

Tobii Dynavox Gaze Point User's Manual



User's manual Tobii Dynavox Gaze Point

Version 1.0

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Please check Tobii Dynavox web site www.TobiiDynavox.com for updated versions of this document.

Table of Contents

1	About Tobii Dynavox Gaze Point	4
1.1	Intended Use	4
1.2	System Requirements	4
2	Installing, Running and Updating Tobii Dynavox Gaze Point.....	5
2.1	Installing Tobii Dynavox Gaze Point with Gaze Point.....	5
2.2	First Start Up	5
2.3	Updating the Tobii Dynavox Gaze Point.....	5
3	Using Tobii Dynavox Gaze Point.....	6
4	Gaze Point Settings	7
4.1	Eye Tracker	7
4.1.1	The Calibration Tab	7
4.1.2	The Advanced Tab	10
4.2	General Settings	11
4.2.1	The General Tab	11
4.2.2	The About Tab	12
4.3	Activation & Feedback	12
4.3.1	The Activation Tab.....	12
4.3.2	The Feedback Tab.....	13
4.4	Help and Usage	14
4.4.1	The Help Tab.....	14
4.4.2	The Usage Tab	15

1 About Tobii Dynavox Gaze Point

1.1 Intended Use

Take full control of your computer with just your eyes or with your eyes and a switch. You can emulate all type of mouse actions, swipe actions and type in text with our award winning software. We have also added smart shortcuts to make it even easier to access all parts of Windows!

1.2 System Requirements

Component	Requirements
Computer and processor	2.0 gigahertz (GHz) or faster, Dual-Core processor (recommended minimum).
Memory (RAM)	4 gigabyte (GB) RAM (recommended minimum).
Hard Disk	450 megabytes (MB) available.
USB	USB 2.0
Operating System	<p>Tobii Dynavox Gaze Point runs on both 32-bits and 64-bit versions of Microsoft Windows operating systems. When you run Tobii Dynavox Gaze Point 32-bit on a 64-bit version of a Windows operating system, the program runs in the 32-bit layer of the Windows operating system.</p> <ul style="list-style-type: none">• Windows 7 (64-bit)• Windows 8.1 (32-bit or 64-bit)• Windows 10 (32-bit or 64-bit)
.NET version	4.5
Eye tracker	Any Eye tracker from Tobii Dynavox or Tobii Tech that supports Tobii Eye Tracking Core Software.
Additional requirements and considerations	Connection to internet is necessary for License activation.
Tobii Eye Tracking Core Software	Version 2.8 or later.

2 Installing, Running and Updating Tobii Dynavox Gaze Point

2.1 Installing Tobii Dynavox Gaze Point with Gaze Point

1. Go to www.tobiidynavox.com/dl/gaze-point and download the Gaze Point software.
2. Install the Gaze Point.
3. Follow the directions on the screen.

2.2 First Start Up

When Tobii Dynavox Gaze Point is launched for the first time a Configuration Guide will guide the user through the start up configuration of Tobii Dynavox Gaze Point. The steps in the guide are:


- Setup the display. For more information, see *4.1.2.1 Setup Display, page 11*.
- Create new profile. For more information, see *4.1.1.1 Create New Profile*.
- Test calibration, For more information, see *4.1.1.3 Test Calibration*

2.3 Updating the Tobii Dynavox Gaze Point

Tobii Dynavox regularly releases updated versions of the Gaze Point software.

During the installation of the Gaze Point software, the Update Notifier software will be installed on the device. The Update Notifier will, if the device is connected to the Internet, automatically check for updated versions of the Gaze Point software and other Tobii Dynavox software installed on the device.

To manually check for new updates of the Gaze Point software, look up the Update Notifier application on the device and select

the  (Update Notifier) icon to start the application.

