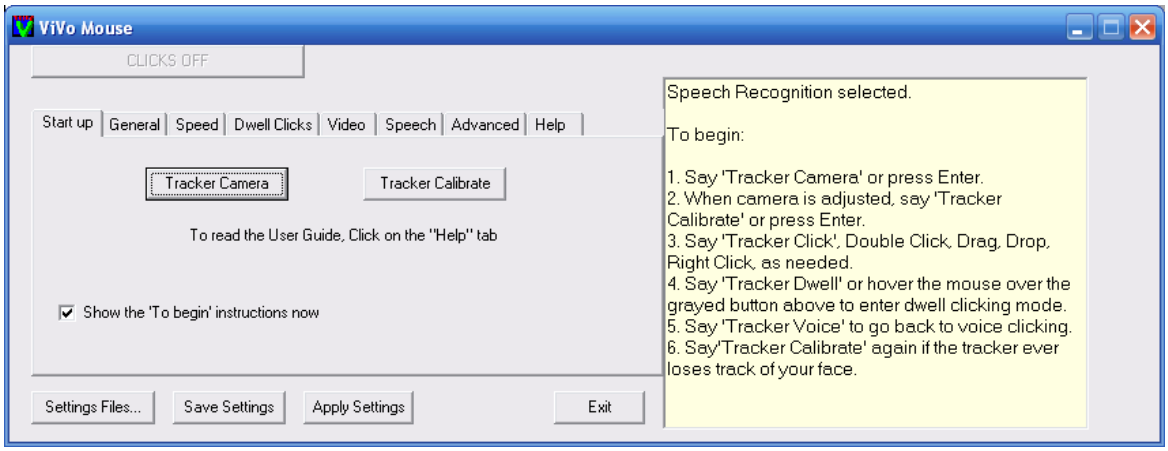


Helpful Hints

- Plug in the webcam and microphone before starting the ViVo Mouse program.
- If you plan to use voice clicking set up in a quiet place or use a high quality microphone.
- Adjust the volume of your speakers to a comfortable listening level.
- Experiment with different lighting to find what works best in your environment.
- Get yourself into a comfortable position for using the computer before calibrating.

Using the ViVo Mouse

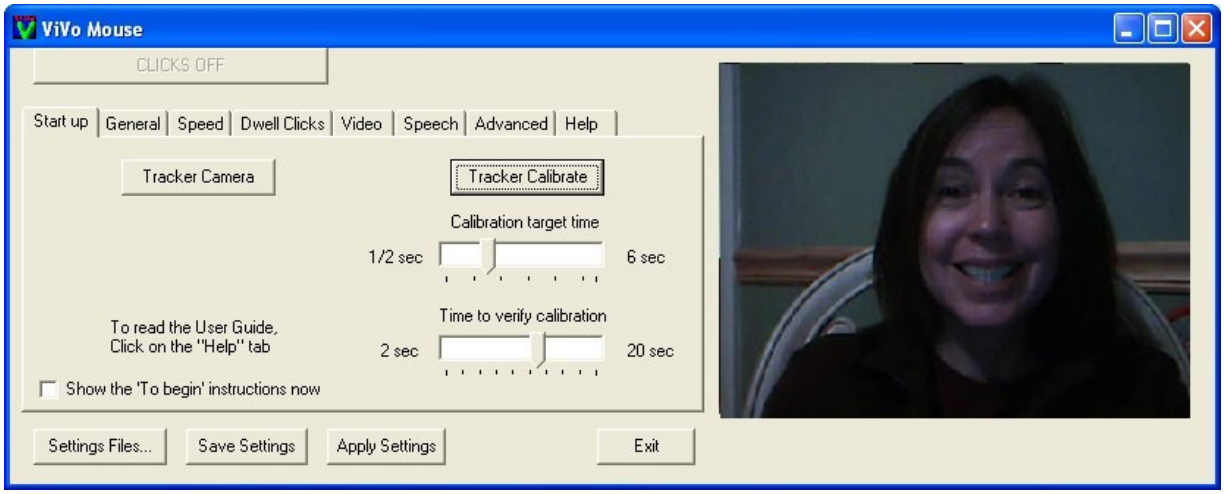
Once you start the ViVo Mouse program a couple of screens may appear temporarily and minimize automatically, then this screen will appear:



Get yourself into a comfortable position for using the computer.

Click or otherwise command ‘Tracker Camera’, or press the Enter key.

Now your face will appear on the ViVo Mouse display in the instruction box. Smile!

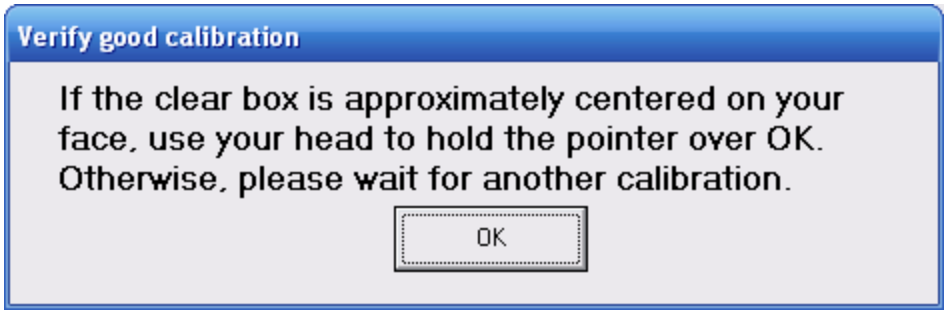


Make any necessary adjustments to center yourself in the camera’s viewfinder by tilting your screen, moving your body and/or repositioning the webcam. Your face should be entirely within the picture, and not too small.

Calibrating

The next step is to calibrate the ViVo Mouse to your movements. When you click on ‘Tracker Calibrate’ this bulls-eye will appear with instructions for you to follow it by turning your head as it moves and reappears on your screen. It is not necessary to exaggerate your motions since the ViVo Mouse is sensitive to subtle movements. Just keep yourself in a comfortable position and let the ViVo Mouse do the work for you. Yet another to start calibration way is to press the Enter key.

After following the bulls-eye with your head, not just your eyes, it will highlight a portion of your face within the displayed video frame. Then this box will appear asking if your face is centered properly in the highlighted area.



If the box is approximately framing your face, use your head to move and hold the cursor over 'OK.' If not, just wait for a few seconds and prepare to recalibrate by following the bulls-eye on the screen again. Recalibration will begin automatically if you don't put the pointer over 'OK.' (You can calibrate as many times as necessary, or at any time while using ViVo Mouse. Simply click on 'Settings' then 'Tracker Calibrate' or use the voice command "Tracker Calibrate" and follow the same procedure.)

After calibration, the Vortant ViVo Mouse control screen will minimize and this control bar will appear and remain at the top of your screen:

Pointing and Clicking

When the ViVo Mouse is first installed, it will automatically be in Dwell Clicking mode, unless it has been set up otherwise to you Voice Clicking. To click on something, you just hold the mouse pointer at the place you want to click, and after a brief time (which can be defined in the Dwell Clicking Tab), a click will occur. The control bar indicates the type of click that will be done.

To change the type of click your ViVo Mouse will make, hold the cursor over the 'Clicks Off' indicator and watch it flip through the following options. (Response time for this can be changed in General Tab.') The box will change to reflect your choices and you'll hear a sound with each change.

- 'Single Click' Enables you to single-click the mouse and use your computer.

- ‘Drag’ Enables you to move things around the screen and scroll quickly, essentially holding down the mouse button.
- ‘Drop’ is available only after a ‘Drag’, and lets you in effect release the mouse button.
- ‘Double Click’ Enables you to double click to open programs and documents.
- ‘Right Click’ Enables you to execute right click functions and pop up menus.
- ‘Clicks Off” Prevents you from clicking unintentionally.
- 'Auto Click' The ViVo Mouse attempts to choose the correct type of click for each click you do.

