

FOCUS 40 Blue – Keystroke Commands

Introduction

The Focus 40 is a refreshable Braille display that allows users to use the built-in Perkins style keyboard and additional keys to fully access computer functions when paired with JAWS.

This set of keystroke commands assumes

- That you have a copy of JAWS installed on your computer
- That the FOCUS 40 is connected to the computer via Bluetooth or USB

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Modifier Keys

Modifier keys are used to simulate key combinations that include CTRL, ALT, WINDOWS key, SHIFT and INSERT (JAWS key). They start with a DOT 8 CHORD plus one of the following dots to create specific modifier keys.

Dot 2 - INSERT

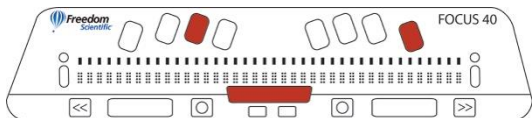
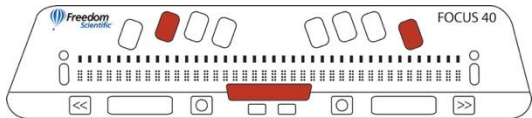
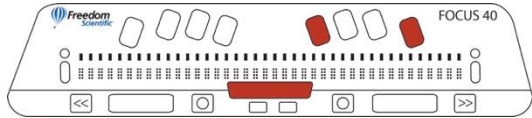
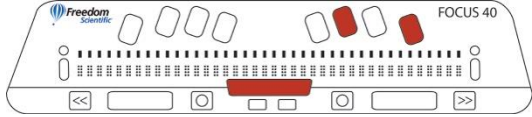
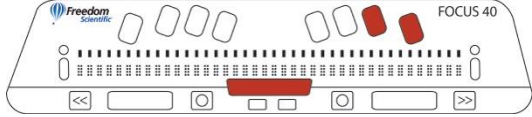
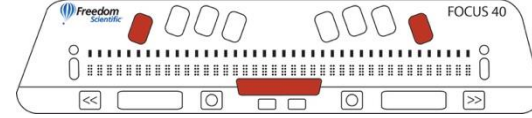
Dot 3 - CTRL

Dot 4 - WINDOWS key

Dot 5 - JAWS key

Dot 6 - ALT

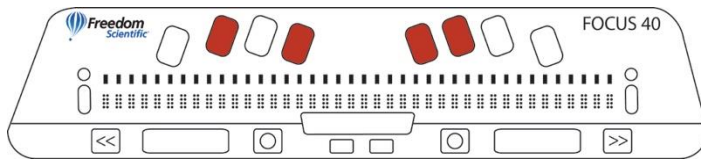
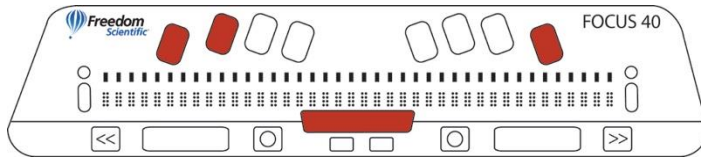
Dot 7 - SHIFT

	<p>INSERT DOT 2-8 CHORD</p>	
	<p>CTRL DOT 3-8 CHORD</p>	
	<p>WINDOWS key DOT 4-8 CHORD</p>	
	<p>JAWS key DOT 5-8 CHORD</p>	
	<p>ALT DOT 6-8 CHORD</p>	
	<p>SHIFT DOT 7-8 CHORD</p>	

SET▶BC

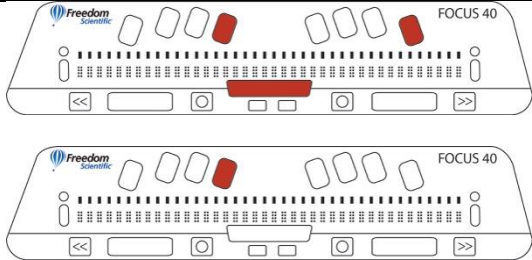
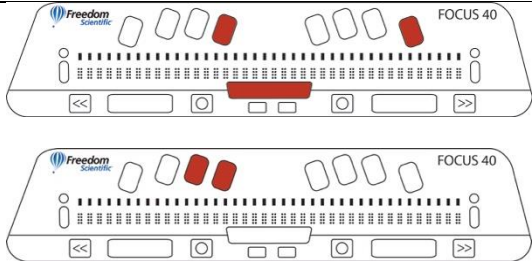
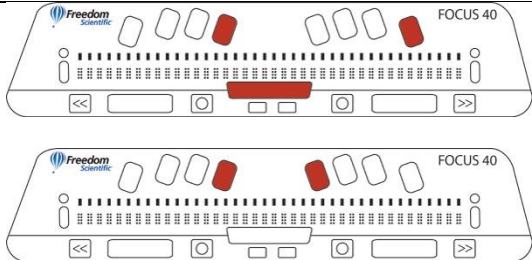
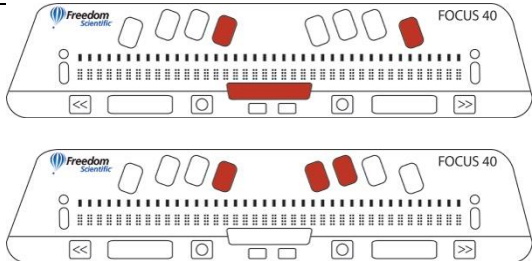
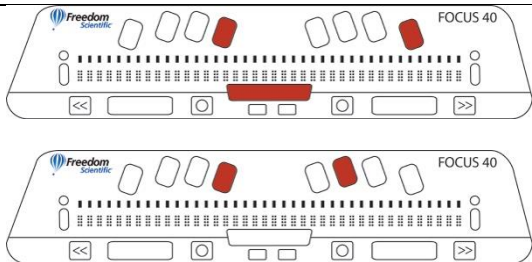
To create a complex keystroke combination that involves more than one modifier key such as CTRL+SHIFT+N, create the modifier key combination first, then release to enter the rest of the keystroke.

For CTRL+SHIFT+N press Dot 3-7-8 CHORD. Release the keys, then press N (Dot 1-3-4-5).

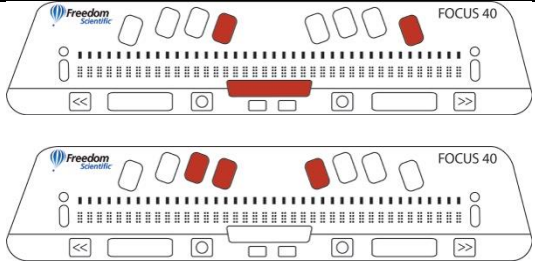
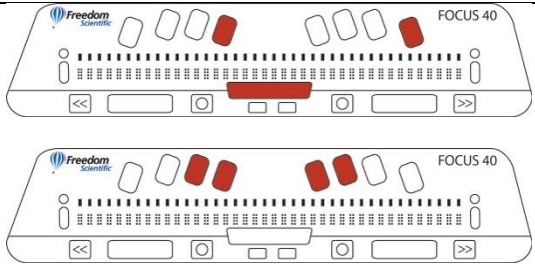
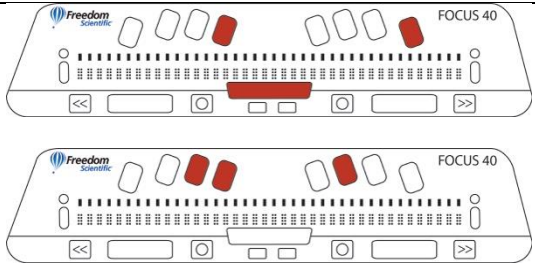
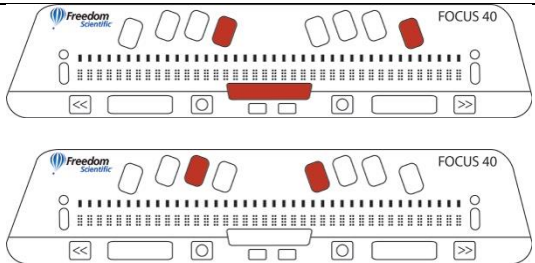
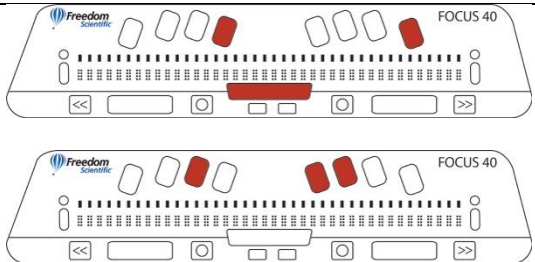