3 Using Tobii Dynavox Gaze Point

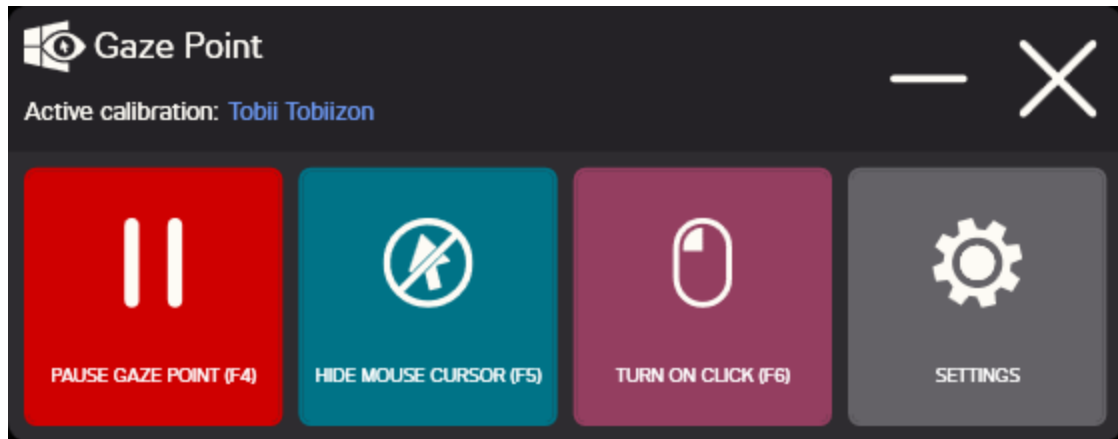
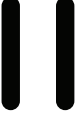








Figure 3.1 Gaze Point Controller

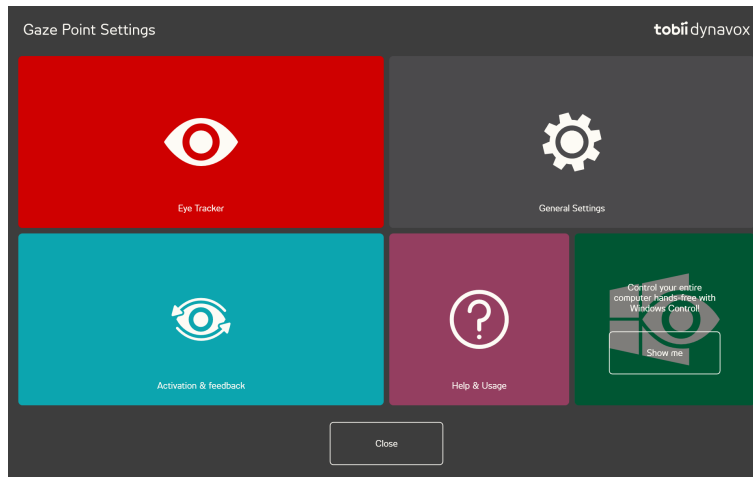
Table 3.1 Icons in Gaze Point Controller





Symbol	Description	Symbol	Description
PAUSE GAZE POINT (F4) 	Select this button to Pause Gaze Point or Select the Keyboard shortcut, written in brackets after the description..	START GAZE POINT (F4) 	Select this button to Start Gaze Point or Select the Keyboard shortcut, written in brackets after the description.
HIDE MOUSE CURSOR (F5) 	Select this button to Hide the Mouse Cursor or Select the Keyboard shortcut, written in brackets after the description. .	SHOW MOUSE CURSOR (F5) 	Select this button to Show the Mouse Cursor or Select the Keyboard shortcut, written in brackets after the description.
TURN ON CLICK (F6) 	Select this button to Turn On left click or Select the Keyboard shortcut, written in brackets after the description. .	TURN OFF CLICK (F6) 	Select this button to Turn Off left click or Select the Keyboard shortcut, written in brackets after the description.
SETTINGS 	Select this button to access the Settings for Gaze Point, see 4 Gaze Point Settings, page 7.		