For example, when it is ready to do a simple left mouse click, the control bar will look like this:

You can override the program temporarily while using the ViVo Mouse by using the computer’s manual mouse. The amount of time before the system reverts back to the ViVo Mouse can be adjusted in ‘Settings’, as the Mouse Revert Time.

Now you can use the ViVo Mouse without saying a word. Move the cursor by moving your head and hold it over what you want it to click on.

If this is the first time you have used the ViVo Mouse, before doing much more, you will probably first want to check the webcam settings in the Video Tab. This will ensure you are getting optimum performance from your head tracker.

Browsing the Internet

Use your head movements to direct the cursor to the top of your screen and change ‘Clicks Off’ to ‘Double Click’ and open your internet browser in your usual way.

There are two options for typing text. You can either use Microsoft’s On-Screen Keyboard or verbal dictation if compatible speech recognition software is installed. See the section entitled Entering Text to learn more about this subject.

Change the setting to ‘Single Click,’‘Double Click,’‘Drag’ or ‘Right Click,’ with the button on the control bar. To perform certain tasks you will find that you may have to change these settings to achieve your goals.

Again, at the beginning it is simpler to maximize your active screen so that you don’t accidentally open other windows when you don’t want to.

Remember, if at any time the cursor seems unresponsive to your movements, just go back up to settings and recalibrate the ViVo Mouse.

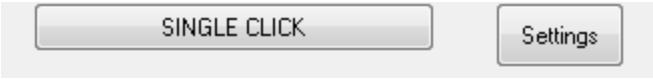
Related Topics: Troubleshooting Hints

Voice Clicking (Standard & Professional Versions)

If you have speech recognition running and selected in the Speech settings, your ViVo Mouse will automatically be in the Voice Clicking mode. This can be used for many applications. In this mode you can type text, numbers and punctuation, edit documents, explore the web, play games, move your cursor, and tell the ViVo Mouse exactly what you want it to do. Simply move your head to move the cursor and give a verbal command. Be aware that there is a slight delay that allows you to say the command a moment before you are exactly where you need to be to have the cursor respond. This

keeps things moving along nicely. (The section on Voice Activated Commands has a list with descriptions of all the commands your ViVo Mouse knows.)

If you are using dwell clicking and have a speech-recognition programming running, you can also always go back to using Voice Clicking by saying “Tracker Voice”. To return to dwell clicking mode just say “Tracker Dwell.” You will find it quick and easy to change from one application to another as needed.



If you wish to switch to Dwell clicking, say “Tracker Dwell” and the control bar will indicate you are in dwell clicking mode. Alternately, and especially if your speech recognition program has slowed down or become unresponsive, you can hold the mouse over the larger button for several seconds to cause the ViVo Mouse to switch to dwell clicking.

Recentering

If you find that the ViVo Mouse is not exactly where you'd like it to be, and you're not using a speech-recognition program, take the mouse pointer to the nearest corner of the screen. Hold it there for a second or two, and if the Recenter from Corners option in the Dwell-clicking tab is enabled, the ViVo Mouse will show you the familiar target at the center of the screen, allow you to point your head there, then re-center. If you are using a speech-recognition program, the ViVo Mouse has several powerful commands for putting the pointer where you want it. See Voice control of the ViVo Mouse.

Checking that the webcam is adjusted properly

Before using the ViVo Mouse for the first time, this is a great time to open the settings panel by clicking on Settings, then go to the Video Tab, and check that the frame rate of the camera is at least 14. If not, please go to the Video Tab and adjust your webcam to get a higher frame rate. The ViVo Mouse is usable with a lower frame rate, but will be ***much*** better with the higher frame rates!

Solitaire Practice

A good way to start familiarizing yourself with the ViVo Mouse is with a good old fashioned game of Solitaire. Click on Start in the bottom left corner, go to All Programs, go to Games and then click on Solitaire to open.

Starting out, it is best to maximize the Solitaire screen to keep the cursor on your game. As you get more adept at using the ViVo Mouse you will be able to go from one screen to another with confidence and ease.

When you start a new game, set the Tracker to ‘Single Click’ if you want to flip cards from the pile or to ‘Drag’ if you want to move cards around. The word ‘Drop’ will appear as the dragging action takes place. While playing Solitaire your command center will go back and forth between these two commands without scrolling through the other options unless you prompt it by holding the cursor over the command options for an extended time.

(Solitaire is an excellent way to experience the benefits of the Auto Click feature, as it greatly reduces the need to change the type of click. The ViVo Mouse figures out when you need to drag

cards, and when you need to just click on them.)

During Solitaire, and if using voice recognition with the ViVo (see Voice Control), you can also use Voice Clicking instead of dwell clicking by saying “Tracker Voice.” In this mode you will also need to use the verbal command ‘Drop’ after using ‘Drag’ command.

Voice Control of the ViVo Mouse

Voice Activated Commands for Standard & Professional Models

If the ViVo Mouse is configured to use a speech recognition program (see the Speech tab subtopic of Vivo Mouse Control Panel topic), it will start up in the ‘Voice Clicking’ mode automatically. If it does not detect a speech-recognition program, or if using the ViVo Lite, it will start up in Dwell Clicking mode.

To change to voice clicking from dwell clicking, say, “Tracker Voice.” This will change the command on the top of your screen to ‘Voice Clicking’ to let you know it has been activated.

If your speech-recognition program ever becomes slow or unresponsive, the ViVo Mouse is designed to help you recover from that situation. If you hover the mouse over the Control Bar where it says 'Voice Clicking', you will see a hint window as shown below.

After a few seconds, it will flip to dwell clicking mode, to allow you to click on the unresponsive speech program. The amount of time you have to hold the mouse over the Control Bar to activate this feature can be set in the ViVo Mouse Control Panel, under the Advanced tab (Dwell hover time).

While in Voice Clicking mode, the ViVo Mouse will recognize the Click Control Commands shown below.

Your ViVo Mouse knows a lot of voice commands. Following are lists of commands alphabetically by group that the program recognizes.

Click Control Commands (active only during Voice Clicking)

Click *or* Single Click - Single clicks the mouse.
Double Click - Double clicks the mouse to open programs.
Drag - Moves things around the screen, speeds scrolling, or selects text.
Drop - Releases items you are dragging.
Right Click - Performs right click to activate drop down menus.
Tracker Dwell - Switches to dwell clicking mode.
Tracker Voice - Switches back to voice-clicking mode.

(in Dragon, use the word 'Tracker' in front of the click commands, for example, "Tracker Click" to do a simple click)

Cursor Movement Commands

These commands move the mouse pointer to the place you want to work, if it's not there already. Use these commands frequently for maximum comfort!

Tracker Bottom - Moves cursor to the bottom of the screen.
Tracker Center - Moves cursor to the center of the screen.
Tracker Fast - Speeds up the tracker's movements after *Tracker Slow*.
Tracker Left - Moves cursor to the left.
Tracker Right - Moves cursor to the right.
Tracker Slow - Slows the movement of the cursor until the next click.
Tracker Top - Moves cursor to the top of the screen.

The following commands move the mouse pointer to the active window, or to most menus, lists, and dialogs after they pop up.

Tracker Bottom Window - Moves cursor to the bottom of the active window
Tracker Center Window - Moves cursor to the center of the active window.
Tracker Left Window - Moves cursor to the left. of the active window
Tracker Right Window - Moves cursor to the right of the active window.
Tracker Top Window - Moves cursor to the top of the active window.

Program Control Commands

Tracker Calibrate - Begins calibration.
Tracker Camera - Turns on camera when you first start the ViVo Mouse.
Tracker Disable - Turns ViVo Mouse pointer off temporarily. You can still enter text.
Tracker Enable - Turns ViVo Mouse back on after being disabled.
Tracker Settings -Opens the ViVo Mouse settings dialog.

