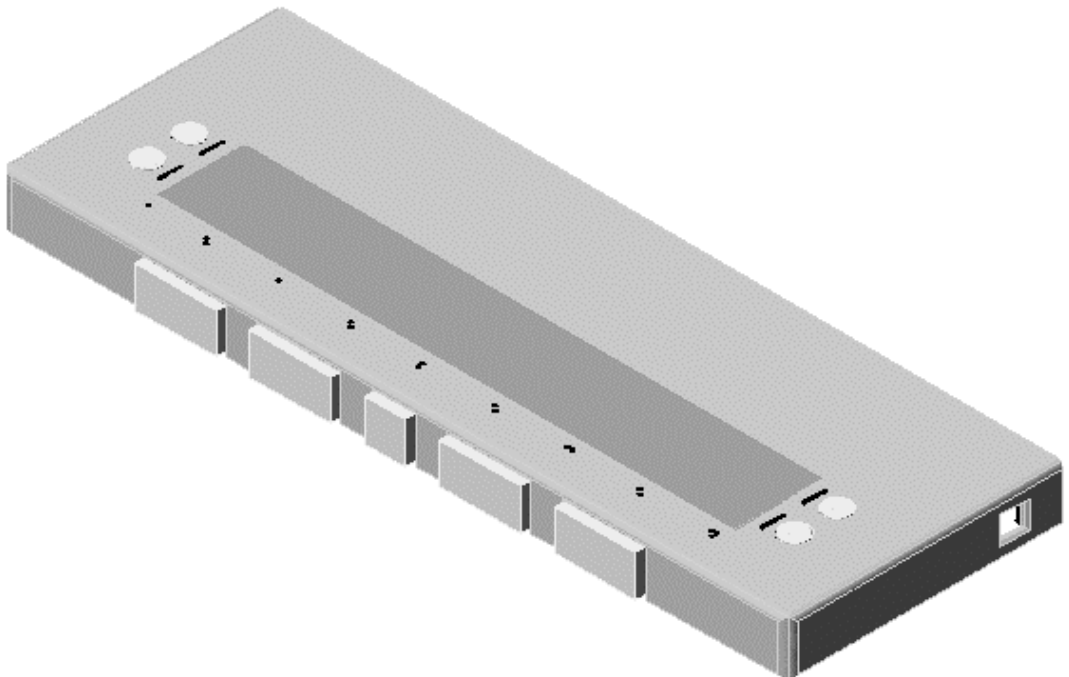


# SEIKA

## Trans Braille 40 Braille Display

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User's Manual



## Preface

Thank you very much for purchasing a Trans Braille 40, Seika Braille Display.

This Braille display enables pins to display characters as they appear on the Windows screen.

Before using the display, please read this user's manual carefully.

If there is anything that you don't understand about using the display, or if you find mistakes or omissions in this user's guide, please contact us by letter, FAX, or telephone.

### Safety Precautions:

This User's manual describes safety precautions according to the following level and marks of warning.

Warning mark	Mark to Prohibit	Procedures
		
Warning    Caution	Actions Prohibited	Disconnect the power plug



**【Warning】**

This precaution must be followed, or it could cause of fire or electric shock which could result in serious injuries or death.



**【Caution】**

This precaution must be followed, or it may cause of electric shock and/or any other accidents which may result in injuries and/or partial damage of the products or surrounding equipment.

- Unauthorized reproduction of this document, in whole or in part, is strictly prohibited.
- Modifications to the contents of this document for improvements or revisions may be made without prior notification.
- Product liability is limited within the country of original purchase.

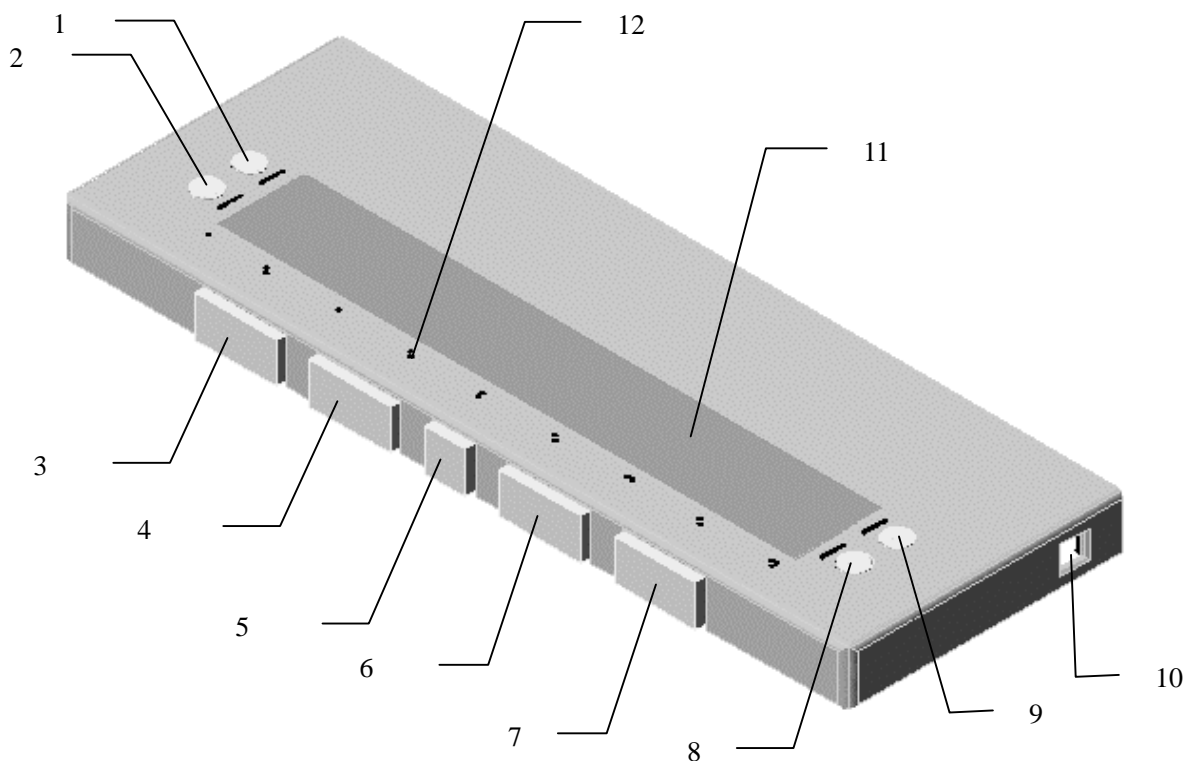
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## Chapter 1 - Overview of the Trans Braille 40

### 1. Name and Functions of All Components

#### 1.1 Full View Illustration of the Product



1~9--- Key    10---USB Interface    11---Display    12---Cell Position Mark

#### Trans Braille 40, Seika Braille Display's size:

13.8(W) x 4.9(D) x 1(H) inches and weight: 0.7 kg

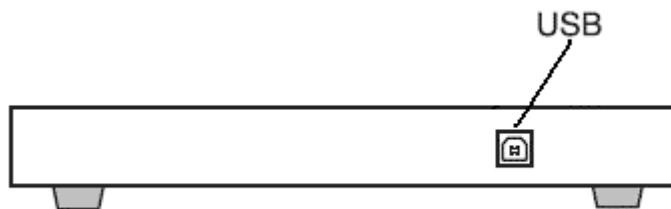
## Display

This is a Braille display, which is compatible with an 8-pin Braille hardware. It is possible to display 40 cells.