Using a physical computer mouse or a touch screen will take precedence over the Gaze Point software.

4 Gaze Point Settings

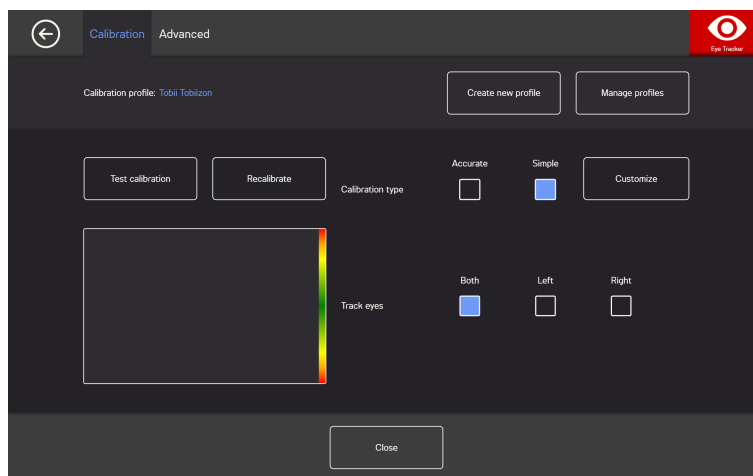


Icons	Action	Description
	Eye Tracker	Opens the Eye Tracker settings. For more information, see <i>4.1 Eye Tracker</i> , page 7.
	General Settings	Opens the General Settings. For more information, see <i>4.2 General Settings</i> , page 11.
	Activation & Feedback	Opens the Activation & Feedback settings. For more information, see <i>4.3 Activation & Feedback</i> , page 12.
	Help & Usage	Opens the Help & Usage settings. For more information, see <i>4.4 Help and Usage</i> .

4.1 Eye Tracker



4.1.1 The Calibration Tab



Calibration profile: Will show the name of the profile that is active.

Create new profile: Select this button to create a new profile. For more information, see *4.1.1.1 Create New Profile, page 8*.

Manage profiles: Select this button to change to an already existing profile. For more information, see *4.1.1.2 Manage Profiles, page 8*.

Test calibration: Select this button to open the test calibration page. For more information, see *4.1.1.3 Test Calibration, page 9*.

Calibration type: There are two (2) different types of calibration: **Accurate** or **Simple**. For more information, see *4.1.1.5 Calibration Type, page 9*.

Track eyes: Select how the device should track the user's eyes between: **Both**, **Left** or **Right**.

4.1.1.1 Create New Profile

1. Select the **Calibration type** to use.
For more information, see *4.1.1.5 Calibration Type, page 9*.
2. Select the **Create new profile** button.
3. Select **Yes** to continue or **No** to cancel.
4. Give the new profile a name.





Keyboard and mouse must be used.
Only Alpha-Numeric characters can be used.

5. Select the **Next** button.
6. Position the user so that the two dots, representing the user's eyes, are in the center of the box shown on screen.
The calibration process will start when the right dot blinks at the user.
7. Follow the on-screen instructions for performing a calibration.
8. Test the calibration.
For more information, see *4.1.1.3 Test Calibration, page 9*.
9. Select **Close** to accept the calibration or **Recalibrate** to perform a new calibration process.

4.1.1.2 Manage Profiles

On the Manage Profiles page you will be able to Activate or Delete an existing profile.

In the middle of the screen, under Active Profile, you will be able to see the name of the profile that is active.

All available profiles will be listed as button on the page, use the  and  button to scroll through the available profiles.