Function Keys

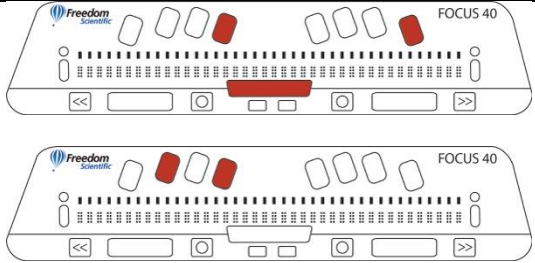
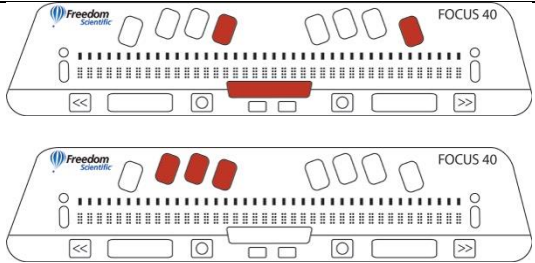
To produce a function key, hold down Dot 8 CHORD and then press the corresponding modifier key, Dot 1 for function keys. Release the Dot 1-8 CHORD. Then enter A through L which corresponds to 1 through 12.

	<p>F1 DOT 1-8 CHORD, A</p>	
	<p>F2 DOT 1-8 CHORD, B</p>	
	<p>F3 DOT 1-8 CHORD, C</p>	
	<p>F4 DOT 1-8 CHORD, D</p>	
	<p>F5 DOT 1-8 CHORD, E</p>	

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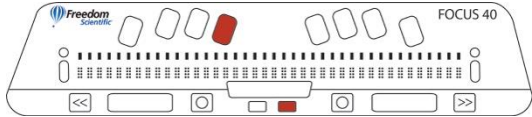
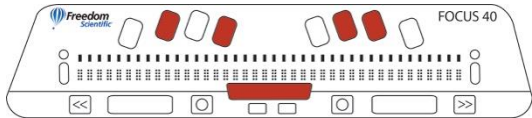
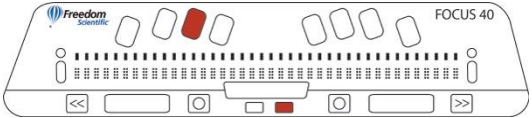
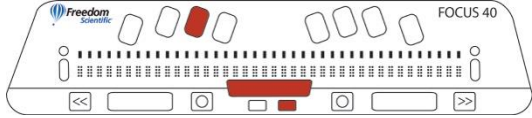
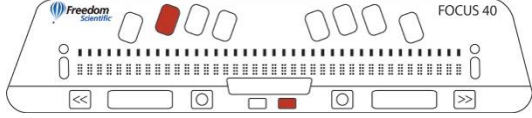
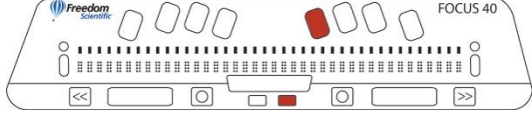
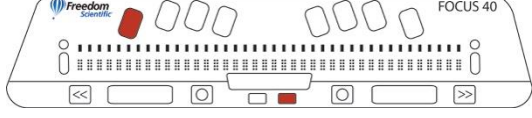
	<p>F6 DOT 1-8 CHORD, F</p>	
	<p>F7 DOT 1-8 CHORD, G</p>	
	<p>F8 DOT 1-8 CHORD, H</p>	
	<p>F9 DOT 1-8 CHORD, I</p>	
	<p>F10 DOT 1-8 CHORD, J</p>	

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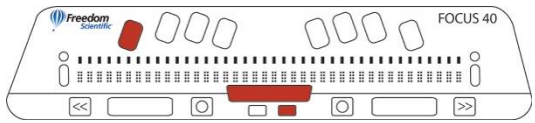
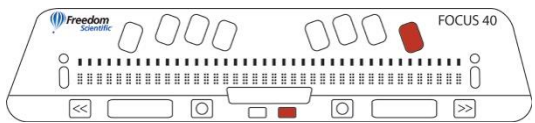
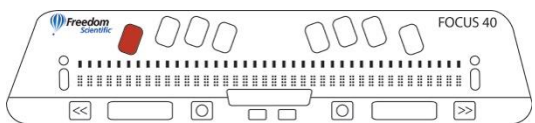
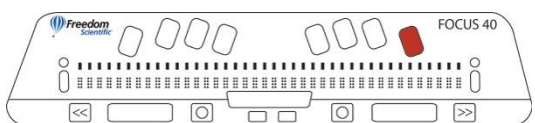
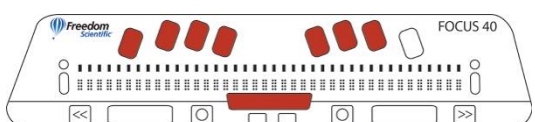
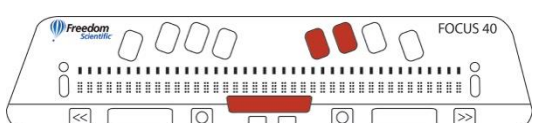
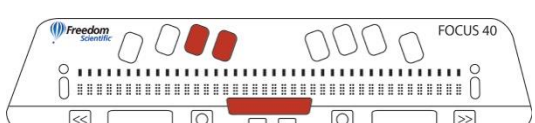
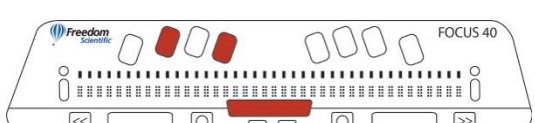
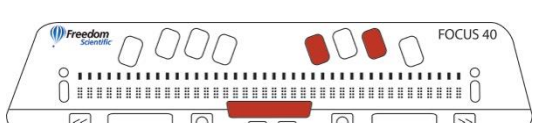
	<p>F11 DOT 1-8 CHORD, K</p>	
	<p>F12 DOT 1-8 CHORD, L</p>	

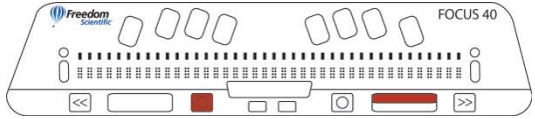
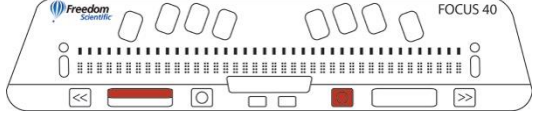
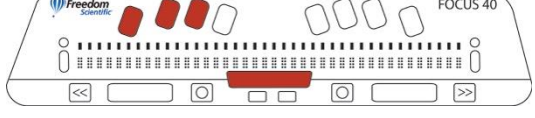
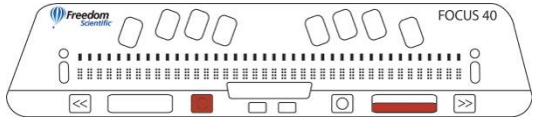
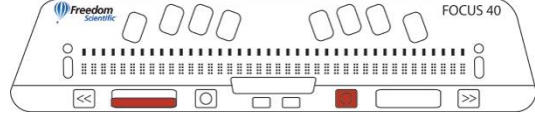
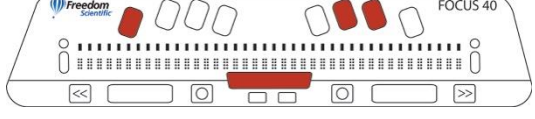
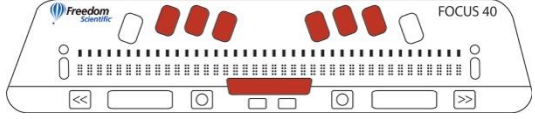
Special Keys

The following are keystrokes to simulate keys that are not available on the Focus Braille keyboard but that are needed in order to interact with the Windows environment. These keys can be combined with modifier keys. See pages 2-6 for more information on modifier keys.

