

NuEye Quick Reference Guide

Applies to Software Version 2.04
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 NuEye Learning Series on YouTube

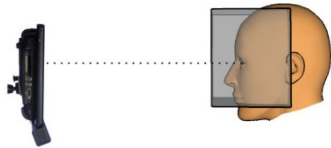
STEP 1 – STARTING NuEye

1. Select **Tools**, then **Toolbox**.
2. Select **Access Method Menu**.
3. Select **Choose Different Access Method**.
4. Select **Eyegaze**.

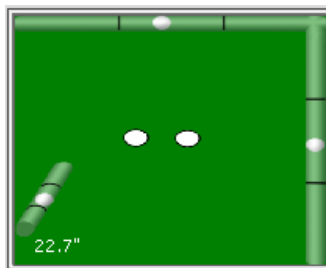
Touching the eye track status box (see below) with your finger will cause the system to pause or resume. The box will turn **RED** when paused and **GREEN** when active. Pause NuEye during positioning.

STEP 2 – POSITIONING

Adjust angle of device until front of face and display are parallel and 20 to 24 inches apart.



EYE TRACK STATUS BOX



White circles (pupils) should be centered in box. Try to align the white balls between the hash marks on all sides (left/right, up/down, and forward/back).

Eye track status box can be made **small** or **large**. When small, it will appear in the upper right hand corner of screen. It can also be turned **off** or **on**.

BEFORE calibrating the system achieve good positioning.

STEP 3- CALIBRATING

1. Select **Calibrate Now**.
2. A solid colored screen will appear and the user will be shown a sequence of points.
3. Focus on the center of each point as it appears until the next point appears.

When the calibration is complete, the system will return to the Eyegaze Access Method menu and be ready for use.

STEP 4 – MAKING SELECTIONS

From the Access Method Menu, select **Customize Eyegaze Settings**.

Selection Type

Auto [DEFAULT]: Key selections occur automatically according to the chosen dwell time. Dwell Time is adjusted with arrows.

Blink: The user blinks his or her eyes to make selections. The minimum and maximum durations of the Blink are adjusted with arrows.

Switch: The user moves the cursor with his or her eyes and makes selections by activating a switch. Acceptance Time is adjusted with arrows.

ACCESS METHOD MENU

PAUSE/RESUME

Press key to (toggle) pause and/or resume the NuEye Tracking System from within the Access Method Menu.

Tip: Insert **Disable Pointer** tool on a communication page key for user controlled pause function. See device manual for instructions on inserting tools. Make eye track status box small, so a communication partner can pause NuEye from communication pages.

MANAGE EYEGAZE PROFILES

Use preset eyegaze profiles for various levels of eyegaze users from novice to expert. Existing profiles can be customized, and new profiles added or deleted.

Load Eyegaze Profile

Choose this to select and load a preset profile.

Save Current Settings and Calibration to a Profile

Choose this to save current eye gaze settings and calibration data as a profile.

Delete Eyegaze Profile

Choose this to delete a previously saved profile.

CUSTOMIZE EYEGAZE SETTINGS

Off-screen Keys Settings

Off-Screen Pause Key: When ON, the user may Pause/Resume NuEye Tracking system by gazing just above the top edge (middle) of the screen.

Off-Screen Pause Key Size: Sets the size of the off-screen Pause key.

Off-Screen Tools Key: When ON, the user may access the Tools key by gazing just beyond the left edge of the screen.

Off-Screen Tools Key Size: Sets the size of the off-screen Tools key.

Off-Screen Pause Key Color: Allows you to create a custom color for the off-screen Tools key.

Right Off-Screen Keys: When ON, the user may access the off-screen keys by gazing just beyond the right edge of the screen.

Right Off-Screen Key Size: Sets the size of the right off-screen key.

Right Off-Screen Key Color: Allows you to create a custom color for the right off-screen key.

Bottom Off-Screen Keys: When ON, the user may access the off-screen keys by gazing just beyond the bottom edge of the screen.

Bottom Off-Screen Key Size: Sets the size of the bottom off-screen key.

Bottom Off-Screen Key Color: Allows you to create a custom color for the bottom off-screen key.

Predictive Selection

[Default = OFF] When turned ON, blank keys are inactive and no visual feedback is provided when gazing on blank keys.

Auto Repeat

[Default = OFF] A user can select same key multiple times by maintaining focus on key for the selected period of time. Adjust with the arrows.

Tip: If Auto Repeat is OFF, the user may repeat a key selection by looking away and then looking back at the key again.

Activate Text Area

When ON, the user may speak all the text in the text area (speak display).

Copy Current Settings to All User Areas

Choose this to copy the current eye gaze settings to all user areas (including calibration) within the device.