Entering Text

There are at least three ways to enter text with the ViVo Mouse:

a) Dictation: you speak entire phrases and sentences, and they are entered into the document. This is available with the Dragon, e-Speaking, and Microsoft speech options in ViVo Mouse Standard and above.
b) Spelling: you pronounce individual letters and numbers, which are entered one-by-one into the document. This is available with all the speech options in ViVo Mouse Standard and above.
c) On-screen keyboard: In dwell-clicking mode, you can type letters by clicking on a software keyboard.

Note: There is one primary way to enter text with ViVo Lite, which is with an on-screen keyboard. In dwell-clicking mode, you can type letters and/or numbers by clicking on a software keyboard.

Standard & Professional

Dictation

With Dragon Naturally Speaking and e-Speaking, dictation is built into those programs, so you dictate as usual. The Vivo Mouse is not involved with the dictation.

With the Microsoft speech option, the ViVo Mouse provides commands to provide a very simple

dictation interface. Note that if you desire a more sophisticated dictation interface, we recommend you purchase a specialized dictation program.

To start dictation, issue the command **Tracker Dictate**. The ViVo Mouse pointer will stop moving and the speech engine will listen for your words and phrases and type them in. Note that results are usually best if you pronounce complete phrases, rather than individual words.

From the dictation mode, you can enter individual letters by saying **Tracker Spell**, or you can return to normal ViVo Mouse pointing by saying **Tracker Point** or **Tracker Enable**.

Spelling

With Dragon and e-Speaking, spelling is done with the usual way you spell using those programs.

When using the Microsoft speech option, you can start entering individual letters by saying **Tracker Spell**. When spelling with Microsoft, you use the international-standard phonetic alphabet below.

When in spelling mode, the ViVo mouse displays the handy 'cheat-sheet' below for your reference. From the spelling mode, you can change to entering entire phrases by saying **Tracker Dictate**, or you can return to normal ViVo Mouse pointing by saying **Tracker Point** or **Tracker Enable**.

Control, Shift, and Alt keys

You can type capital letters and use the shift and control keys with the ViVo Mouse. For example, to type an 'A', say "capital" or "shift", wait for the confirmation click from the ViVo Mouse, then say 'Alpha'. To do a control-X, you can say "control", then say "x-ray". Say "Caps Lock" to press the Caps Lock key if you want to type a series of capital letters. To press the Alt key, say the command **Alt Key**.

Typing Numbers

To type numbers, say the word "number", then the digit between "zero" and "nine." For example, to type the number 2008, say "number two", "number zero", "number zero", "number eight."

Punctuation Commands

Ampersand &
Asterisk *
At Sign @
Back Quote '
Backslash \
Caret ^
Colon :
Comma ,
Dollar Sign $
Double Quote “
Equals =
Exclamation Point !
Left Angle Bracket *or* Less Than <
Left Curly Bracket {
Left Parenthesis (
Left Square Bracket [

Minus -
Percent Sign %
Period .
Plus +
Pound Sign #
Question Mark ?
Quote “
Right Angle Bracket *or* Greater Than >
Right Curly Bracket }
Right Parenthesis)
Right Square Bracket]
Semi Colon ;
Single Quote ’
Slash /
Tilda ~
Underscore _
Vertical bar |

Typing Control Commands

Down Arrow Moves the cursor down one line.
End Moves cursor to the end of the line.
Enter Moves cursor & following text to start of next line.
Home Moves cursor to the beginning of the line.
Left Arrow Move cursor one space to the left.
Page Down Moves cursor down the page.
Page Up Moves cursor up the page.
Right Arrow Moves the cursor one space to the right.
Space Inserts one letter space at a time.
Tab Moves cursor across to preset tabs.

These commands are available whenever the speech system is running, you don't have to say **Tracker Spell** or **Tracker Dictate**.

Editing Control Commands

Backspace Moves cursor back on space and erases character.
Copy Copies selected text or image.
Cut Cuts selected text or image.
Delete Deletes text to the right of the cursor.
Paste Pastes selected text in a new place.

Entering text with the ViVo Mouse Lite version

There is one primary way to enter text with ViVo Lite, which is with an on-screen keyboard (OSK). In dwell-clicking mode, you can type letters and/or numbers by clicking on a software keyboard.

(Note: While the ViVo Lite can work side-by-side with speech recognition programs, it does not integrate with them. With Dragon Naturally Speaking and e-Speaking, for example, dictation is built

into those programs, so you dictate as usual. The Vivo Mouse is not involved with the dictation and/or spelling.)

The Microsoft on-screen keyboard worked for many years with ViVo Mouse, but the most recent versions of the OSK have security features that prevent software like ViVo Mouse from typing things into the OSK. Various third-party suppliers provide on-screen keyboards that you may find useful to entering OSK text with ViVo Mouse. Contact Technical Support for our latest tips on this subject.

Main Tabs on ViVo Program

Introduction

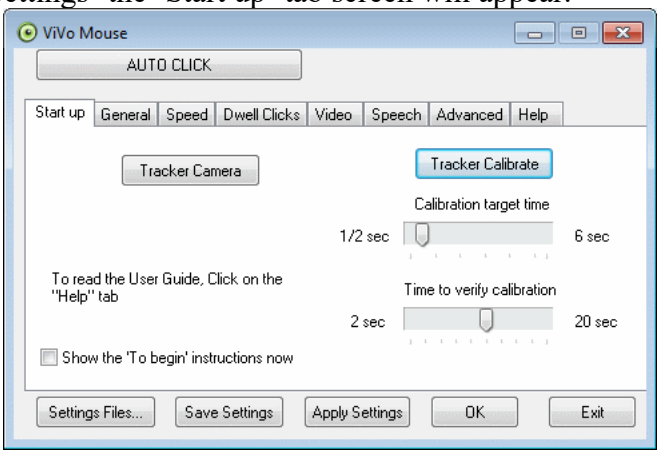
The ViVo Mouse program has been designed to start with settings that will be suitable for most users. Other than the commands used to change the way the program responds to you, few, if any other tabbed settings should need to be change. If you decide adjustments must be made, familiarize yourself with the following screen displays before altering the settings. The numbers and check marks you see displayed are the recommended settings.

If utilizing speech recognition, you can say ‘Tracker Calibrate’ and ‘Tracker Voice’ in any of these tabs. If at any time you find yourself in the ‘Settings’ mode when you don’t want to be simply click ‘OK’ to resume using the ViVo Mouse.

When you make changes to the ‘Settings’ you can click ‘Apply’ to activate them if you may want to make additional settings. Click ‘OK’ to activate the changes *and* close the window. To ensure the changes to your settings are available the next time you use the ViVo Mouse, use the 'Save Settings' button. You can use the 'Settings...' button to save or load specialized settings to other file names so that they aren't automatically loaded.

Start Up Tab

When you first click on ‘Settings’ the ‘Start up’ tab screen will appear.

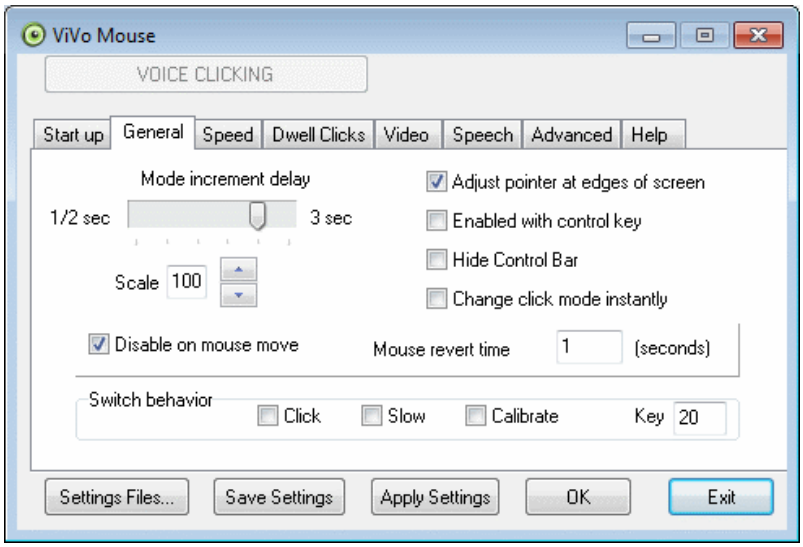


Here you can activate ‘Tracker Camera’ and ‘Tracker Calibrate’ with dwell clicking. You can also redisplay the ‘To begin’ instructions by checking the designated box.