## Cell Position Mark

It marks the cell position. There is a position mark per 5 cells. From left to right it means the 1st, 5th, 10th, 15th, 20th, 25th, 30th, 35th, 40th cell.

### 1.2 Illustration of Left View



## USB Communications Connector

This is the USB communications connector. There is no need for an electrical cable since the Braille display will be attached to the PC.



**【Caution】** : When a laptop computer is used for operating the braille display, please make sure that the PC is supplied with power via the electrical cable not by battery. Otherwise it may cause a deficiency in the power supply.

## **2. Alarms**

### **Connecting Alarms**

When the Braille display is connected with the PC, two short beeps will be heard.

## **3. Sleep mode**

Braille display will enter the sleep mode if there is not any operation within 3 minutes.

## Chapter 2 - Setup

### 1. Service Precautions (at setup time)



**【Prohibited】** : Avoid use of the display in the following areas they may because for malfunctions:

- Direct sunlight, near air conditioners or outside.
- High humidity, such as those near a water supply or humidifier, or any place with water, oil, or chemicals.
- Avoid contact with dust, waste particles, near open windows, or locations with any toxic gases or iron powder.

Also, do not install the display near any televisions, radios, speakers, short-wave radios, or anything that is magnetic or emits radio waves. If you use it adjacent to any of these items, it can interfere with reception.

### 2. Installation Space



**【Caution】** : Install the product in a location which meets the following criteria:

- The product must be installed on a level surface.
- It is recommended to avoid put anything heavier than a keyboard or a laptop computer or similar on top of the device as it may cause malfunction.



### 3. Operating Environment

- Temperature: 41 – 95 °F (5 – 35 °C)
- Humidity: 20 - 80% (no condensation)

### 4. Precautions for Moving



#### 【Warning】

- Violent shaking or vibrations at the time of moving may cause product failures.



#### 【Requirement】

- Turn the power off the PC which is connected with this equipment, and disconnect the USB cable, then move the equipment.

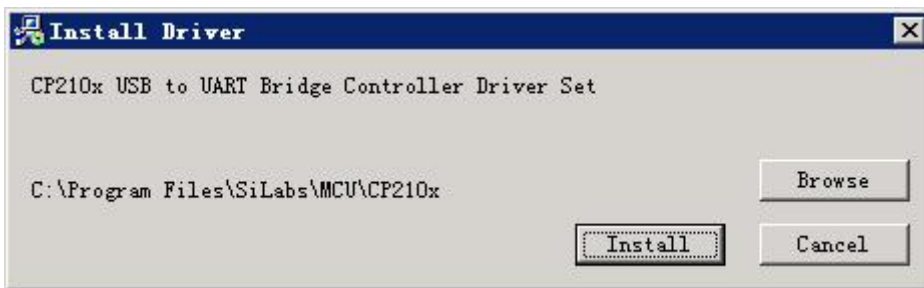
## Chapter 3 - Connecting with the Trans Braille 40

### 1. Installation of the USB Driver (Windows98)

When connecting an operating PC with the braille display, it is necessary to install the USB driver.

Please follow the instruction below.

- Place the CD into the CD driver, and run “driver\Preinstall.exe”.



- Click “Install”.



- Click “OK”.
- Connect the Seika display.
- Then double click “CD-ROM:\ set port\win98\ change port.bat”, and reset your computer. (This program fixes braille display to the com1).

### 2. Disconnecting with the braille display from Windows98

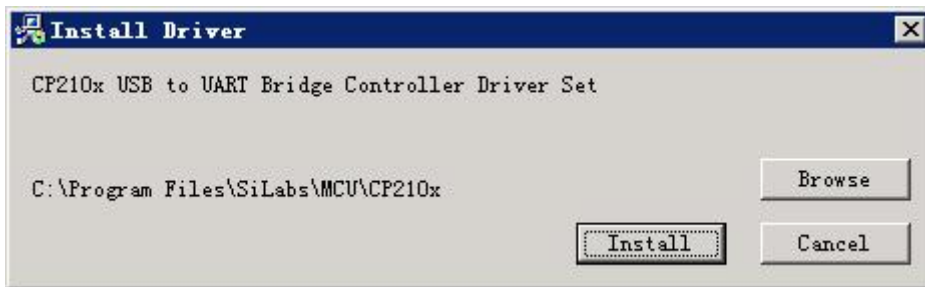
Please make sure all software using the braille display is closed. Then detach USB cable from the PC.

### 3. Installation of the USB Driver (Windows2000)

When connecting an operating PC with the braille display, it is necessary to install the USB driver.

Please follow the instruction below.

- Place the CD into the CD driver, and select “driver\Preinstall.exe”.



- Click “Install”.



- Click “OK”.
- Connect the Seika display.
- Then double click “CD-ROM:\ set port\win2000\ change port.bat”, and reset your computer. (This program fixes braille display to the com1).

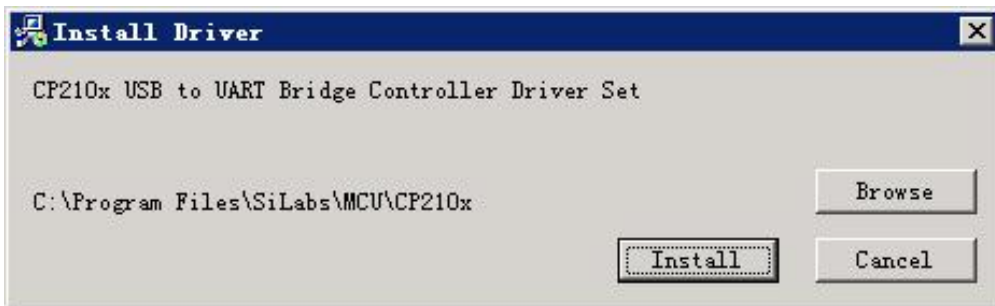
### 4. Disconnecting with the braille display from Windows2000

Please make sure all software using the braille display is closed. Then detach USB cable from the PC.

## 5. Installation of the USB driver (WindowsXP)

When connecting your PC with the braille display, it is necessary to install the USB driver. Please follow the instruction below.

- Place the CD into the CD driver, and select “driver\Preinstall.exe”.



- Click “Install”.



- Click “OK”.
- Connect the Seika display.
- Then double click “CD-ROM:\ set port\winXP\ change port.bat”, and reset your computer. (This program fixes braille display to the com1).

## 6. Disconnecting with the braille display from WindowsXP

Please make sure all software using the braille display is closed. Then unplug the USB cable from the PC.