	<p>ESC RIGHT SHIFT+DOT 1 or Z CHORD</p>	 <p>OR</p> 
	<p>ALT RIGHT SHIFT+DOT 2</p>	
	<p>APPLICATION Key RIGHT SHIFT+DOT 2 CHORD</p>	
	<p>NUM PAD ASTERISK RIGHT SHIFT+DOT 3</p>	
	<p>WINDOWS Key RIGHT SHIFT+DOT 4</p>	
	<p>NUM PAD SLASH RIGHT SHIFT+DOT 7</p>	

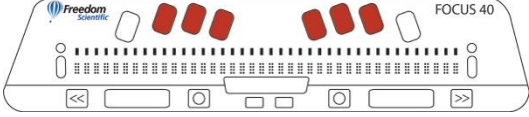
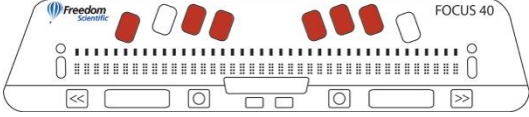
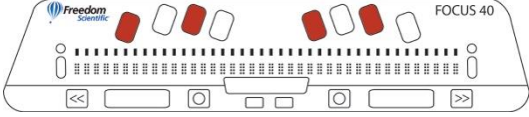
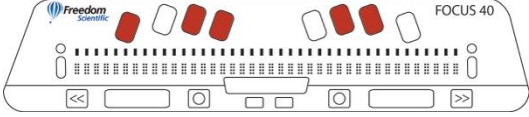
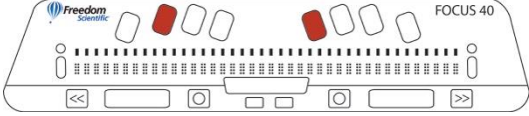
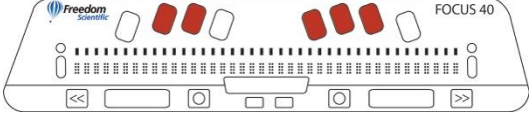
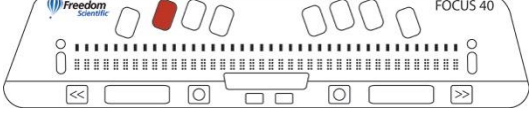
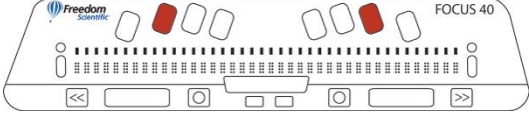
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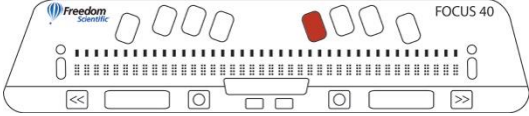
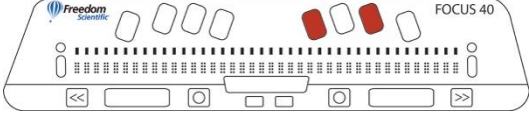
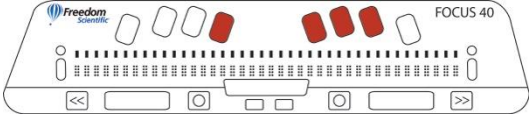
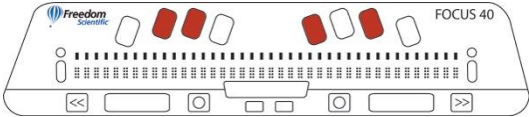
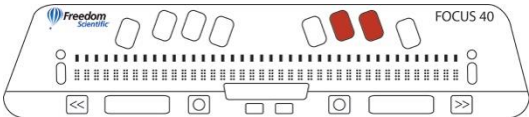
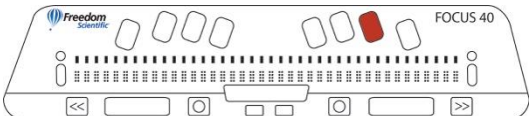
	<p>CAPS LOCK RIGHT SHIFT+DOT 7 CHORD</p>	
	<p>NUM PAD PLUS RIGHT SHIFT+DOT 8</p>	
	<p>BACKSPACE DOT 7</p>	
	<p>ENTER DOT 8</p>	
	<p>CTRL+BACKSPACE DOTS 1-2-3-4-5-6-7 CHORD</p>	
	<p>TAB DOTS 4-5 CHORD</p>	
	<p>SHIFT+TAB B CHORD</p>	
	<p>HOME K CHORD</p>	
	<p>END DOTS 4-6 CHORD</p>	

	<p>PAGE UP LEFT SHIFT+ROCKER BAR UP or RIGHT SHIFT+ROCKER BAR UP or DOTS 2-3-7 CHORD</p>	 <p>OR</p>  <p>OR</p> 
	<p>PAGE DOWN LEFT SHIFT+ROCKER BAR DOWN or RIGHT SHIFT+ROCKER BAR DOWN or DOTS 5-6-7 CHORD</p>	 <p>OR</p>  <p>OR</p> 
	<p>DELETE FOR CHORD</p>	

Special Keys - Punctuation

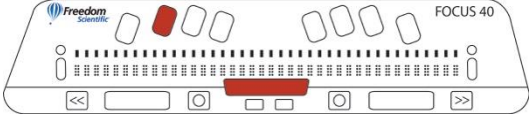
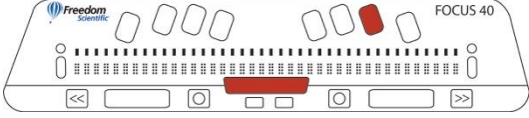
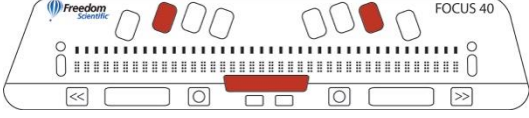
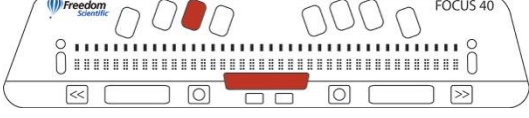
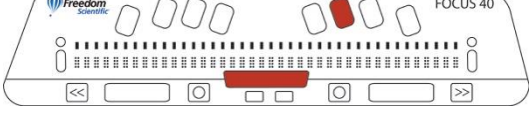
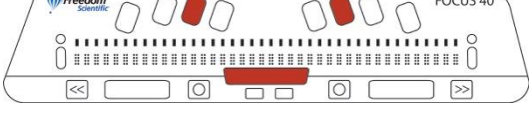
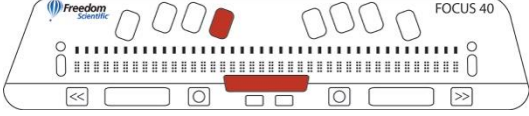
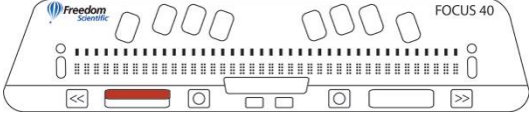
Punctuation and other symbols will be entered using their contracted braille equivalents if Contracted Braille Translation is set to Input and Output in the JAWS settings window.