- 'Time to verify calibration' determines the amount of time you have to place the pointer of the OK button right after calibration. If you have not positioned the pointer over the button in this amount of time, the calibration process will be repeated automatically.
- 'Calibration Target Time' determines the amount of time the 'Bulls Eye' will pause in each of the different positions on the screen during calibration.

General Tab -

Allows you to change various timing, usage and mouse settings.



- 'Mode Increment Delay' determines the amount of time between click options when navigating click command settings. (i.e., changing between Clicks Off, Single Click, Drag, etc.)
- 'Adjust Pointer at Edges of Screen,' when checked, will re-align the pointer if it gets out of sync with the head and minimize unnecessary movement by the user. If it is checked, when the user moves the pointer past the edge of the screen in any direction as soon as they move in the opposite direction the pointer will move away from the edge. If it is not checked, the pointer doesn't start moving in the opposite direction until the user's head is at the same position as when the pointer reached the edge of the screen.
- 'Hide Control Bar' puts the bar with the 'Voice Clicking' button into the system tray at the bottom-right of your screen, instead of placing it at the top of the screen. This is useful if you are running low on screen space.
- 'Enabled with control key': For even more "control" while in Dwell Click mode you can hold down the 'Ctrl' key to avoid clicking. In this mode, the pointer moves only when you are pressing the control key. Clicks are not made until you release the control key. If you press any other keys while holding the control key, no click will be made when you release the key. This can be helpful when reading long documents or news stories. Some people find it is easier to use the computer in this mode, because it feels more like using the regular mouse in some ways.

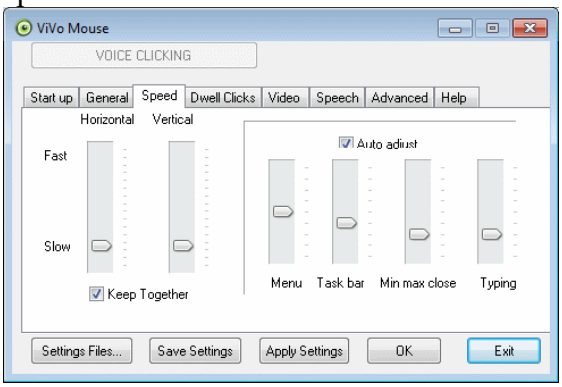
Note: If you use the control key mode with Voice Clicking, be sure to release the control key before issuing the voice-click commands. The ViVo Mouse will not do the clicks if you issue the commands while the control key is still pressed.

'Change click mode instantly' causes the dwell-click type to instantly flip to the next clicking type (for example, from single click to drag) when you move the pointer over the control bar button. When unchecked, the program waits for a bit before doing so. If you find that you accidentally change dwell-click type frequently, try un-checking this box.

- 'Disable on Mouse Move' allows you to override the ViVo Mouse automatically whenever you use the computer's manual mouse.
- 'Mouse Revert Time' determines how long the manual mouse must be stationary after use
- before the system automatically reverts back to the ViVo Mouse.
- 'Switch behavior' allows you to use a single keystroke or a USB switch (programmed to act like a keyboard keystroke) for various ViVo Mouse functions. The number in 'Key' defines which key you want to use. For example, 19 is the Pause key, 20 is the CapsLock key, 27 is the Esc key, 144 is the NumLock key and 145 is ScrollLock. The appropriate key depends on what you use it for, to minimize side effects. If 'Slow' is checked, the switch will cause a click of the type shown in the control bar. If 'Slow' is checked, the switch acts to go between normal pointing and slow motion pointing for better aiming. Calibrate will cause a recalibration. This key will always do a 'Tracker Camera' and a 'Tracker Calibrate' when the ViVo Mouse is first started.

Speed Tab–

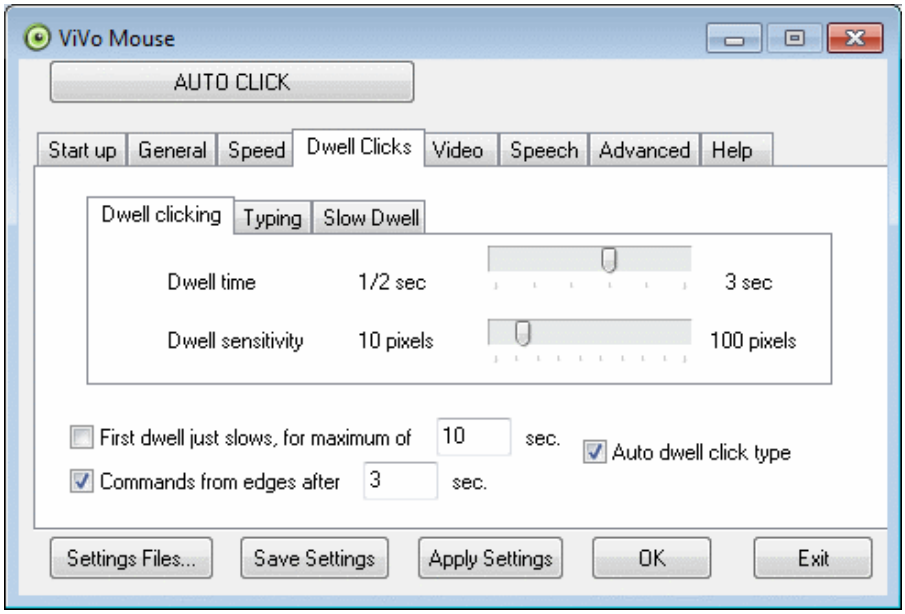
Allows you to make incremental adjustments to the speed that the mouse moves overall, and while you are performing specific actions.



- You can adjust ViVo Mouse speeds independently while moving horizontally or vertically. Check the 'Keep Together' box if you want the speeds in both directions to be the same.
- 'Auto adjust' box, when checked, tells the ViVo Mouse to use the settings in that panel for different contexts. This also enables the ViVo Mouse to help you zero in on small objects. When unchecked, the pointer moves at the same speed in all applications.
- 'Menu' adjusts the speed of the mouse in various menus.
- 'Task Bar' adjusts speed while navigating the task bar at the bottom of the screen.
- 'Title Bar' adjusts the speed when selections are being made from title bar at the top of the
- window.
- 'Typing' adjusts the speed the mouse travels while typing.

Dwell Clicking Tab -

Enables you to change dwell time and sensitivity of the cursor.