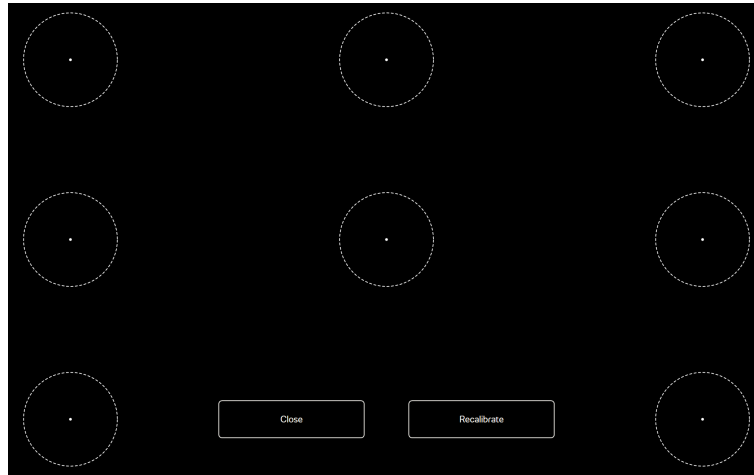
4.1.1.2.1 Activating a Profile

1. Select the button with the name of the profile to activate.
2. Select the **Activate** button located in the top right corner of the screen.
3. Select **Yes** to activate the selected profile or **No** to cancel.
4. Select **Close** to leave the page.

4.1.1.2.2 Deleting a Profile

1. Select the button with the name of the profile to delete.
2. Select the **Delete** button located in the top left corner of the screen.
3. Select **Yes** to delete the selected profile or **No** to cancel.
4. Select **Close** to leave the page.

4.1.1.3 Test Calibration



On the test calibration page the calibration can be tested, using predefined targets on the screen, to see if the user need to re-calibrate the eye tracker.

1. Look at each dot in each circle on the screen to see how accurate the eye tracking is in that area.
2. Select **Close** to accept the calibration or **Recalibrate** to perform a new calibration process.

4.1.1.4 Recalibration

1. Select the **Calibration type** to use.
For more information, see *4.1.1.5 Calibration Type, page 9*.
2. Select the **Recalibrate** button to start a new calibration process for the active profile.
3. Follow the on-screen instructions for performing a calibration.
4. Test the calibration. For more information, see *4.1.1.3 Test Calibration, page 9*.
5. Select **Close** to accept the calibration or **Recalibrate** to perform a new calibration process.

4.1.1.5 Calibration Type

There are two (2) calibration types available: **Accurate** and **Simple**.

4.1.1.5.1 Accurate

Select the **Accurate** box to activate the most accurate calibration type.

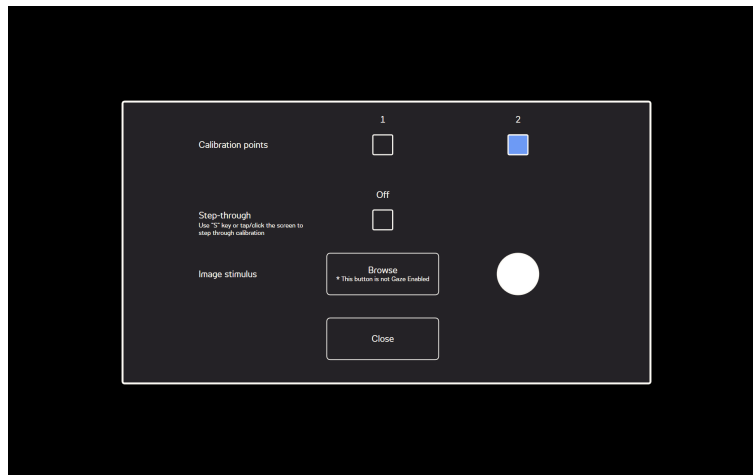
With the Accurate calibration type activated the calibration process will be a seven (7) points, “pop the dots” calibration. The Accurate calibration type is the default calibration type.

4.1.1.5.2 Simple

Select the **Simple** box to activate the easy calibration type, when it is of higher importance that the calibration is quick and easy, rather than highly accurate.

When the simple calibration type is selected, the calibration process can be customized.

Select the **Customize** button to customize the calibration process.



Calibration points: Select if **1** or **2** calibration points should be used.