<p>EQUALS DOTS 1-2-3-4-5-6</p>	
<p>RIGHT BRACKET DOTS 1-2-4-5-6-7</p>	
<p>LEFT BRACKET DOTS 2-4-6-7</p>	
<p>BACKSLASH DOTS 1-2-5-6-7</p>	
<p>SLASH DOTS 3-4</p>	
<p>RIGHT PARENTHESIS DOTS 2-3-4-5-6</p>	
<p>APOSTROPHE DOT 3</p>	
<p>DASH DOTS 3-6</p>	

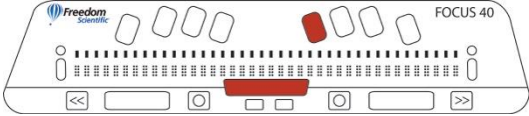
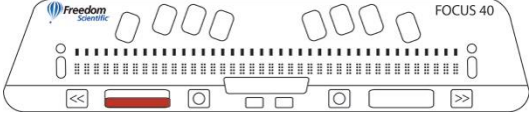
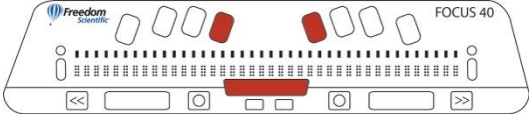
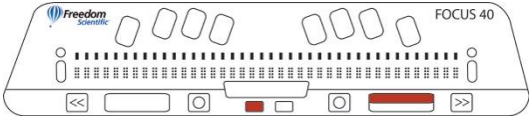
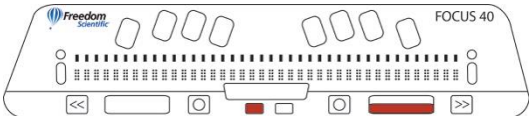
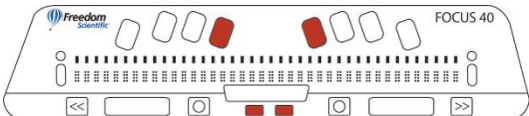
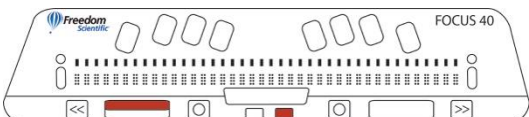
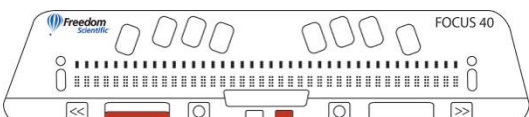
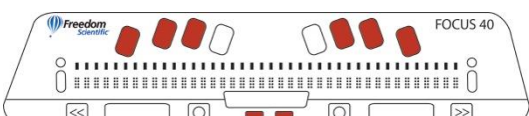
<p>GRÀVE DOT 4</p>	
<p>PERIOD DOTS 4-6</p>	
<p>QUESTION MARK DOTS 1-4-5-6</p>	
<p>EXCLAMATION MARK DOTS 2-3-4-6</p>	
<p>SEMICOLON DOTS 5-6</p>	
<p>COMMA DOT 6</p>	

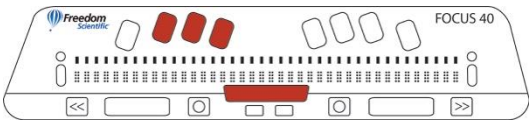
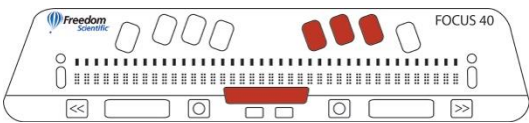
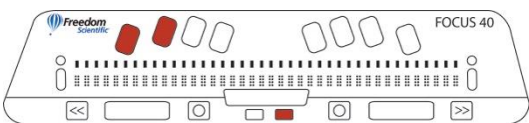
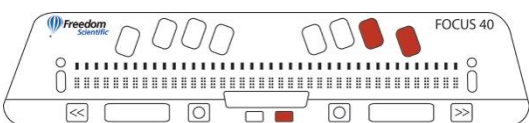
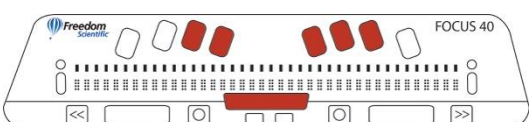
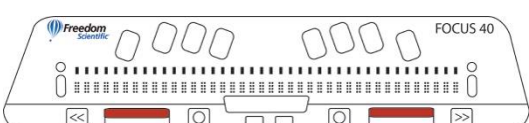
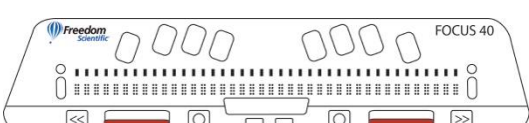
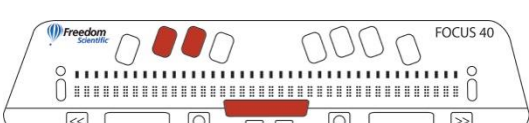
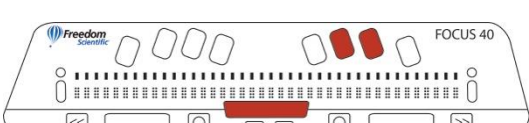
Navigation Commands

The following are JAWS navigation commands.

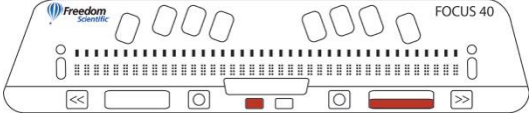
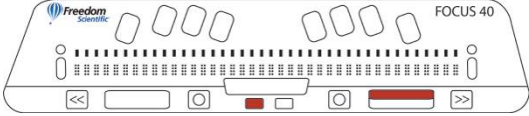
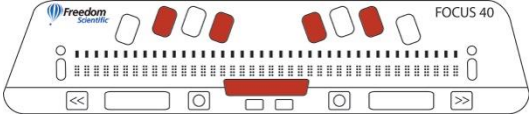
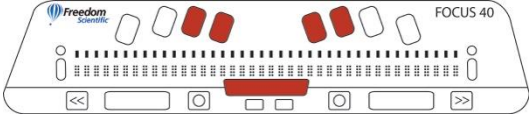
<p>Say Prior Character DOT 3 CHORD</p>	
<p>Say Next Character DOT 6 CHORD</p>	
<p>Say Character DOTS 3-6 CHORD</p>	
<p>Say Prior Word DOT 2 CHORD</p>	
<p>Say Next Word DOT 5 CHORD</p>	
<p>Say Word DOTS 2-5 CHORD</p>	
<p>Say Prior Line DOT 1 CHORD or LEFT ROCKER BAR UP</p>	 <p style="text-align: center;">OR</p> 

SETBC

<p>Say Next Line DOT 4 CHORD or LEFT ROCKER BAR DOWN</p>	 <p style="text-align: center;">OR</p> 
<p>Say Line C CHORD</p>	
<p>Say Prior Sentence LEFT SHIFT+RIGHT ROCKER BAR UP</p>	
<p>Say Next Sentence LEFT SHIFT+RIGHT ROCKER BAR DOWN</p>	
<p>Say Sentence LEFT SHIFT+RIGHT SHIFT+C</p>	
<p>Say Prior Paragraph RIGHT SHIFT+LEFT ROCKER BAR UP</p>	
<p>Say Next Paragraph RIGHT SHIFT+LEFT ROCKER BAR DOWN</p>	
<p>Say Paragraph LEFT SHIFT+RIGHT SHIFT+DOTS 2-3-5-6-7-8</p>	