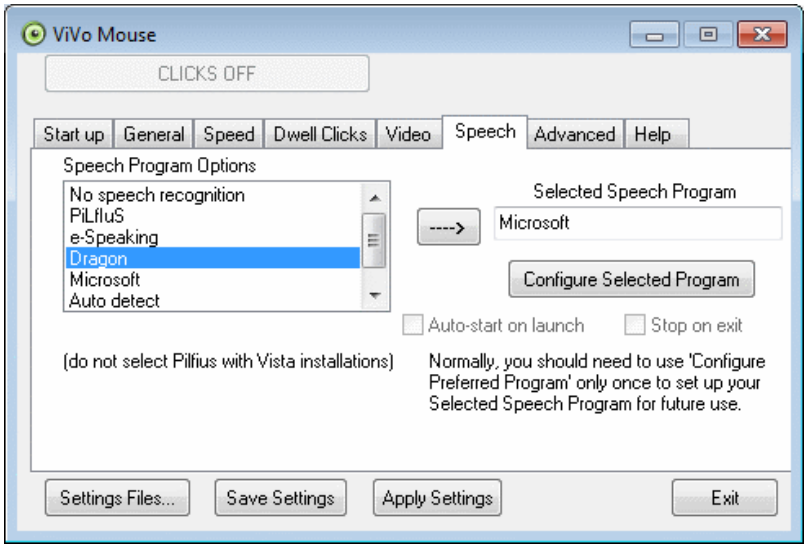


There are multiple tabs where you can set the dwell time and the dwell sensitivity for various circumstances. The "Dwell clicking" bug is for the normal operation of clicking with dwell. The "Typing" tab allows you to have different settings for on-screen typing. The "Slow Dwell" mode is for clicking during the slow-motion head tracking, which is enabled with the "First dwell just slows" button, described below.

- ‘Dwell Time’ determines the amount of time in seconds that you must hold the cursor in place before a click occurs.
- ‘Dwell Sensitivity’ determines how steady you must be in the placement of the cursor to get a click. (A higher number lets you be farther away.)
- 'Auto dwell click type' enables the Auto Click feature to be used during dwell clicking - with this feature, the ViVo Mouse attempts to choose the appropriate type of click for what you are doing.
- 'Re-center from corners', when selected, causes the ViVo Mouse to re-center the mouse pointer if you hold the pointer in any of the four corners of the screen for a few seconds. This is like saying the 'Tracker Center' command, but with dwell clicking.
- 'First dwell just slows', when selected, causes the ViVo Mouse to operate in a two-phase mode. This may be useful if you have trouble placing the pointer exactly where you want. When you first dwell, instead of a click happening, you will hear a sound effect, and the pointer will move much more slowly, allowing you to place it more accurately. Now, when you dwell, a click will happen. The actual pointer speed during this mode can be set in the 'Advanced' tab.

Speech Tab

Enables you to set up and configure speech recognition software



Note: Since the ViVo Lite does not integrate with speech recognition programs, this tab is disabled in this model. To upgrade, please contact us through our website.

The ViVo Standard and Professional models know about several different speech-recognition software programs. Although they can be used with many speech-recognition programs, they can set up the speech commands only for the programs they know about or interface with. The ViVo Professional interfaces with e-Speaking, Microsoft, Dragon Premium (formerly Preferred) and Dragon Professional. The ViVo Standard interfaces with all of the aforementioned except Dragon Professional. Note: The ViVo does not interface with Dragon Home Edition.

The list on the left shows the programs that ViVo Mouse knows about. To tell the ViVo Mouse which speech-recognition program you prefer to use, select it by clicking on it and press the ---> key to set it as your **Selected Speech Program.** To use your computer's built-in speech recognition capabilities, select the "Microsoft" option, if it appears in the Speech Program Options list. When the ViVo Mouse is started, it checks for your preferred speech program first. (Note that setting the Preferred Speech Program does not start that speech program immediately - it only tells the ViVo Mouse to use this program when it starts up.)

The 'Auto detect' option tells the ViVo Mouse to check for any of the recognized speech-recognition programs. In auto-detect mode, if no other speech-recognition programs are found, the ViVo Mouse will start the built-in Microsoft program.

Click on ‘Configure Program’ to set up the preferred speech-recognition program to recognize the ViVo Mouse commands. Follow any additional instructions that may be provided. Most speech recognition programs will need to be restarted before they will recognize the ViVo Mouse commands that have just been installed. Once you configure your speech-recognition program, you should not have to use the 'Configure Program' button for that program again, unless you re-install it.

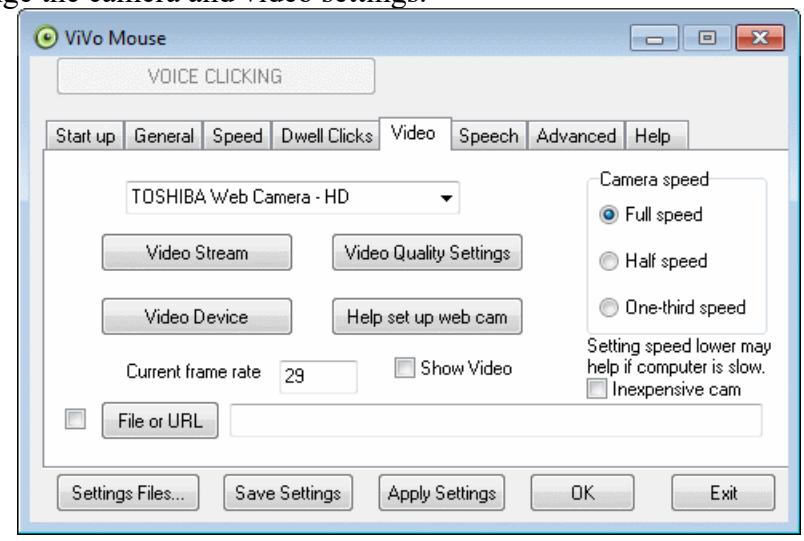
‘Auto-start on launch’ should be checked if you want the ViVo Mouse to start the preferred speech program when you start the ViVo Mouse. However, if you typically have the speech program running before using the ViVo Mouse, don't check this button.

Similarly ‘Stop on exit’ tells the ViVo Mouse whether to turn off the speech recognition program

when ViVo Mouse program is exited.

Video Tab

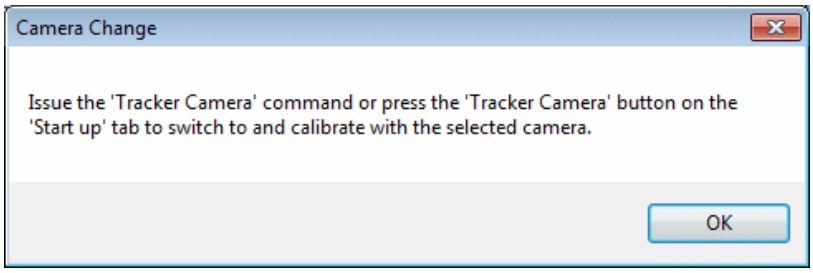
Enables you to change the camera and video settings.



Note: Since the dialog boxes below change the web cam image, you may have to do a 'Tracker Calibrate' after you have changed settings as described below.

The first white box can be used to select between multiple cameras, if you have multiple video devices installed on your computer. If the first white box is empty, use the down arrow to scroll through your camera options. After you select the equipment if this box appears click OK and follow the instructions.

Then after you have recalibrated, return to the ‘Video’ tab in ‘Settings’ and save.



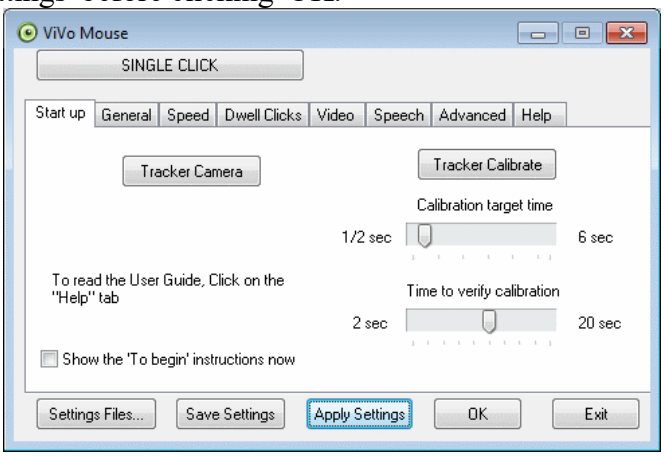
‘Camera Speed’ should be kept at Full Speed unless you’re using an older computer. Some speech recognition software can also cause computers to slow.