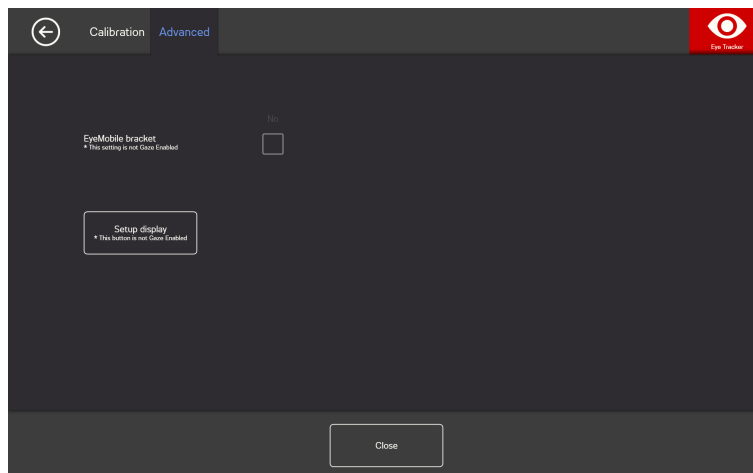
1-point calibration is not available on PCEye Go.

Step-through: Toggle the Step-through On/Off check box to On to activate the function where you use the “S” key on a keyboard or tap/click the screen to step through the calibration.

Image Stimulus: Select the **Browse** button to change the **Image Stimulus** from the default white dot into one of the included stimulus or to an image of the user's favorite toy or something else.

Close: Select the **Close** button to leave the page.

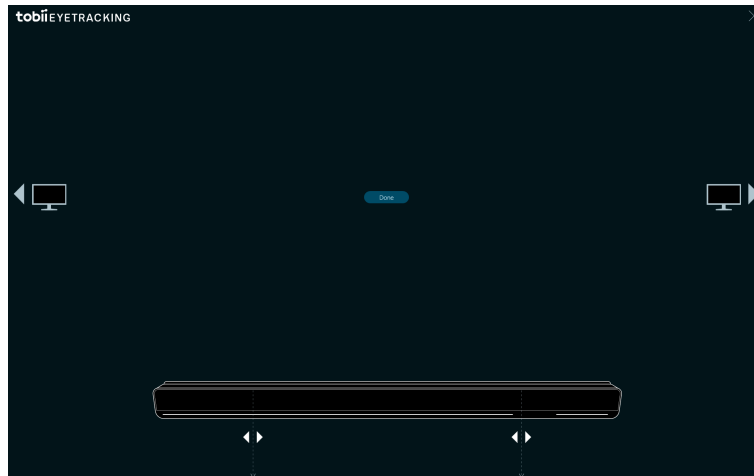
4.1.2 The Advanced Tab





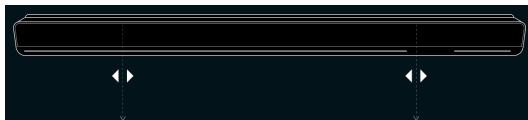
EyeMobile bracket: Toggle the EyeMobile bracket On/Off check box to **On** if you are using an EyeMobile or EyeMobile Mini. The EyeMobile bracket setting is not relevant for EyeMobile Plus and hence disabled.

4.1.2.1 Setup Display

If more than one (1) display is used, you will need to specify which display the eye tracker is attached to. The system will also need to know the size of the display that is used.



1. Use the  or  to select which display the eye tracker is attached to.
2. Align the left and right vertical line, which are under the visualization of the eye tracker on the screen, with the markings that are on top of the eye tracker in use.