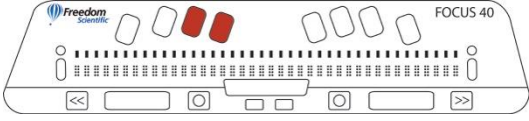
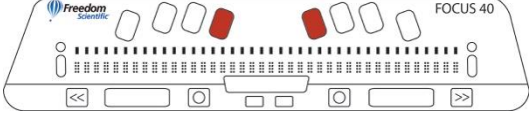
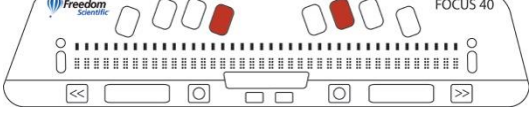
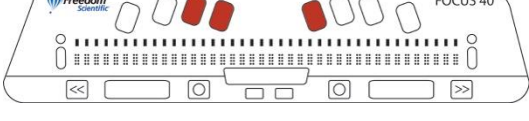
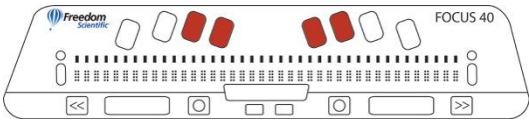
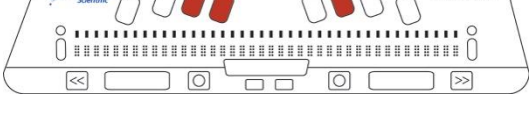
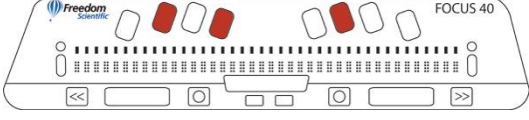
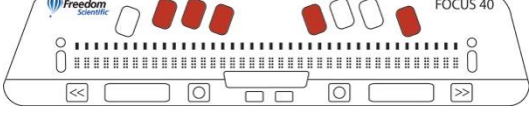
<p>Move to Top of File L CHORD</p>	
<p>Move to Bottom of File DOTS 4-5-6 CHORD</p>	
<p>Say to Cursor RIGHT SHIFT+DOTS 3-7</p>	
<p>Say from Cursor RIGHT SHIFT+DOTS 6-8</p>	
<p>Say All DOTS 1-2-4-5-6 CHORD</p>	
<p>Say Top of Line of Active Window LEFT ROCKER BAR UP+RIGHT ROCKER BAR UP</p>	
<p>Say Bottom of Line of Active Window LEFT ROCKER BAR DOWN+RIGHT ROCKER BAR DOWN</p>	
<p>Previous Document Window DOTS 2-3 CHORD</p>	
<p>Next Document Window DOTS 5-6 CHORD</p>	

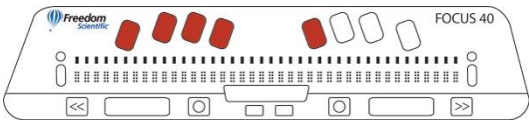
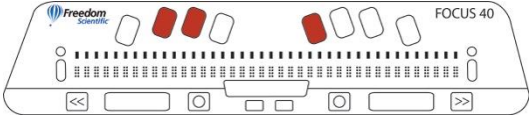
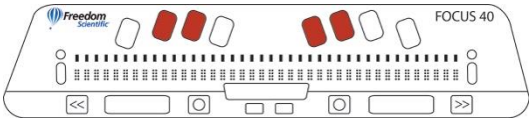
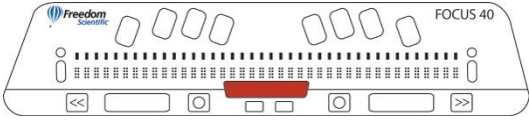
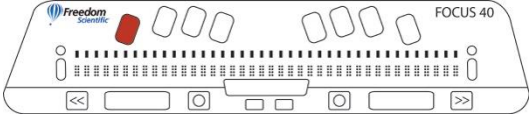
SET BC

<p>Open List Box LEFT SHIFT+RIGHT ROCKER BAR DOWN</p>	
<p>Close List Box LEFT SHIFT+RIGHT ROCKER BAR UP</p>	
<p>Exit Forms Mode X CHORD</p>	
<p>Say Window Prompt and Text G CHORD</p>	

Microsoft Word Navigation Quick Keys

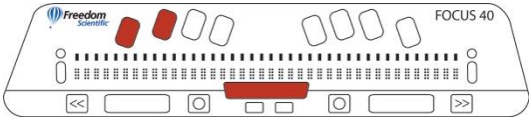
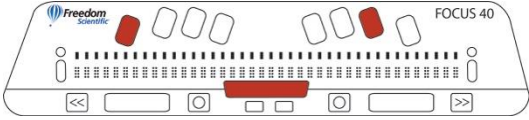
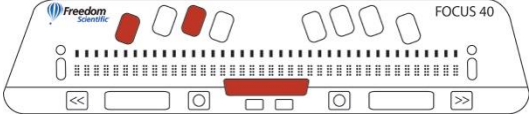
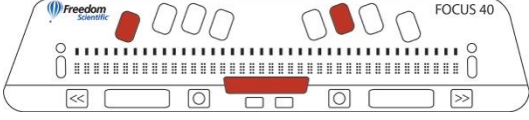
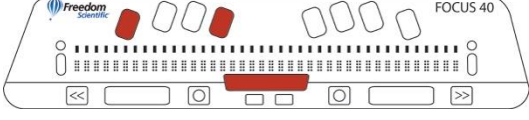
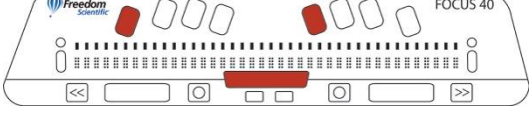
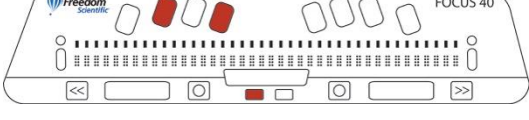
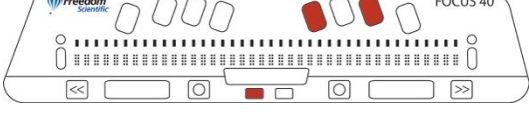
The following are JAWS navigation commands for Microsoft Word

<p>Next Bookmark B</p>	
<p>Next Comment C</p>	
<p>Next Endnote E</p>	
<p>Next Form Field F</p>	
<p>Next Graphic G</p>	
<p>Next Heading H</p>	
<p>Next Footnote O</p>	
<p>Next Paragraph P+DOT 8</p>	

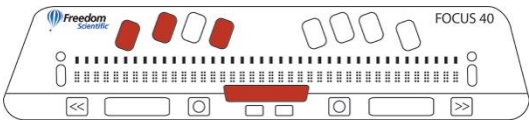
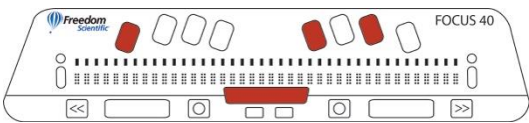
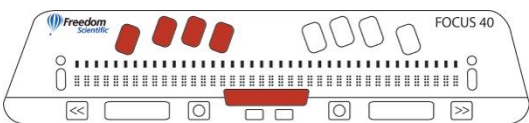
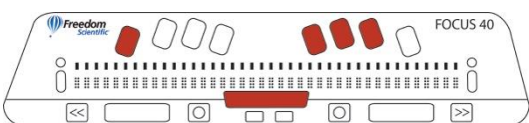
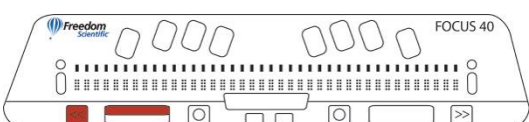
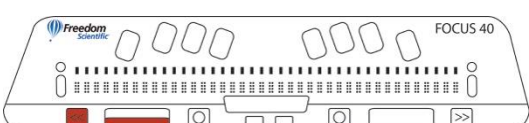
<p>Previous Paragraph P+DOT 7</p>	
<p>Next Section S</p>	
<p>Next Table T</p>	
<p>Next Page SPACEBAR</p>	
<p>Previous Page BACKSPACE</p>	

Text Selection Commands

Use these keystrokes to move the cursor or to select text.