## Chapter 4 - Configuring your screen reader

### 1. Configuring the software

The Trans Braille 40 is operated with “Power Braille 40” compatibility mode. Please setup the screen reader or Braille editing software as follows:

Braille Display	Power Braille 40
-----------------	------------------

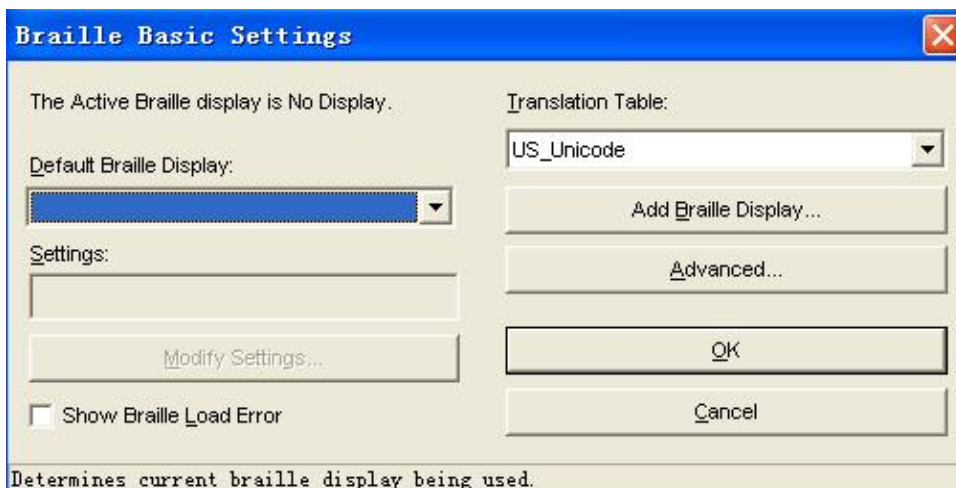
### 2. Working in JAWS

#### 2.1 Configuring JAWS

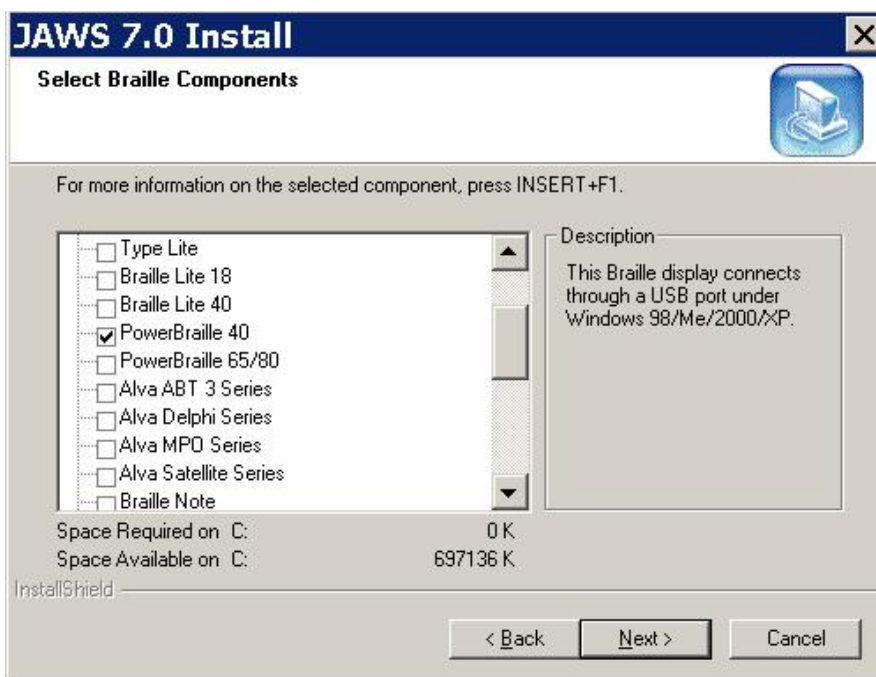
The braille display is not recognized by JAWS. Therefore, you need to set the default display to Power Braille 40. To do this:

- Connect the Seika display.
- In JAWS, open the “Braille basic settings” dialog box from within the “options” menu.

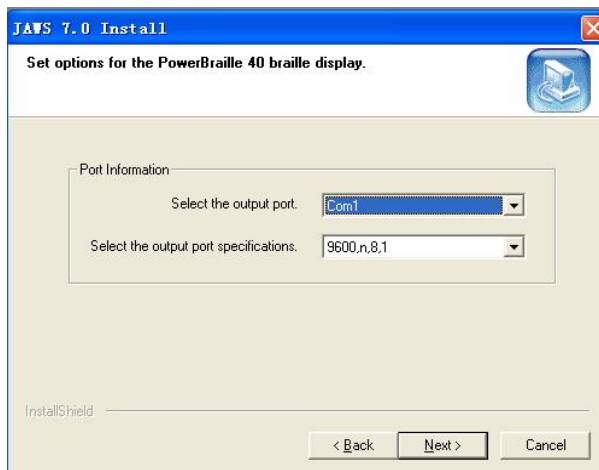




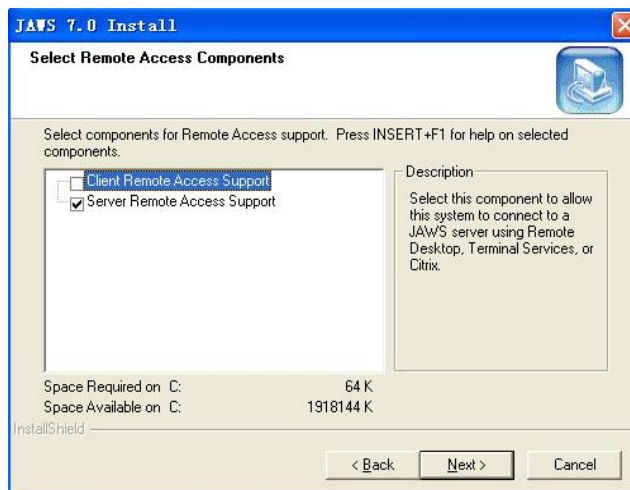
- Assuming that the active braille display, and the default braille display are both set to “No display”, tab to the “add Braille Display” button and press enter.
- The JAWS install wizard will open. You will see a list of braille displays (or braille Components). Select the Power Braille 40 by pressing the space bar.



- Tab to the “Next” button and press enter.
- Select the Power Braille 40 as the default display.
- Tab to the “Next” button and press enter.
- You will be prompted to set the output port. Choose COM1.