Checking the 'Show Video' box will display your image.

'Help set up web cam' will open a help file with step-by-step instructions for configuring your web cam appropriately if it is not providing the performance you need. For example, if the frame rate shown is below 14, you may need to make adjustments to the webcam to correct this for smoother pointing.

If using a very inexpensive web cam (not recommended), and you are having problems controlling the pointer, check the box in the lower right and click ‘Apply Settings’. This will add a stabilization

button to the ‘Start up’ tab. If you find that the web cam is not doing a satisfactory job of tracking your movements, go back and click ‘Stabilize’ and ‘Apply Settings.’ If this is the camera you will usually use click 'Save Settings' before clicking 'OK.'

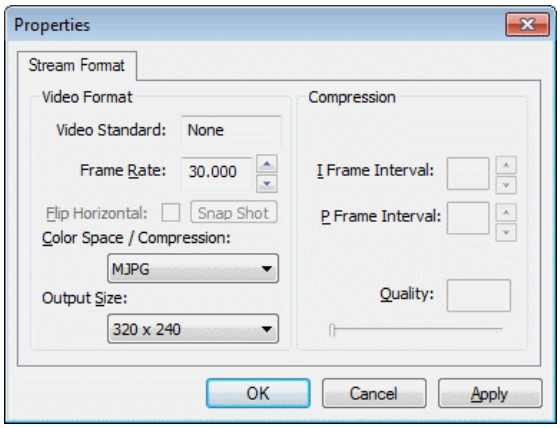


Important: This window also shows the frame rate, which can be helpful in problem-solving. Typically, rates at or above 14 indicate good performance; lower rate may indicate need for adjustment. If you see a frame rate that is low, please go through the steps shown in the following figures.

Video Stream

–Enables you to make adjustments to video image quality.

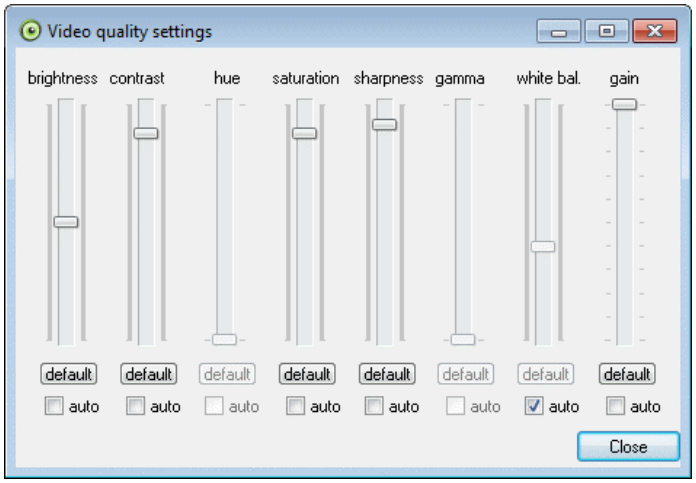
Note: The camera may stop working while the "Video Stream" dialog box is up, because this changes the operation of the webcam.



- ‘Frame rate’ determines how fast the video is coming from the camera. Ideally it should be above 10.000 otherwise it may be worthwhile to make some adjustments. (See section on Troubleshooting if adjustments become necessary.)
- ‘Color Space / Compression’ controls the density of images. (I420 is recommended.)
- ‘Output Size’ determines how detailed the image being produced is. (approximately 320 x 240 is best.)

Video Quality Settings

allows you to adjust picture quality as you would a TV. To make changes, unclick ‘auto’ in appropriate column and slide the bar to adjust.



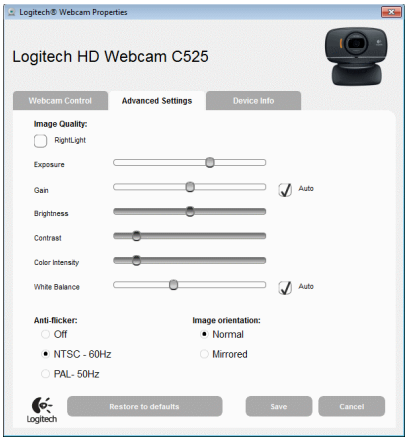
Video Device - Properties

Enables you to make adjustments to your video settings. The window that will be displayed offers tabbed adjustment options. Keep in mind this command activates menus supplied by the individual web cam manufacturers, so actual contents and lay-out may vary. (The following images correspond to the Logitech C525 web cam. Some of the displays may be different for your webcam)

Zoom/Face Tracking

For best results, keep ‘Zoom’ at 100% and the face tracking off (Follow my face).

‘Device Settings’ under Video ‘Properties’ and ‘Advanced Settings’ tab under ‘Video Device Properties’ will show dialog boxes that may look like this:



These TV type adjustments affect how you see yourself on the screen. Once you begin using the ViVo Mouse this screen minimizes so you see yourself only during calibrations.

To change the gain or camera exposure adjustment for different lighting, adjust the slide bars for 'Exposure' and 'Gain' (unclick the 'Auto') until desired image is achieved.

The 'Image Orientation' options change your image on the screen.

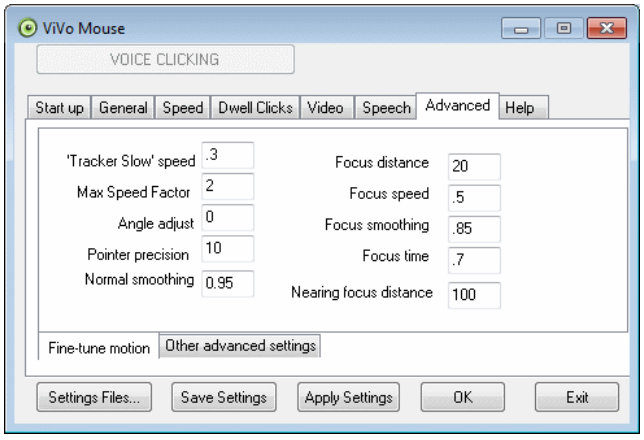
Caution: Selecting "Mirrored" makes it very difficult to control your ViVo Mouse. In the event you check "Mirrored" while using ViVo and it begins the calibration process, exit ViVo Mouse. After you restart and turn the camera on, but *before you calibrate,* open the Video Tab, click on Video Device, go to the Advanced Tab and uncheck this selection. (If you want to see what your image looks like temporarily you can check them, but **don't** click OK or Apply while they are checked.)

Always keep the Image Orientation on "Normal" while using the ViVo Mouse.
The 'Anti Flicker' setting should be set for the area where you are.

Advanced Tab

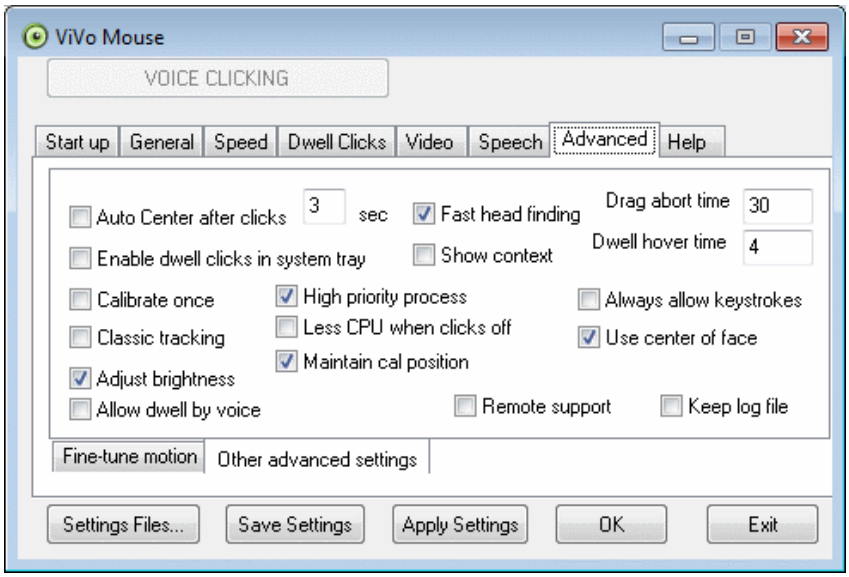
Enables you to change focus, drag about times, and other settings within two tabs: "Fine-tune motion" and "Other advanced settings."