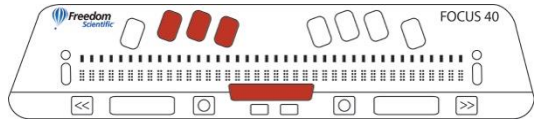
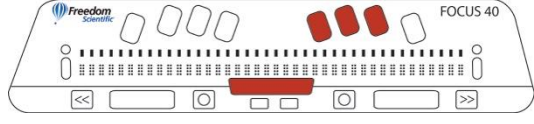
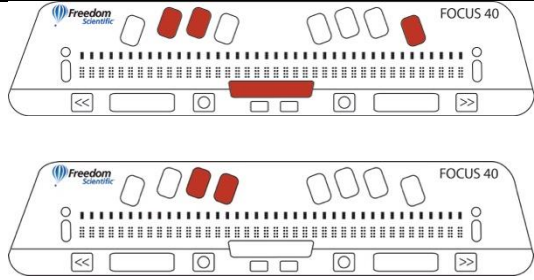
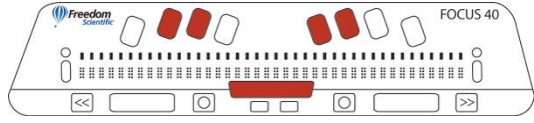
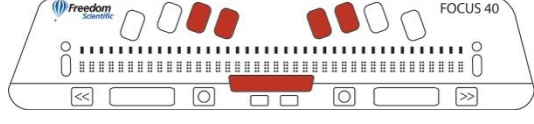
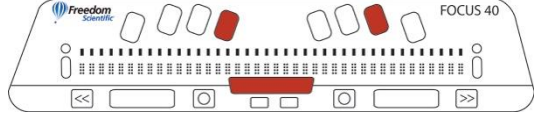
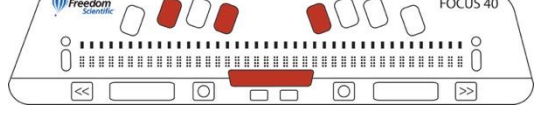
<p>Select Prior Character DOTS 3-7 CHORD</p>	
<p>Select Next Character DOTS 6-7 CHORD</p>	
<p>Select Prior Word DOTS 2-7 CHORD</p>	
<p>Select Next Word DOTS 5-7 CHORD</p>	
<p>Select Prior Line DOTS 1-7 CHORD</p>	
<p>Select Next Line DOTS 4-7 CHORD</p>	
<p>Select Prior Screen LEFT SHIFT+K</p>	
<p>Select Next Screen LEFT SHIFT+DOTS 4-6</p>	

SET▶BC

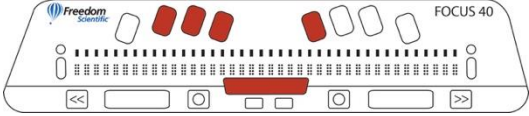
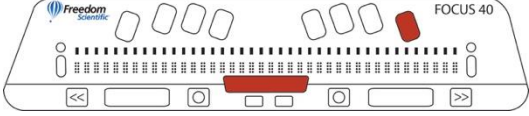
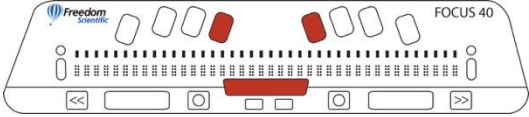
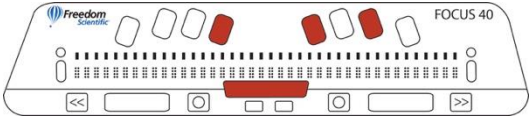
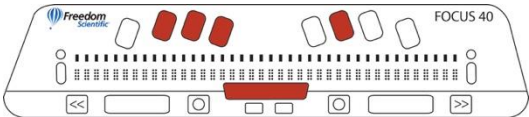
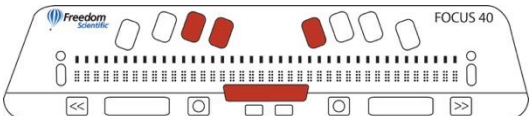
<p>Select from Start of Line K+DOT 7 CHORD</p>	
<p>Select to End of Line DOTS 4-6-7 CHORD</p>	
<p>Select from Top L+DOTS 7 CHORD</p>	
<p>Select to Bottom DOTS 4-5-6-7 CHORD</p>	
<p>Move To Beginning Of Line ROCKER BAR UP+PANNING BUTTON</p>	
<p>Move To End Of Line ROCKER BAR DOWN+PANNING BUTTON</p>	

Braille Commands

The following are commands to configure braille functions

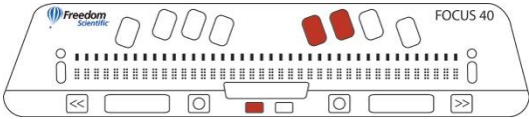
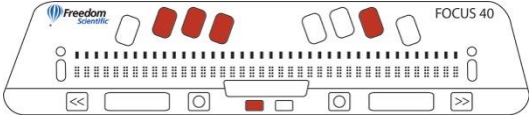
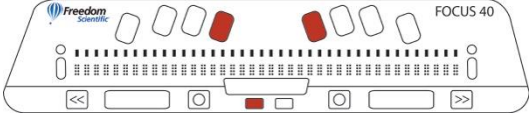
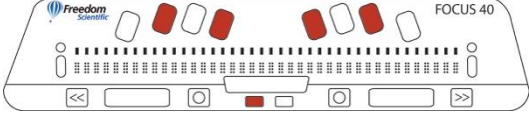
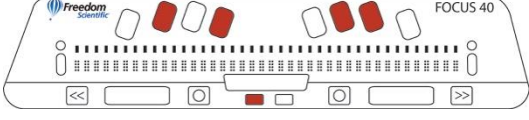
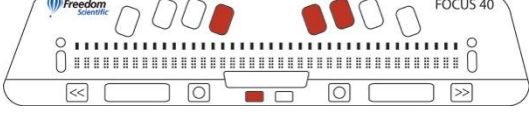
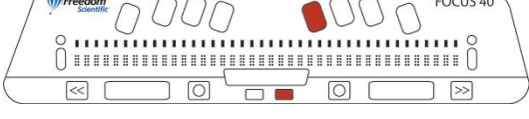
<p>Top of Document L CHORD</p>	
<p>Bottom of Document DOTS 4-5-6 CHORD</p>	
<p>Adjust Braille Verbosity DOTS 2-3-8 CHORD followed by DOTS 1-2</p>	
<p>Grade 2 Expand Current Word T CHORD</p>	
<p>Grade 2 Translation G CHORD</p>	
<p>Toggle Characters and Attributes CH Sign CHORD</p>	
<p>Toggle Marking M CHORD</p>	