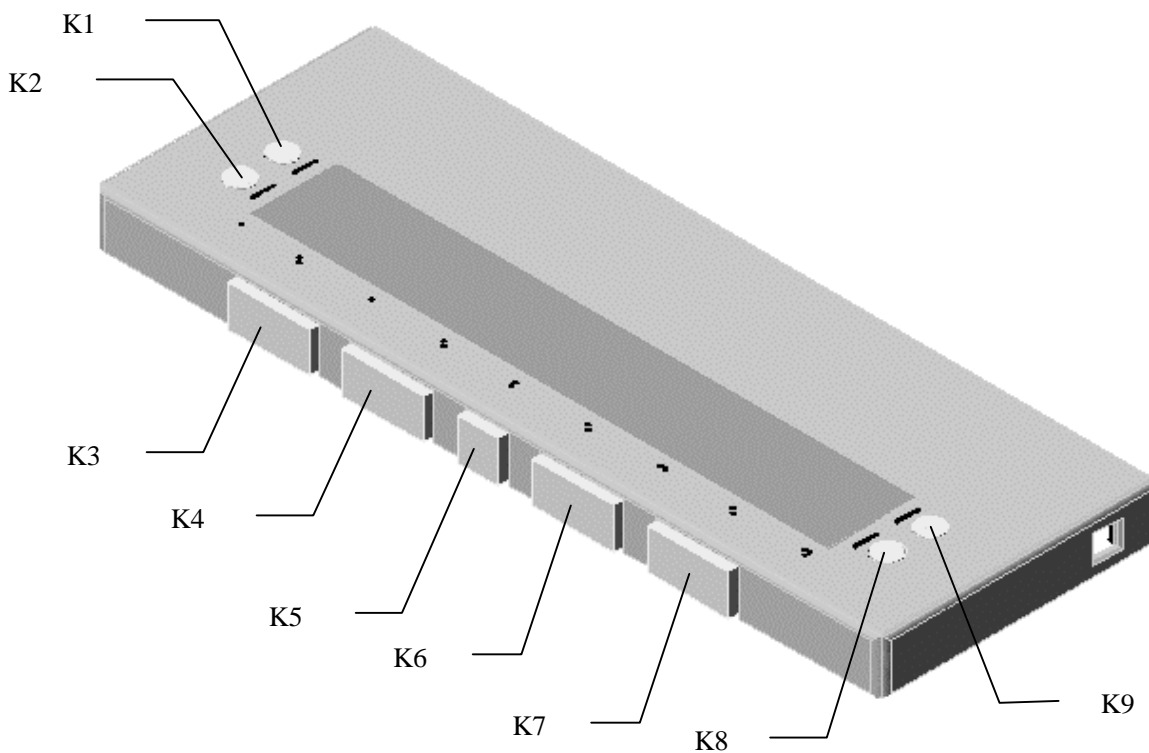


- Tab to the “Next” button .
- You will be prompted to set Remote Access Components. Ignore this and tab to the “Next” button and press enter.



- You will be prompted to select the Sentinel System Driver for dongle support. Ignore this and tab to the “Next” button and press enter.
- Press the “Finish” button.

## 2.2 Keys function





**Braille Commands:**

<b>Description</b>	<b>Command</b>
Braille Mode Toggle	K3 + K7
Attribute/Character mode toggle	K4 + K6
Attribute Marking Dialog	K2 + K3
Attribute Marking Off	K6 + K7
Braille Marking Off	K6 + K7
8-Dot/6-Dot Toggle	K2 + K8
8 Pixels/Unlimited Pixels Per Space	K1 + K9
Repeat Last Flash Message	K4 + K7

**Navigation Commands:**

<b>Description</b>	<b>Command</b>
Auto Advance Mode	K2 + K4
Increase Auto Advance Speed	K1+K5
Decrease Auto Advance Speed	K5 + K9
Top Of Window	K4 + K5
Bottom Of Window	K5 + K6
Pan Left	K2 or K3
Pan Right	K7 or K8
Braille Next Line	K6
Braille Prior Line	K4
PAGE DOWN (Active Cursor)	K9
PAGE UP (Active Cursor)	K1
TAB	K5 + K7
CTRL+TAB	K2 + K6
SHIFT+TAB	K5 + K8
CTRL+SHIFT+TAB	K2 + K7

## Cursor Commands:

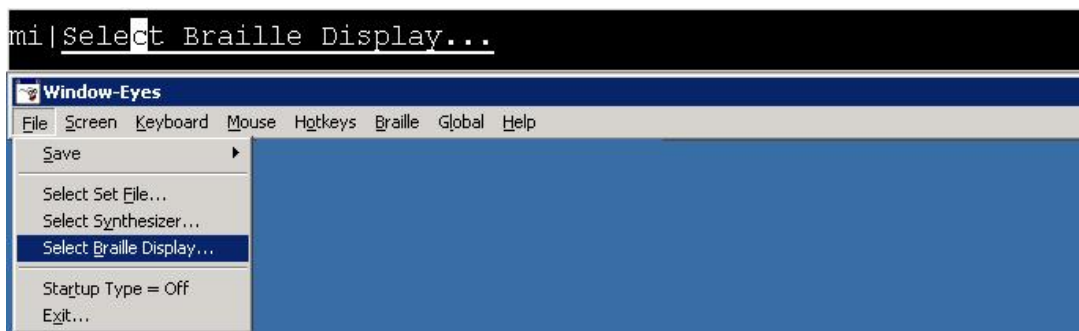
Description	Command
Braille follows Active	K3 + K4
Active follows Braille	K3 + K8
Route Braille To Active	K3 + K6
JAWS Cursor	K4 + K8
Mouse Button Right Click	K7 + K8
PC Cursor	K6 + K8
Route JAWS to PC Cursor	K2 + K5
Route PC to JAWS Cursor	K3 + K5
Select Text	Any Cursor Routing Button + K5

## 3.Working in Window-eyes

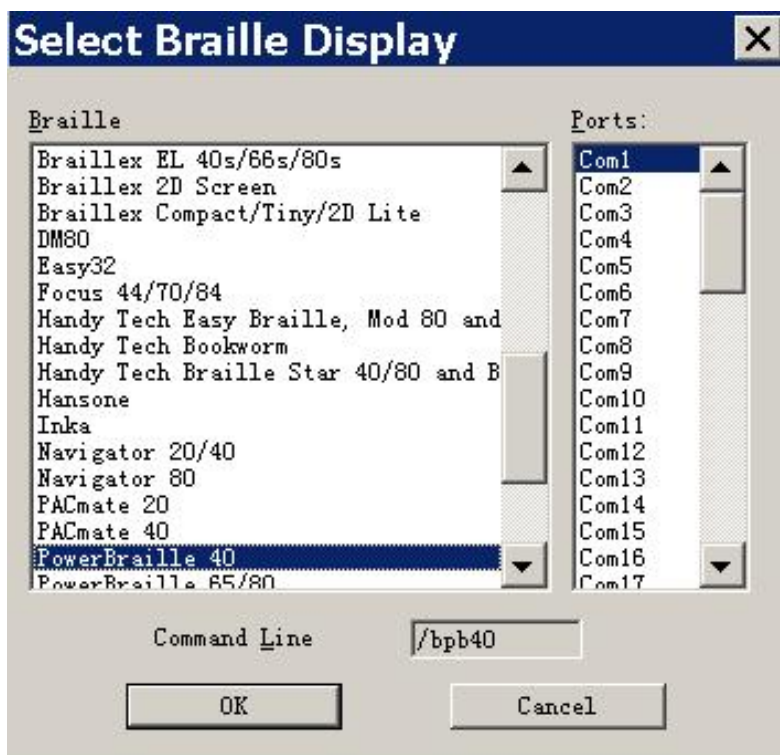
### 3.1 Configuring Window-eyes

The braille display is not recognized by Window-eyes. Therefore, you need to set the default display to Power Braille 40. To do this:

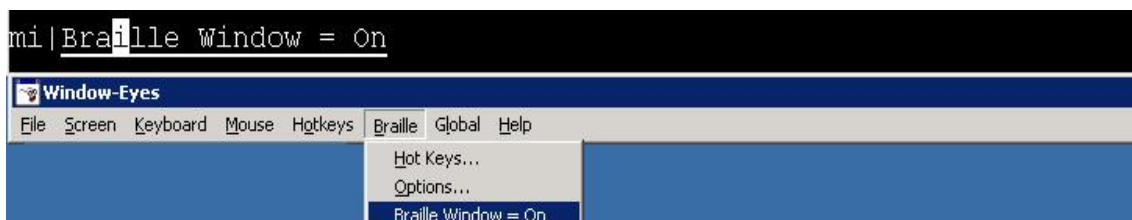
- Connect the Seika display.
- Run Window Eyes Main Screen.
- Select File, then select Braille Display.



- Select Power Braille 40.

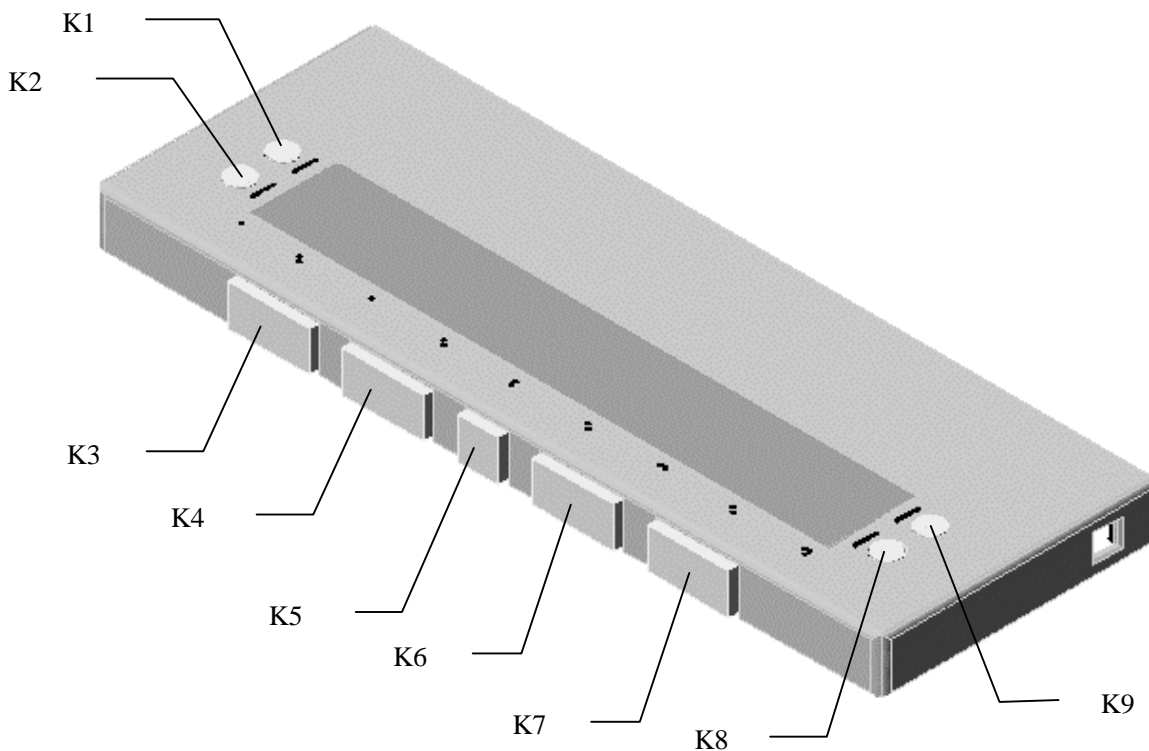


- Return to the Window Eyes Main Screen.
- Select Braille.



- Set Braille Window = on.

### 3.2 Keys function



Description	Command
Scroll Braille Left	K2 or K3
Scroll Braille Right	K7 or K8
Prior Braille Line	K4
Next Braille Line	K6
Top Line	K1
Bottom Line	K9
Mouse Top Left	K1 + K5
Mouse Bottom Left	K2 + K5

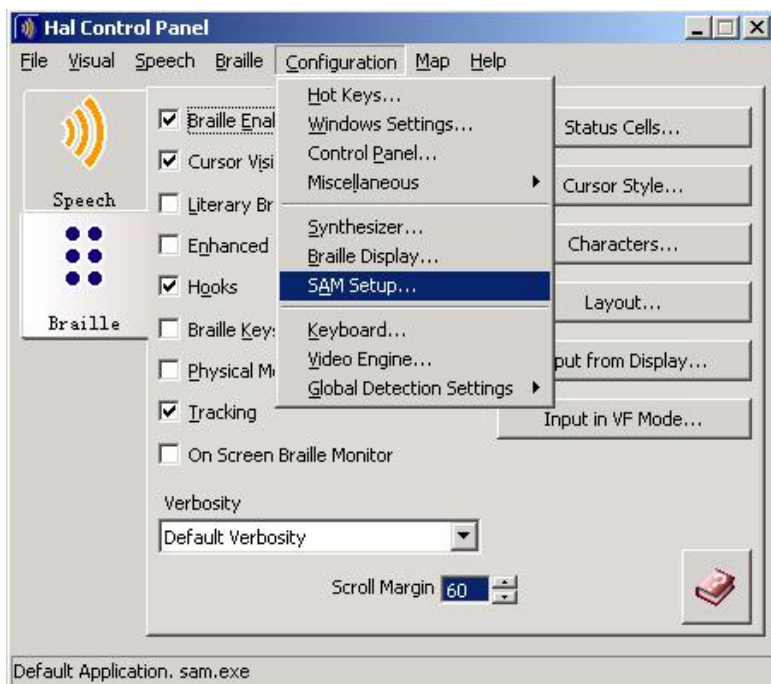
Mouse Top Right	K5 + K9
Mouse bottom right	K5 + K8
Go to Focus	K3 + K5
Grade 2 Braille Toggle	K4 + K5
Untranslate At Cursor	K5 + K6
Untranslate At Mouse	K5 + K7
Scroll Mode Toggle	K2 + K7
Spacing Toggle	K2 + K6
Attributes To Show Rotor	K3 + K8
Show Attributes Toggle	K4 + K8
Quick Message Rotor	K3 + K7
Display Individual Attribute Rotor	K4 + K6
Braille graphic dictionary mode	K2 + K4
Toggle 6/8 Braille	K6 + K8
Braille tracking toggle	K7 + K8