CALIBRATION SETTINGS

Stimulus Type: [Default = Point 2] *Stimulus used during calibration:* Use arrows to choose stimulus type: **Point, Point 2, Cross, Image.**

To use image, set type to image, and select **Change Image.** In message box select YES to use an icon from the vocabulary software or NO to use image stored on the computer or removable media.

Stimulus Size: Use arrows to change stimulus size.

Active Eye: Use arrows to select both, both use left/right or left/right only during calibration and operation of the NuEye tracking system.

Stimulus Speed: Use arrows to choose between Very Slow, Slow, Medium, Fast, and Very Fast.

Stimulus Sound: Choose Yes for stimulus sound feedback during calibration.

Keyboard Step Through: Choose **Yes** to allow the partner to step user through calibration by pressing the Spacebar key on a keyboard when the user is gazing at the stimulus.

Calibration Points: (The number of stimulus points seen during calibration.) Use arrows to choose 0, 1, 2, 5, and 9. The higher the number of calibration points the greater the precision of the tracking system.

Calibration Area: (Percent of screen used during calibration.) Use arrows to adjust.

Validate After Calibration: Data is provided immediately following the calibration when Validate After Calibration is set to YES and either TEXT or GRAPHIC. Validation data is expressed in numbers. The smaller the number the better the calibration.

WINDOWS ACCESS SETTINGS

Windows Clicks

ON allows for mouse clicks in Windows using NuEye. OFF disables mouse click activations while maintaining cursor control. Use with 'mouse over' or 'hover' activities in third party computer programs.

Magnify Windows Clicks

ON provides on-screen magnification pane in Windows with each eye gaze activation. Magnification is helpful when accessing small targets.

Magnification Factor: ranges from 2 to 5 times magnification. Use arrows to adjust magnification power.

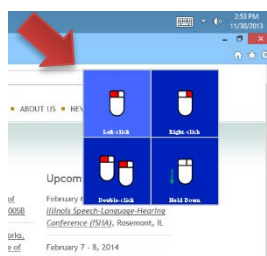
Magnification Area: ranges from 64 x 64 to 256 x 256. Use arrows to adjust magnification pane size.

Windows Selection Type

You can set the type of selection method you want for Windows separate from NuVoice communication software. For example, you can use Dwell while using NuVoice and Blink while working in Windows.

Windows Dwell Time

When Windows Selection Type is set to Auto, use arrows to adjust Windows dwell time or choose Same. Set the dwell time in Windows to a different dwell time than that of NuVoice or the same.



Mouse Post-Select

Choose ON to show a pop-up menu within Windows each time the mouse is clicked. User can select the action for the click (e.g. left click, right click, double click, click & hold down).

Mouse Post-select Settings:

Configuration: Use arrows to choose box, horizontal or vertical configuration.

Button and Font Size: Use arrows to adjust grid square size and function label font size.

Customize Button Functions 1-4: Choose post-select button desired. Use arrows to select desired function type. Additional customizations include button icon, button text, text color, button color, hover text color and hover button color.

POINTER SETTINGS

Pointer: [Default] The pointer is the on screen indicator that shows where eyes are gazing. Pointer settings allow change in pointer color, pointer type, pointer size, pointer mode (animated or static), pointer border, and pointer transparency.

Highlight Keys: When ON, each button is highlighted according to the Highlight Settings when gazed at.

Highlight Settings: Configure a colored outline or colored fill for key highlighting.

Show Cursor: When ON, a real-time cursor appears on screen that is controlled with the eyes.

Cursor Size: Use arrows to choose small, medium or large cursor.

Cursor Color: Change color of cursor.

TRACKING SETTINGS

Smoothing: If pointer movements are very jumpy, adjust Smoothing to refine pointer movement. As you increase the Smoothing value, pointer movement will be smoother, but slower. If pointer movement becomes too slow, lower the value until you reach the best balance of smoothness and speed.

Fixation Window: Increase the size of the fixation window to make target selection easier for users with ocular motor or visual attention issues that may be impacting their ability to select targets. Decrease the size of the fixation window to improve the precision of the selection made for more advanced users.

VISUAL FEEDBACK

Provides an inverted flash when a key is selected.

1. Select **Tools**, then **Toolbox**.
2. Choose **Feedback Menu**.
3. Choose **Skin Options**.
4. Turn **Key Visual Feedback ON/OFF**.

KEY PADDING

Provides additional space around each key.

1. Select **Tools**, then **Toolbox**.
2. Choose **Feedback Menu**.
3. Choose **Skin Options**.
4. Set **Key Padding (1-20)**. The larger the number the more space around each key.