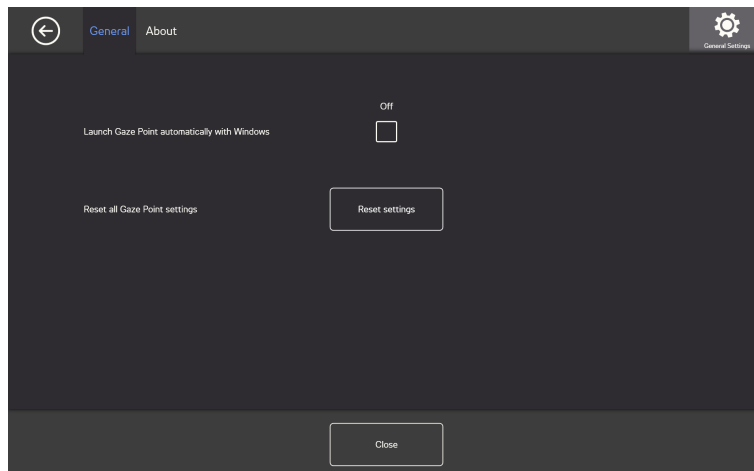
This will set the screen size that is used for the Tobii Dynavox Gaze Point.

3. Select **Done** to finalize.

4.2 General Settings



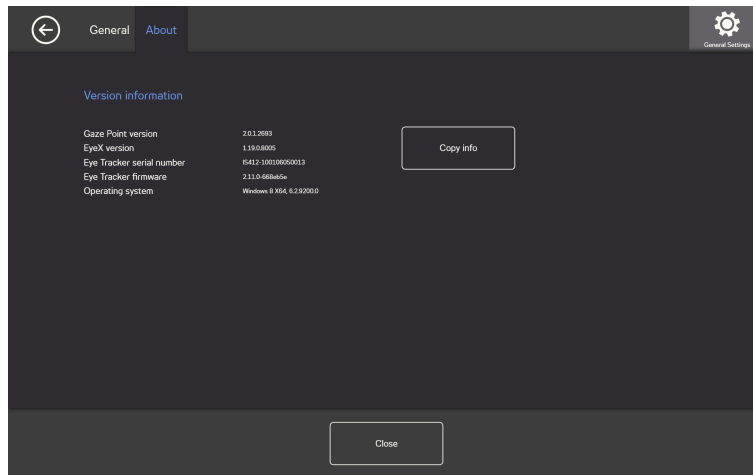
4.2.1 The General Tab



Launch Gaze point automatically with Windows: Toggle the On/Off check box to **On** if Gaze Point shall automatically start when Windows starts.

Reset all Gaze Point settings: Select the **Reset settings** button to reset all the Gaze Point settings.

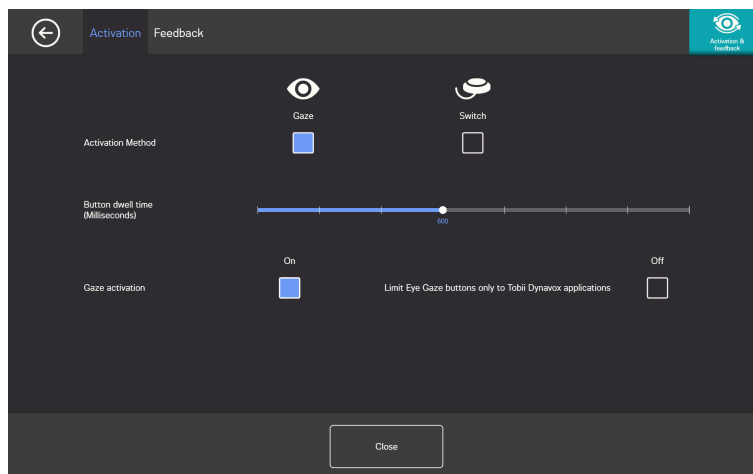
4.2.2 The About Tab



On the About page, all Version information for the software and Eye tracker hardware will be found. This information can easily be copied by selecting the **Copy info** button and then it can be pasted into an e-mail or any other software if needed.

4.3 Activation & Feedback

4.3.1 The Activation Tab



In the Activation Tab, all the settings for how the user shall interact with Gaze Point is set. If the user shall use the Gaze or a Switch to execute the commands and how the interaction shall behave.