## 4. Working in Dolphin

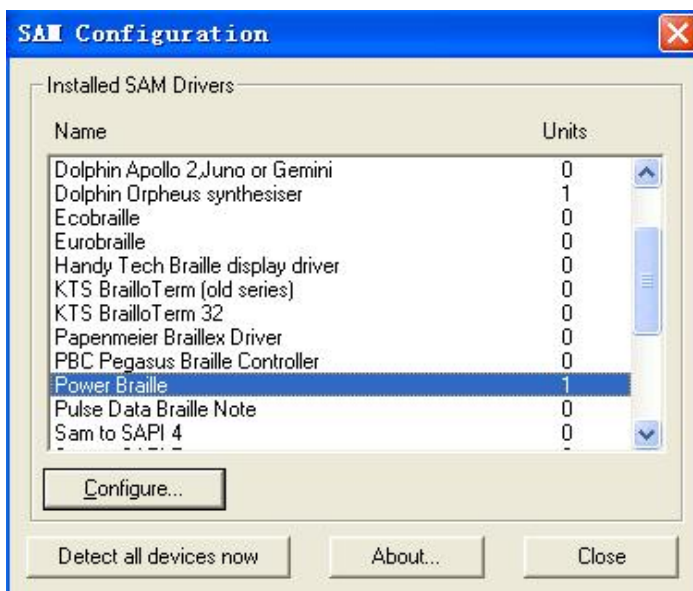
### 4.1 Configuring Dolphin

The braille display is not recognized by Dolphin. Therefore, you need to set the default display to Power Braille 40. To do this:

- Connect the Seika display.
- Run HAL.
- Open the HAL Control Panel Window.
- Select Configuration.



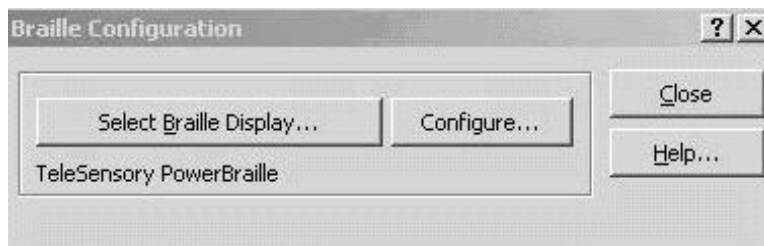
- Select SAM Set UP.
- Select “Detect All Devices now”.



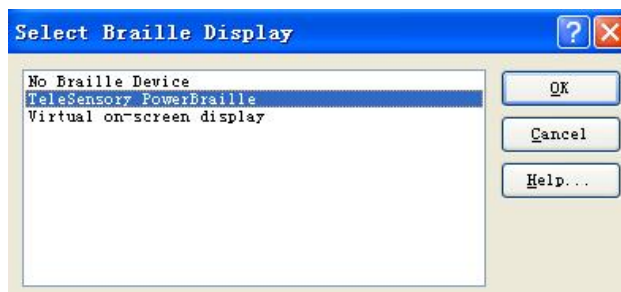
- HAL will automatically detect the Seika.
- Return to the HAL Control Panel Window.
- Select “Braille Display”.



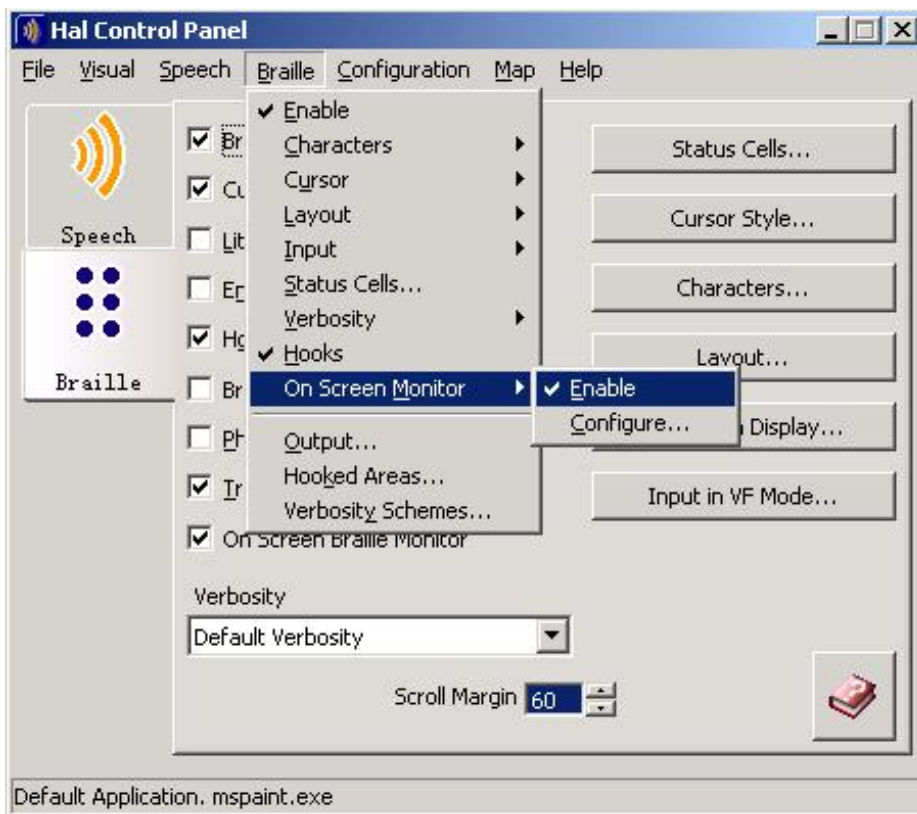
- Click “Braille Display”.



- Select from the list TeleSensory PowerBraille.