Fine-tune motion



- ‘Tracker Slow Speed’ is the relative speed of the pointer when you use 'Tracker Slow' command.
- ‘Max Speed Factor’ controls how much faster than normal the cursor is allowed to move if the program detects a discrepancy between where the head is pointed and where the cursor is.
- 'Focus Distance', 'Focus Speed', and 'Focus Time': ‘Focus Distance’ is a distance in pixels. If you hold the pointer within this distance for the 'Focus Time' length of time, the ViVo Mouse decides you are trying to focus on a small object. Then, it slows the speed down to the 'Focus Speed' amount until you click or until you move the pointer away from the focused area.

Other advanced settings



- ‘Drag Abort Time’ determines the amount of time the program allows to execute a drag before it decides you really didn't want to drag. It will then automatically perform the 'drop' action after that amount of time.
- ‘Dwell Hover Time’ determines the amount of time it takes to put the ViVo Mouse into dwell clicking mode when you hold the pointer over the control bar. This may be useful, for example, if you are using a speech recognition program that gets slow or unresponsive, and you want to click on the speech-recognition interface to regain control.
- ‘Auto Center after clicks’ when checked, allows you to direct the cursor to automatically return to the center of the screen after each click. Select number of seconds this takes to occur. This feature was requested by one of our first users.
- ‘Enable dwell clicks in system tray’ may be useful when a speech recognition program is running. Sometimes the speech-recognition program can slow down or become unresponsive, but it or the ViVo mouse may be found only by their icons in the system tray (the lower right-hand icons on your screen). If this box is checked, you can always use dwell clicking in the system tray, even if ViVo Mouse is in Voice Click mode.
- ‘Adjust Brightness’ allows the program to automatically adjust to various light conditions.
- ‘High Priority Process’ when checked enables the ViVo program to obtain sufficient processor resources to run smoothly when downloading videos and games. If videos or games aren’t running quite as fast as you want, try un-checking this box, but keep in mind the ViVo Mouse may be somewhat less responsive if you do.
- ‘Allow Dwell by Voice’ when checked will allow you to switch to Dwell Clicking by using

the voice command, ‘Tracker Dwell.’
- ‘Show Context’ when checked will display the context being viewed in the settings box.
- 'Remote Support' should be checked if you are on a technical support call and the engineer you're talking with will explain how to use it.
- ‘Keep Log File’ when checked creates a file with information about the system that may be of use to a Technical Support person if the user is experiencing difficulty. Check this box only after you begin experiencing technical problems you feel you’ll need technical support to remedy.

Troubleshooting Hints

ViVo Mouse gives error when you try to start it

Before running ViVo Mouse the first time (and possibly, after an upgrade), you must:
1) Right-click on Vivo Mouse, and select Run As Administrator.
2) If it pops up another dialog asking for ALLOW, click ALLOW.
If you do not do this you may get an error such as:
"Could not initialize application. Error 42 (IPM) Please contact technical support".

Camera issues

Restart by starting ViVo Mouse and clicking ‘Turn on Camera.’

If your camera doesn’t seem to be functioning properly, go to ‘Settings’ then ‘Video.’ Make sure camera is set to ‘Full Speed.’ Also check that your ‘Frame Rate’ is at least 10, and ideally at 14 or above. If it isn’t, click ‘Video Device’ then ‘Advanced’ and make sure ‘Low Light Boost’ and‘Color Boost’ boxes are unchecked. (Having these ‘advanced’ webcam features on often causes the webcam to operate more slowly.) More details about these settings can be found in the Video Tab topic.

For some computers ‘Automatic Gain Control’ in this ‘Advanced’ tab should be OFF. However, if it is off (unchecked) make sure exposure time is set to 1/15 second or faster.

Click on the ‘Video Stream’ button. Frame rate should be relatively fast, such as 25 or 30.

Color Space/Compression should typically not be RGB24, but a compressed format such as I420.

Output size should be at least 320 x 240.

Click on the ‘Video Quality Settings’ button. Typically, it does not affect frame rate, but you can try to set the ‘auto’ button of ‘Gain’ to not checked if the frame rate is being too slow. Try moving the ‘gain’ slide control bar close to the top before rechecking your frame rate.

Cursor not moving as expected

If your cursor does not seem to be responding properly to your movements, the easiest way to get things back in sync is to issue the 'Tracker Enable' command. This will look for your face and start the pointer accordingly. If that doesn't help, you can go to ‘Settings’ and click on ‘Calibrate,’ or say 'Tracker Calibrate' if you are using a Speech Recognition program. Remember to always get into the

position you want to be in before calibrating so that you are still when the camera begins calibration. If the calibrate box drawn by the program isn't correctly framing your face in the image, the tracking will not be as good.

Microphone and Speech Recognition (Standard & Professional Models)

- First check that microphone is close enough to you and directed towards your mouth.
- Make sure it is plugged into the proper receptacle recognized by your computer.
- Check batteries for strength and installation; turn microphone on.
- If the microphone still doesn't seem to be functioning properly go to your Control Panel to make sure that the correct device is being used. Open 'Sounds and Audio Devices' then click the 'Voice' or 'Audio' tab. Under Voice Recording check to see if the default device is set to your speech recognition microphone, NOT the web cam microphone. If it is set to your web cam's microphone, change the setting. It is always good to test your hardware after checking or adjusting this setting.
- Sometimes, other software may change the settings of the microphone gain, so check to make sure it is not turned low. It's also possible that you need to re-train the voice recognition software to more accurately understand your speech.

Contacting Technical Support

If the instructions in this guide didn't solve your problem, please contact Technical Support to get additional help. Here is our contact information:

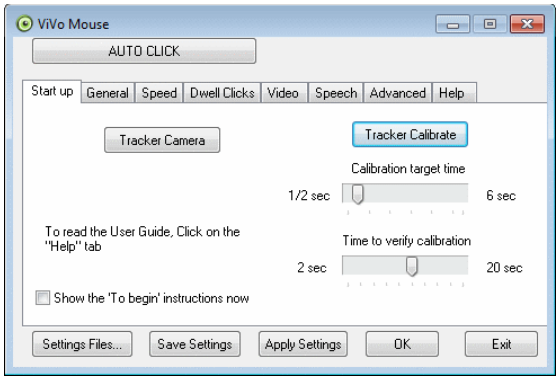
Web: www.vortant.com/support.html
E-mail: support@vortant.com
Telephone: (828) 645-1026 x111
Fax: (828) 237-4141

Keeping your ViVo Mouse™ settings when you install a new version

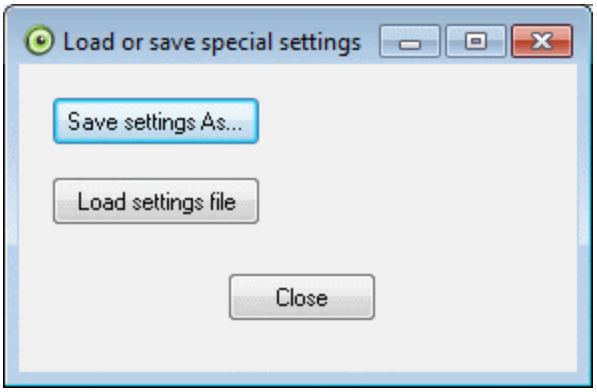
Under Windows, when you install a new version of the ViVo Mouse, your settings files may sometimes be replaced with the factory default settings. If you have made settings adjustments and you would like to keep them, you may wish to save your settings file to the desktop prior to the installation. After installing the new software, you can load the settings file from the desktop.