Activation method:

- **Gaze** - Choose Gaze to use your gaze position to activate the zooming function that ends with the execution of the desired Task.
- **Switch** - Choose Switch to use a switch to activate the zooming function that ends with the execution of the desired Task.

Button Dwell Time (Milliseconds)

The Button Dwell Time can be set to 8 different levels, just look at the desired position to change the setting. Changing the Button Dwell Time will adjust how long the user must fix their gaze on a button before the Task is executed. The scale presents lower Button Dwell Time to the left and higher to the right.

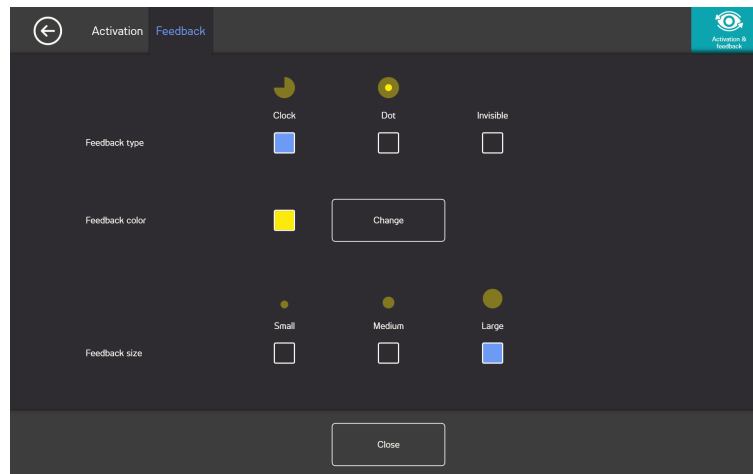
Look away before reselecting

- **On** - Choose On to activate **Look away before reselecting**. When On, the user must first look away from the active gaze region to be able to activate the same gaze region again.
- **Off** - Choose Off to deactivate **Look away before reselecting**. When Off, the active gaze region will be activated again and again as long as the user keeps gazing at the gaze region. (Default)

Limit Eye Gaze buttons only to Tobii Dynavox applications

- **On** - Choose On to activate **Limit Eye Gaze buttons only to Tobii Dynavox applications**. When On, the active gaze region will be activated, the command attached to the region will be executed, and the Tobii Dynavox feedback interaction will be shown **only** in Tobii Dynavox software and applications.
- **Off** - Choose Off to deactivate **Limit Eye Gaze buttons only to Tobii Dynavox applications**. When Off, the active gaze region will be activated, the command attached to the region will be executed, and the Tobii Dynavox feedback interaction will be shown in Tobii Dynavox and all third party software and applications. (Default)

4.3.2 The Feedback Tab



Feedback type:

- **Clock** - The visual feedback is a clock that fills during the specified Button Dwell Time. When the clock is completely filled, the Task is executed.
- **Dot** - The visual feedback is a shrinking dot for Gaze users or a static dot for Switch users when a Task is executed.
- **Invisible** - No visual feedback will be shown on the screen when a Task is executed.

Feedback color: Select the **Change** button to select the color of the feedback. For available colors, see *Figure 4.1 Available Colors*, page 14.

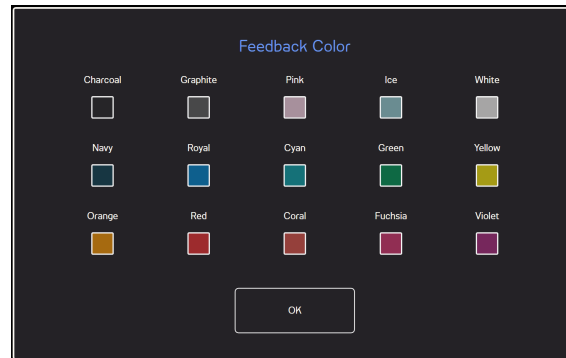


Figure 4.1 Available Colors

Feedback size: The feedback size of the chosen feedback type can be set to three (3) different values.