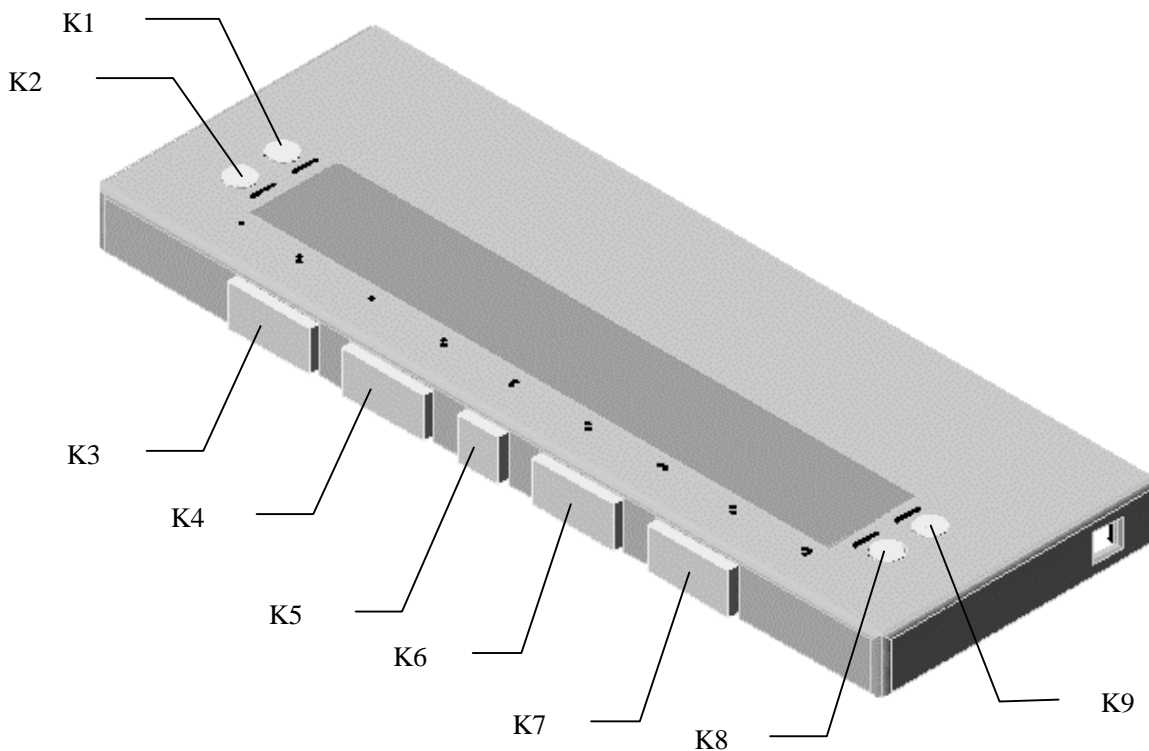


- Return to HAL Control Panel.
- Ensure that the On Screen Monitor is enabled.





### 4.2 Keys function



<b>Action</b>	<b>Key press</b>
Action Open Control Panel	K3 + K8
Speak Keys Where am I?	K3 + K5
Braille Back	K2 or K3
Braille Forward	K7 or K8
Braille Line up	K4
Virtual Focus Move Physical Up	K4
Braille Line down	K6
Virtual Focus Move Physical Down	K6
Braille Go To Focus	K1 + K5
Braille Line Start	K4 + K7
Braille Line End	K6 + K7
Braille Top	K1
Braille Bottom	K9

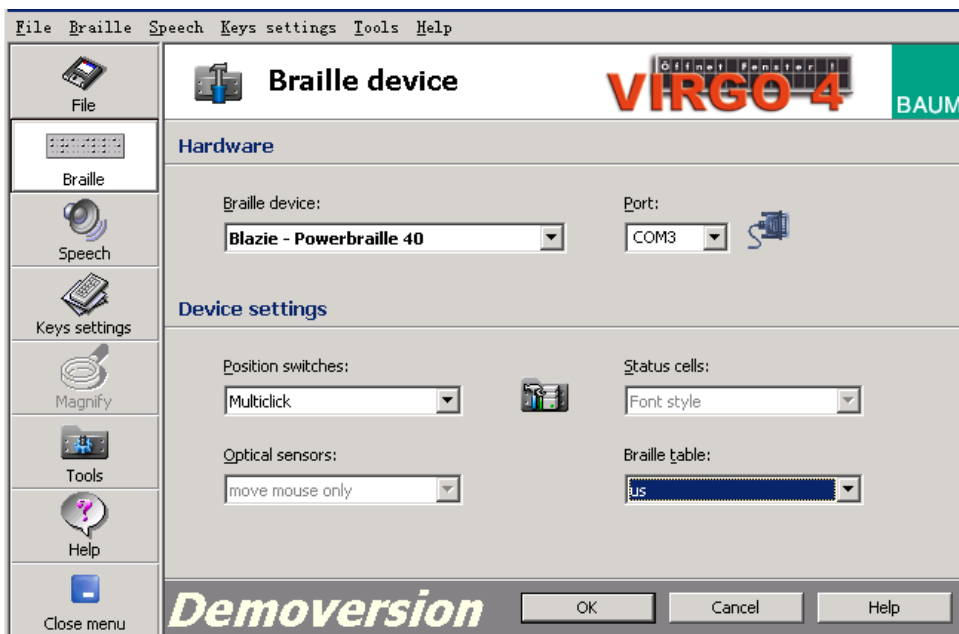
Braille Cell Left	K3 + K6
Braille Cell Right	K3 + K7
Braille Toggle Physical/Logical Mode	K4 + K8
Virtual Focus Physical on off	K4 + K8
Braille Toggle Literary Braille on off	K4 + K5
Braille Cycle Attributes	K3 + K4
Braille Toggle Describe Character on off	K5 + K9
Braille Hooks on off	K5 + K6
Braille Toggle tracking on off	K2 + K5
Braille Enhance on off	K4 + K6
Braille Toggle Show Layout	K2 + K8
Simulate Key Press Up	K2 + K4
Virtual Focus Previous Line	K2 + K4
Simulate Key Press Down	K6 + K8
Virtual Focus Next Line	K6 + K8
Simulate Key Press Enter	K2 + K6
Virtual Focus Interact with control	K2 + K6
Simulate Key Press Tab	K2 + K3
Virtual Focus Next Object	K2 + K3
Simulate Key Press Shift Tab	K7 + K8
Virtual Focus Previous Object	K7 + K8
Simulate Key Press Escape	K2 + K7
Simulate Key Press Windows	K5 + K7
Simulate Key Press Alt	K5 + K8

## 5 Working in Virgo

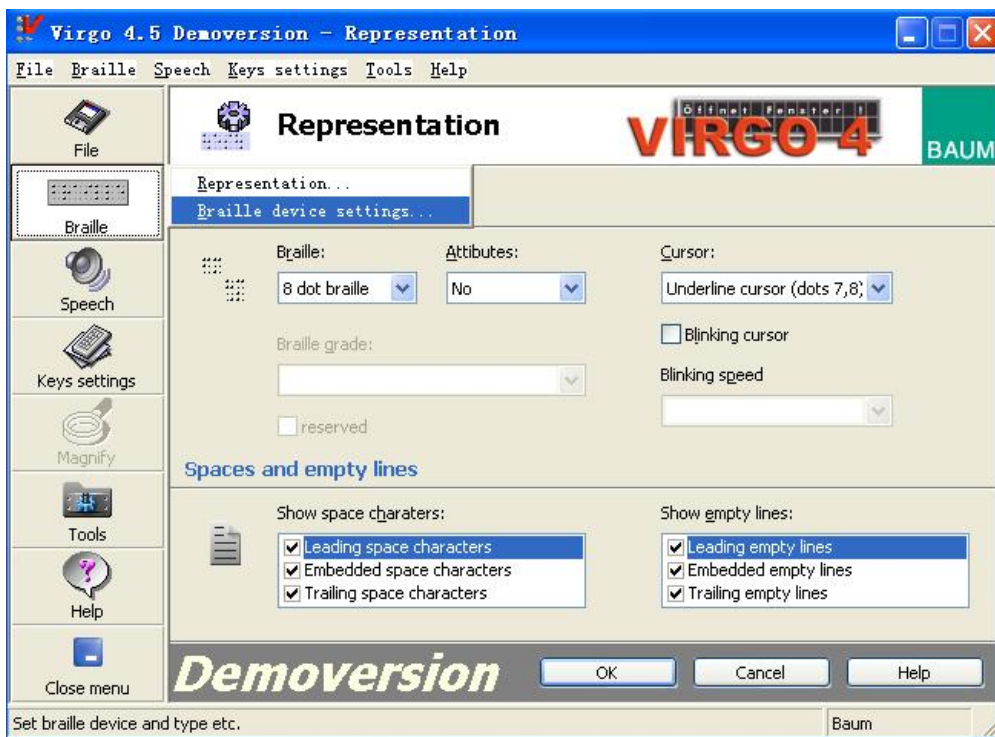
### 5.1 Configuring Virgo

The braille display is not recognized by Virgo. Therefore, you need to set the default display to Power Braille 40. To do this:

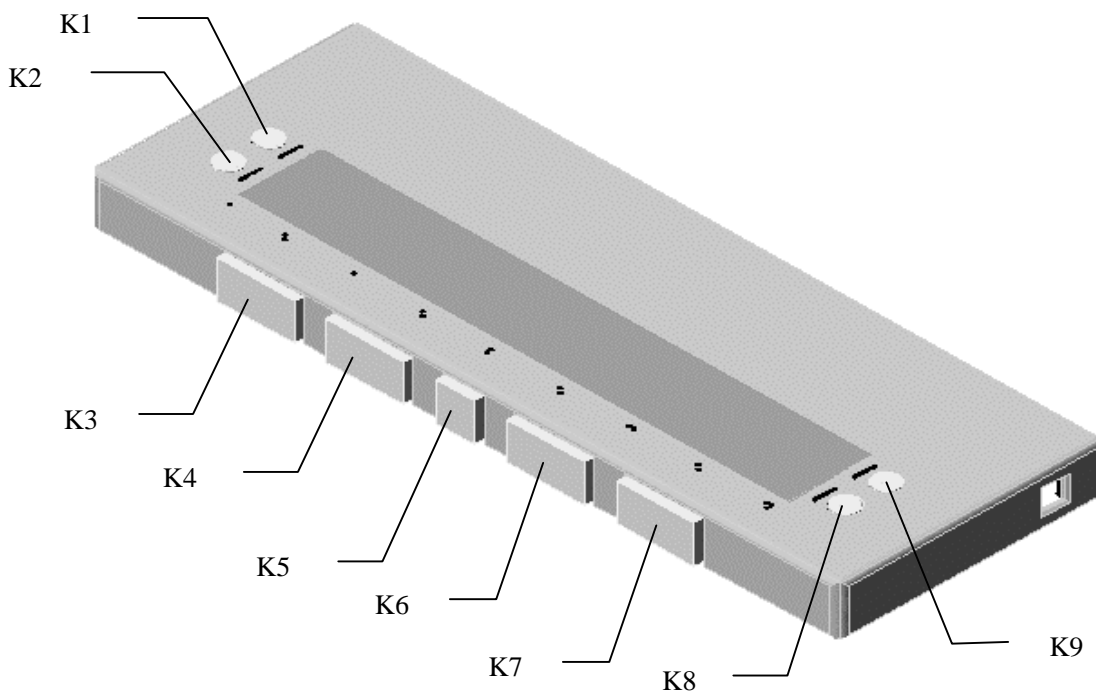
- Connect the Seika display.
- Run Virgo main screen.
- In Virgo, open the “REPRESENTATION...” dialog box from within the “Braille” menu.



- Open the “Braille device setting” dialog box from within the “Braille” menu.



## 5.2 Keys function



<b>Action</b>	<b>Key press</b>
Scroll left	K2 or K3
Move navigation to focus	K2 + K5
Configure speech output	K2 + K6
Scroll right	K7 or K8
Previous item or up screen	K4
Move mouse pointer to navigation	K5 + K9
Window specific help	K2 + K7
Move navigation to the top	K1
Speech output on/off	K3 + K8
Next item or down screen	K6
Show Virgo menu	K5 + K8
Move navigation to the bottom	K9
Single left virgo click (mouse click)	K3 + K5

Single right virgo click (mouse click)

K5 + K7

Move up hierarchy

K4 + K5

Move navigation to mouse pointer

K1 + K5

Move down hierarchy

K5 + K6

## Chapter 5 - Display Specifications

Display system	8 dots Braille
Display capacity	40 cells
Cursor key	8 Control keys 1 Shift key
Touch cursor key	40 keys
Character code	original code
Interface	USB
Power supply	bus power
Size	13.8(W) x 4.9(D) x 1 (H)inches
Weight	0.7kg

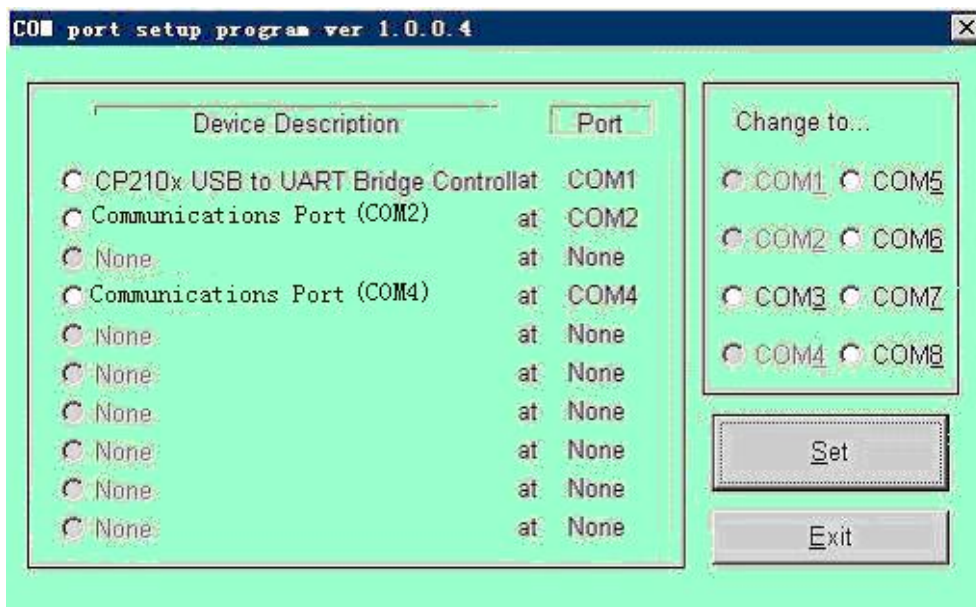
## APPENDIX

### 1. How to verify which COM port has been used by Trans Braille 40

- Double click “CD-ROM:\tool\SetCOM.exe”.
- Click SetCOM icon.



- Look at which COM port has been used by Trans Braille 40.



### 2. How to release the Trans Braille 40 from the com1

#### Windows98:

Double click “CD-ROM:\reset port \ reset98\resetwin98.bat”, after this reset your computer.

**Windows2000:**

Double click “CD-ROM:\reset port \ reset2000\resetwin2000.bat”, after this reset your computer.

**WindowsXP:**

Double click “CD-ROM:\reset port \ resetXP\ resetwinxp.bat”, after this reset your computer.

**3. How to uninstall the Braille display drive**

- Launch the Windows Control Panel.
- Select “Add/Remove Programs” and press enter.
- Remove the Braille display driver “CP210x USB to UART Bridge Controller”.
- Delete the folder in “C:\Program Files\Silabs”.