SET BC

<p>Toggle 8 Pixels per Space P CHORD</p>	 <p>The diagram shows the Freedom Scientific FOCUS 40 Braille display with 8 pixels per space. The top row of the display is highlighted in red, indicating that the space character is represented by 8 dots.</p>
<p>Toggle 8/6 DOTS Braille 8 CHORD</p>	 <p>The diagram shows the Freedom Scientific FOCUS 40 Braille display with 8/6 dots Braille. The top row of the display is highlighted in red, indicating that the space character is represented by 6 dots.</p>
<p>Color Marking Assign C CHORD</p>	 <p>The diagram shows the Freedom Scientific FOCUS 40 Braille display with color marking assigned. The top row of the display is highlighted in red, indicating that the space character is represented by 8 dots.</p>
<p>Change Cursor Shape SH Sign CHORD</p>	 <p>The diagram shows the Freedom Scientific FOCUS 40 Braille display with the cursor shape changed. The top row of the display is highlighted in red, indicating that the space character is represented by 8 dots.</p>
<p>Restrict Braille Cursor R CHORD</p>	 <p>The diagram shows the Freedom Scientific FOCUS 40 Braille display with the Braille cursor restricted. The top row of the display is highlighted in red, indicating that the space character is represented by 8 dots.</p>
<p>Repeat Last Flash Message F CHORD</p>	 <p>The diagram shows the Freedom Scientific FOCUS 40 Braille display with the last flash message repeated. The top row of the display is highlighted in red, indicating that the space character is represented by 8 dots.</p>

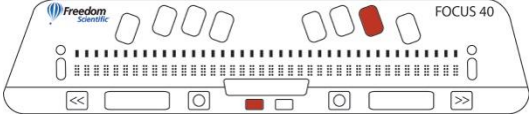
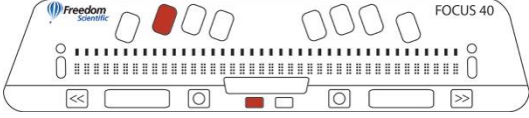
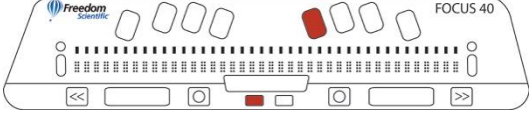
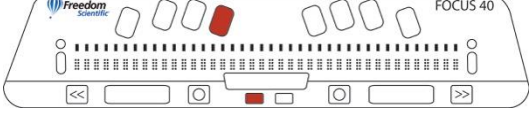
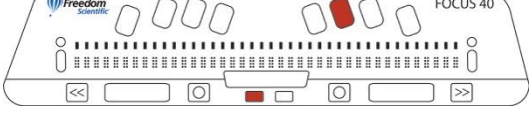
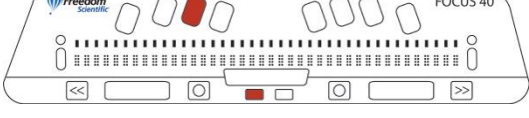
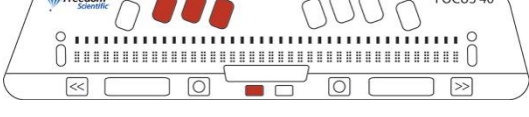
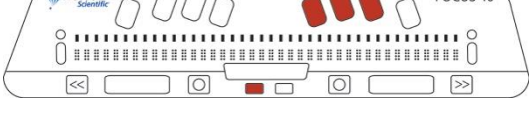
Windows Commands

The following are basic editing functions for Windows.

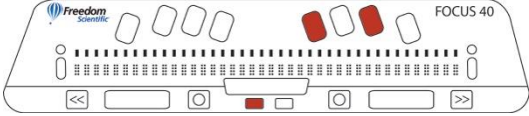
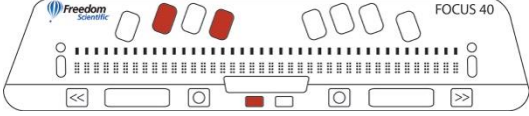
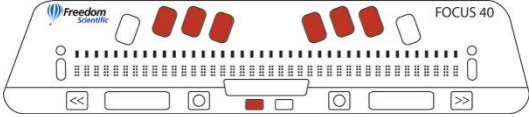
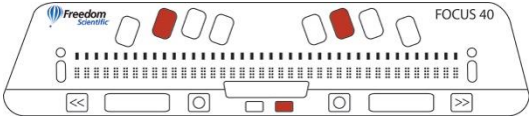
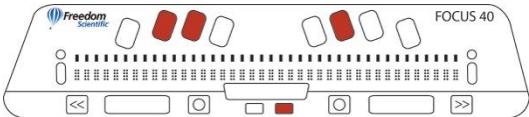
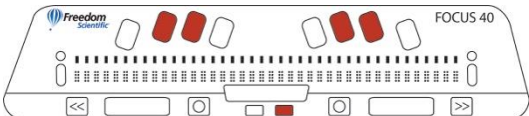
<p>ALT+TAB LEFT SHIFT+DOTS 4-5</p>	
<p>Paste from Clipboard LEFT SHIFT+V</p>	
<p>Copy to Clipboard LEFT SHIFT+C</p>	
<p>Cut to Clipboard LEFT SHIFT+X</p>	
<p>Undo LEFT SHIFT+Z</p>	
<p>Delete LEFT SHIFT+D</p>	
<p>Windows Start Button RIGHT SHIFT+DOT 4</p>	

Selection Commands

These keystrokes are used to select characters, lines, and other page elements.

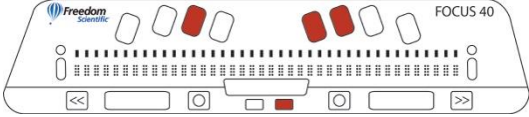
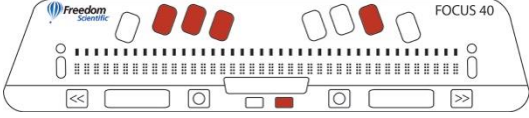
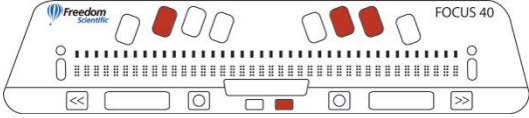
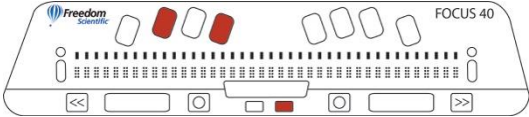
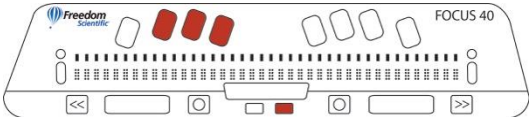
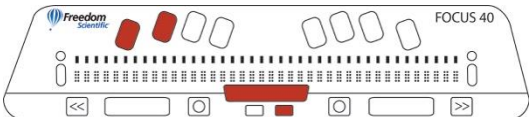
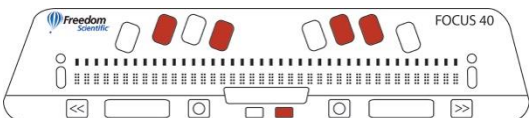
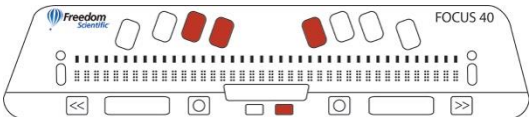
<p>Select Next Character LEFT SHIFT+DOT 6</p>	
<p>Select Prior Character LEFT SHIFT+DOT 3</p>	
<p>Select Next Line LEFT SHIFT+DOT 4</p>	
<p>Select Prior Line LEFT SHIFT+DOT 1</p>	
<p>Select to End of Line LEFT SHIFT+DOT 5</p>	
<p>Select from v of Line LEFT SHIFT+DOT 2</p>	
<p>Select from Top LEFT SHIFT+L</p>	
<p>Select to Bottom LEFT SHIFT+DOTS 4-5-6</p>	