- **Small**
- **Medium**
- **Large**

4.4 Help and Usage

4.4.1 The Help Tab

Select the **Go to online help** button to open the Tobii Dynavox product support pages on internet in the default web browser, On the support web pages the user can find FAQs, support, training, videos and documentation about Gaze Point and all other products from Tobii Dynavox.

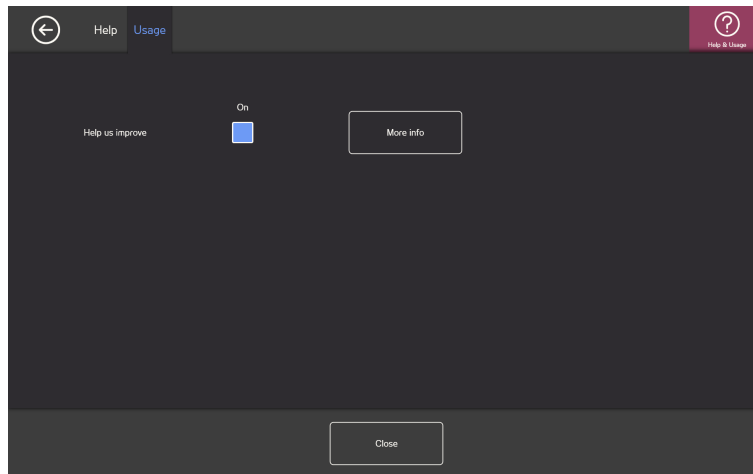


Make sure the computer/device is connected to Internet.

Select the **Start tutorial** button to run the included tutorial if the user needs to practice more. The tutorial can be started as many times as the user wants.

Select the **Save information** to file button to copy all the logs that are of importance if you are in need of support. This file can easily be attached to an e-mail and sent to the support team.

4.4.2 The Usage Tab



Help us improve: To help Tobii Dynavox improve the software toggle the On/Off check box to **On**. Select the More info button to open a page with information about what this is all about. For more information, see *Figure 4.2 Data Collection*, page 15.

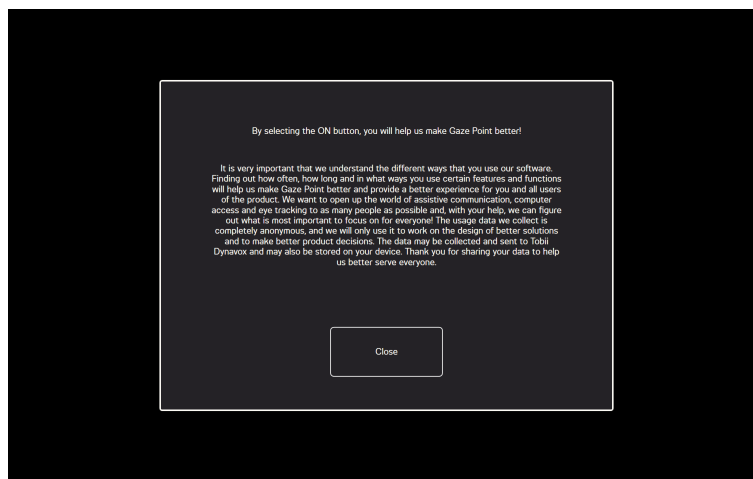


Figure 4.2 Data Collection

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Support for Your Tobii Dynavox Device

Get Help Online

See the product-specific Support page for your Tobii Dynavox device. It contains up-to-date information about issues and tips & tricks related to the product. Find our Support pages online at: www.TobiiDynavox.com or www.myTobiiDynavox.com.

Contact Your Sales Representative or Reseller

For questions or problems with your product, contact your Tobii Dynavox sales representative or authorized reseller for assistance. They are most familiar with your personal setup and can best help you with tips and product training. For contact details, visit www.TobiiDynavox.com/contact