Saving your settings file to the desktop prior to installing new software

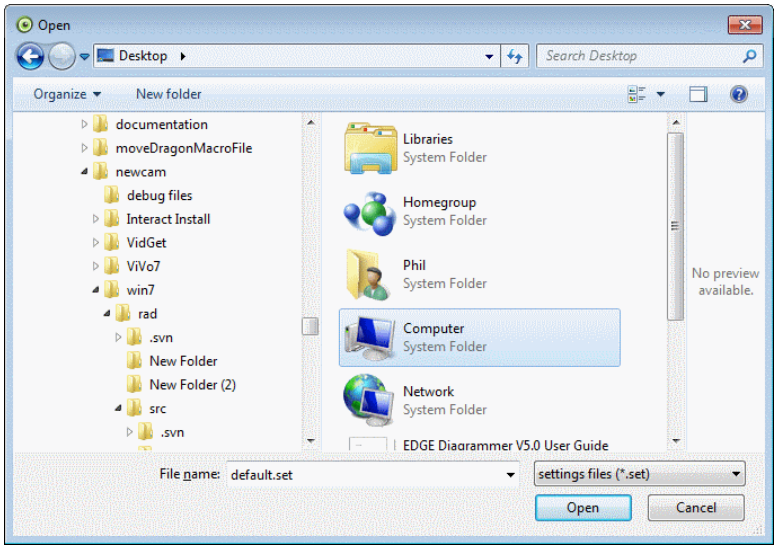
Start the ViVo Mouse.



Click on the ***Settings Files...*** button. The following dialog box will appear:



Click on the ***Save settings As...*** button. The ***Save As*** dialog box will appear.



Navigate to the Desktop as shown. Give the file any name you want, such as “My settings.set”. Click on ***Save***, and your settings file is saved to the desktop.

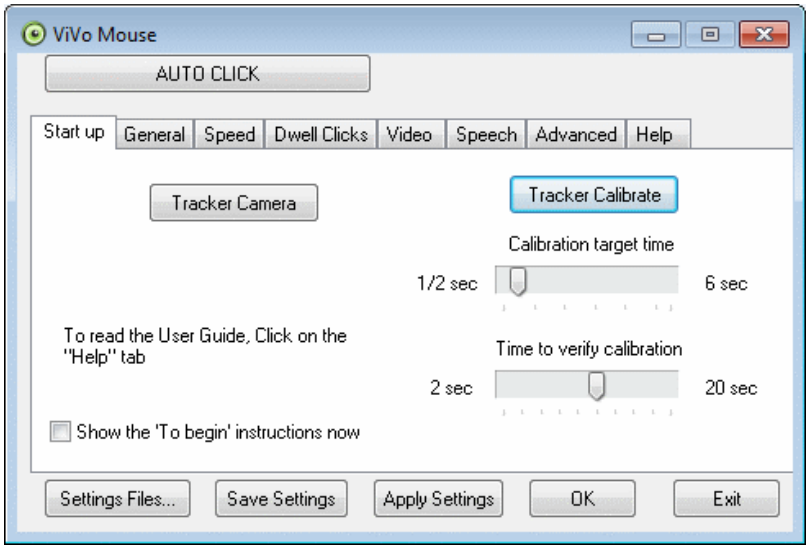
Now you can install the new ViVo Mouse software without having to manually reset all the settings in the new version.

Alternate method:

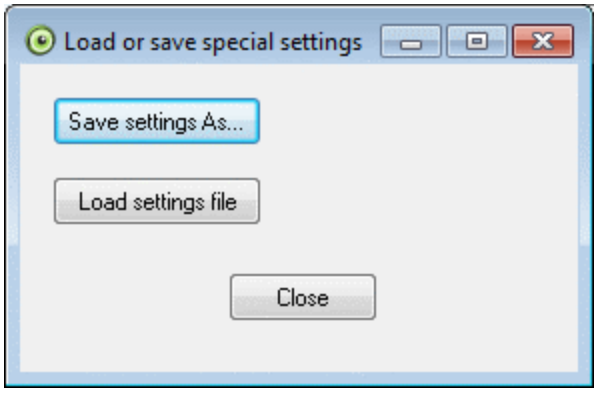
If you wish to save your settings file without starting the ViVo Mouse software, navigate to C:\Program Files\Vortant\ViVo Mouse (or the location where you have installed the software) and manually copy the file named "UserSettings.set" to the desktop. To restore your settings, follow the directions in Part II, below.

Retrieving your settings file from the desktop after installing new software

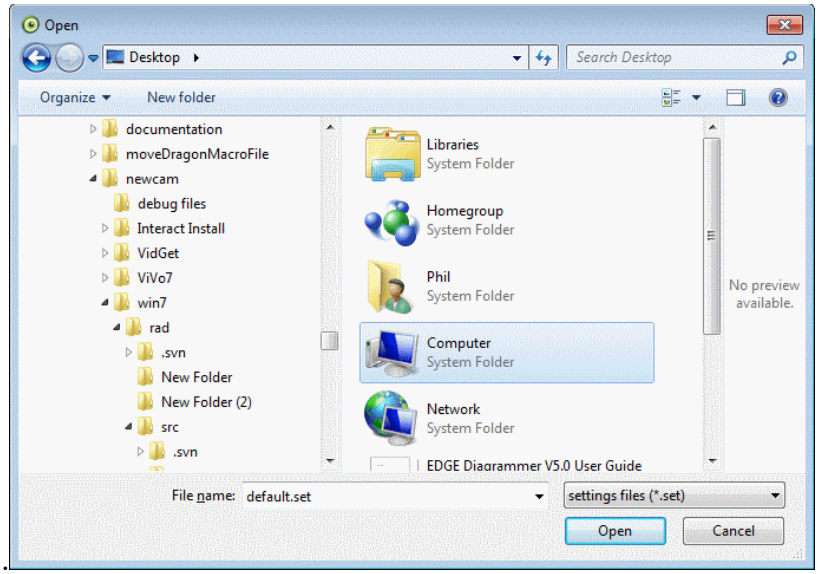
Start the ViVo Mouse.



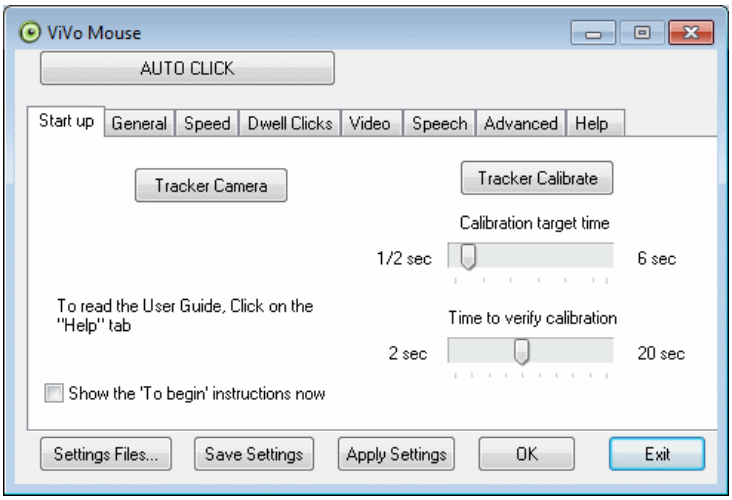
Click on the ***Settings Files...*** button. The following dialog box will appear:



Click on the ***Load settings file*** button. The ***Open*** dialog box will appear



Click on the settings file you stored above. Then click on the ***Open*** button.



Finally, click on the ***Apply Settings*** button to put the settings into effect, and click on the ***Save Settings*** button to retain the settings for the next time you start the ViVo Mouse.