SET▶BC

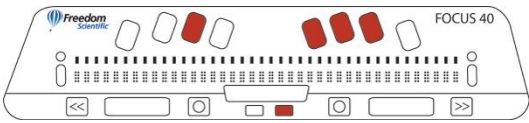
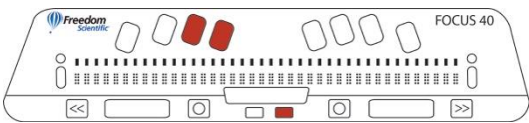
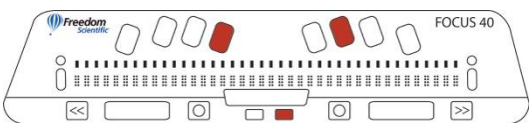
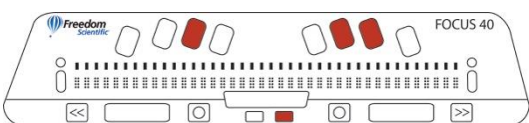
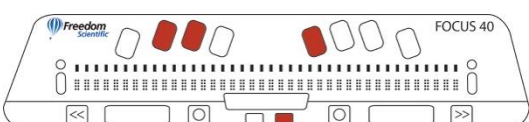
<p>Select Next Screen LEFT SHIFT+DOTS 4-6</p>	
<p>Select Prior Screen LEFT SHIFT+K</p>	
<p>Select All LEFT SHIFT+FOR Sign</p>	
<p>Select a Frame RIGHT SHIFT+9</p>	
<p>Select a Heading RIGHT SHIFT+6</p>	
<p>Select a Link RIGHT SHIFT+7</p>	

JAWS Commands

Use these keystrokes to perform JAWS functions.

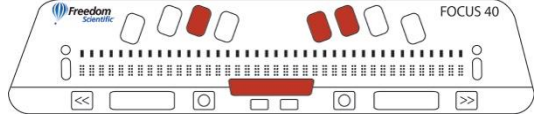
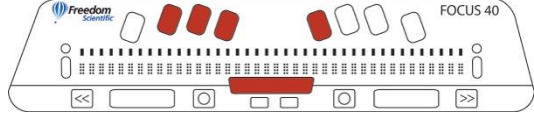
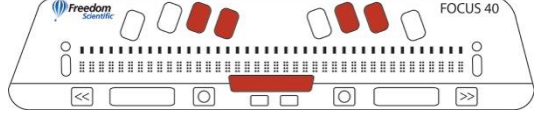
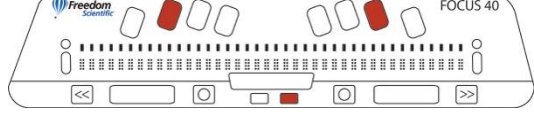
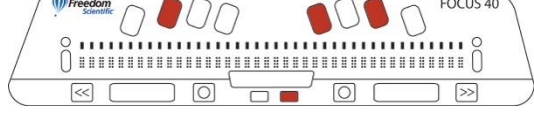
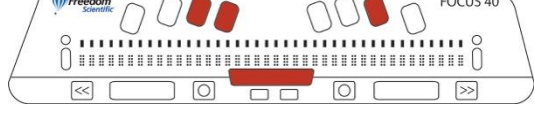
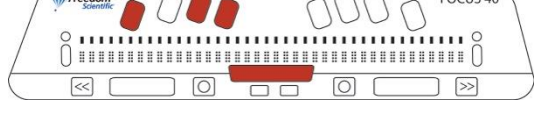
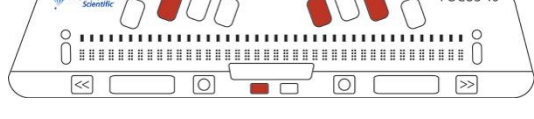
<p>JAWS Window RIGHT SHIFT+J</p>	
<p>Adjust JAWS Verbosity RIGHT SHIFT+V</p>	
<p>Open Task List RIGHT SHIFT+DOTS 3-5-6</p>	
<p>List System Tray Icons RIGHT SHIFT+K</p>	
<p>Say System Time RIGHT SHIFT DOTS 1-2-3</p>	
<p>Drag and Drop RIGHT SHIFT+DOTS 3-7 CHORD</p>	
<p>Refresh Screen RIGHT SHIFT+Z</p>	
<p>Say Font RIGHT SHIFT+F</p>	

SET BC

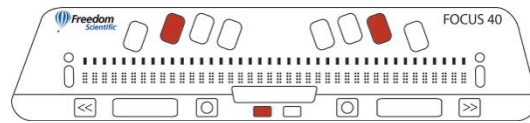
<p>Windows Keys Help RIGHT SHIFT+W</p>	
<p>Read Current Window RIGHT SHIFT+B</p>	
<p>Default Button in Dialog RIGHT SHIFT+E</p>	
<p>Shut DOWN JAWS RIGHT SHIFT+4</p>	
<p>Select a Synthesizer RIGHT SHIFT+S</p>	

Cursor Functions

Use these keystrokes to select a cursor for navigating JAWS.

<p>JAWS Cursor J CHORD</p>	
<p>PC Cursor P CHORD</p>	
<p>Touch Cursor (JAWS 15 and later) DOTS 1-2-5-6 CHORD</p>	
<p>Route JAWS to PC RIGHT SHIFT+DOTS 3-6 (MINUS Sign)</p>	
<p>Route PC to JAWS RIGHT SHIFT+ING Sign 3-4-6 (PLUS Sign)</p>	
<p>Braille Follows Active DOTS 1-2-6 CHORD</p>	
<p>Active Follows Braille DOTS 1-2-7 CHORD</p>	
<p>Route Braille Cursor to PC Cursor LEFT SHIFT+DOTS 3-4-6</p>	

Route Braille Cursor to Active Cursor
LEFT SHIFT+DOTS 3-6



PC Cursor

The PC cursor is used for navigation and follows the focus of the system.

The PC cursor is usually a vertical line that blinks in a document indicating the insertion point. But it can also be represented by a highlight bar in a menu, or a focus rectangle in a dialog box.

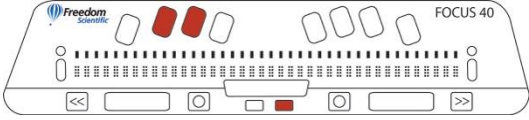
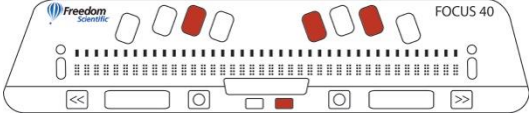
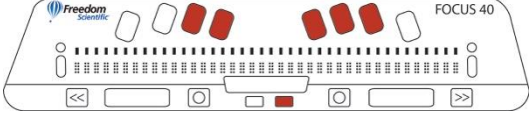
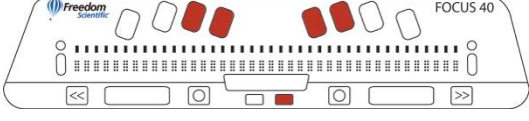
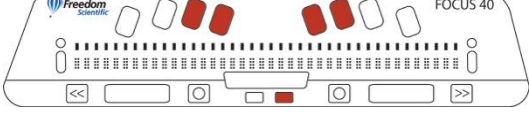
JAWS Cursor

JAWS cursor takes over to perform actions that would normally be done using the mouse. The JAWS cursor is the mouse pointer. It can go places where the PC cursor cannot, for example, to the title bar at the top of many Windows applications. The JAWS cursor is used to manipulate the system mouse, read static text to which the PC cursor does not have access, and to access other parts of Windows to which the PC cursor cannot be moved.

Source: www.freedomscientific.com

Utility Functions

The following are keystrokes for general utility functions.

<p>Run JAWS Manager RIGHT SHIFT+DOTS 2-3</p>	
<p>Set Frame Top LEFT RIGHT SHIFT+DOTS 2-4-6</p>	
<p>Set Frame Bottom RIGHT RIGHT SHIFT+DOTS 1-2-4-5-6</p>	
<p>Graphics Labeler RIGHT SHIFT+DOTS 1-2-4-5</p>	
<p>JAWS Find RIGHT SHIFT+DOTS 1-2-4 CHORD</p>	
<p>JAWS Find Next RIGHT SHIFT+DOTS 2-5</p>	