# SEIKA Trans Braille 40 Braille Display

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
	$\bigcirc$	
Warning Caution	Actions Prohibited	Disconnect the power plug
(Warning)	This precaution must be follow fire or electric shock which co injuries or death.	ved, or it could cause of uld result in serious
Caution ]	This precaution must be follow electric shock and/or any other result in injuries and/or partial surrounding equipment.	ved, or it may cause of accidents which may damage of the products or

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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:  $41 95 \ ^{\circ}F \ (5 35 \ ^{\circ}C)$
- Humidity: 20 80% (no condensation)

#### 4. Precautions for Moving



• 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.



he Active Braille display is No Display.	Iranslation Table:
efault Braille Display:	US_Unicode
•	Add Braille Display
ettings:	<u>A</u> dvanced
Modify Settings	<u>o</u> k
Show Braille Load Error	Cancel

- 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.

For more information on the selected co Type Lite Braille Lite 18 Braille Lite 40 Verification of the selected co Braille Lite 40 Verification of the selected PowerBraille 40 Alva ABT 3 Series Alva ABT 3 Series Alva Delphi Series Alva MPO Series Alva Satellite Series Braille Note	nponent, press INSERT+F1. Description This Braille display connects through a USB port under Windows 98/Me/2000/XP.
Space Required on IC: Space Available on IC:	0 K 697136 K

- 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.

		Å
Port Information Select the output port. Select the output port specifications.	[Com1  9600,n.8,1	<b>•</b>
taliShield		

- 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.

elect Remote Access Components	
Select components for Remote Access support. Pr components.	<ul> <li>Biggin Provide the second secon</li></ul>
l Space Required on C: E Space Available on C: 191814 Isbiał	4 K 4 K

- 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



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Braille Commands:	
Description	Command
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:**

Description	Command
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.

mi  <u>Sele<mark>c</mark>t Bra</u>	ill	e Dis	spla	y					
😽 Window-Eyes									
<u>File</u> <u>Screen</u> <u>K</u> eyboard !	Mouse	H <u>o</u> tkeys	Braille	Gļobal	Help				
<u>S</u> ave	•								
Select Set <u>F</u> ile Select S <u>y</u> nthesizer									
Select Braille Display									
Sta <u>r</u> tup Type = Off E <u>x</u> it									

• Select Power Braille 40.

Com2 Com3 Com4 Com5	
Com3 Com4 Com5	
Com4 Com5	
Comp	
	1.0
Com7	
Con8	
Com9	
Com10	
Com11	
Com12	
Com13	
Com14	
Com15	
Com16	-
Com17	
	Com8 Com9 Com10 Com11 Com12 Com13 Com14 Com15 Com16

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

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1 W	'indow-E	yes																																																											
Eile	Screen	<u>K</u> eyboard	Mouse	H <u>o</u> tkeys	Braille	Gļobal	Help	 																																																					
					<u>H</u> ot Opti Brai	Keys ons le Windo	w = On																																																						

• 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

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Mouse T	op Right	K5 + K9	
Mouse bo	ttom right	K5 + K8	
Go to	Focus	K3 + K5	
Grade 2 Br	aille Toggle	K4 + K5	
Untranslate	e At Cursor	K5 + K6	
Untranslate	e At Mouse	K5 + K7	
Scroll Mo	ode Toggle	K2 + K7	
Spacing	g Toggle	K2 + K6	
Attributes To	Show Rotor	K3 + K8	
Show Attrib	outes Toggle	K4 + K8	
Quick Mes	ssage Rotor	K3 + K7	
Display Individu	al Attribute Rotor	K4 + K6	
Braille graphic	dictionary mode	K2 + K4	
Toggle 6	/8 Braille	K6 + K8	
Braille trac	king 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.

jie ⊻isual	Speech Braille	Configuration Map Help Hot Keys	
<i>»</i> ))	I I Braille Enal I Cursor Visi	<u>W</u> indows Settings Control <u>P</u> anel Miscellaneous	Status Cells
Speech	□ Literary Br	Synthesizer Braille Display	Characters
•• Braille	<ul> <li>✓ Hooks</li> <li>✓ Braille Key:</li> <li>✓ Physical Me</li> </ul>	SAM Setup Keyboard Video Engine Global Detection Settings	Layout
	Verbosity	Braille Monitor	Input in VF Mode
	Default Verbos	sity 💽 Scroll Margin 60 🛒	Ì

- Select SAM Set UP.
- Select "Detect All Devices now".

Name	Units	
uno or Gemini لر Dolphin Apollo 2	0	~
Dolphin Orpheus synthesiser	1	H
Ecobraille	0	
Eurobraille	0	
Handy Tech Braille display driver	0	
KTS BrailloTerm (old series)	0	
KTS BrailloTerm 32	0	-
Papenmeier Braillex Driver	0	
PBC Pegasus Braille Controller	0	
Power Braille	1	
Pulse Data Braille Note	0	
Sam to SAPI 4	0	Y

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

Mal Cor	ntrol Panel			
<u>F</u> ile <u>V</u> isual	<u>Speech</u> Braille	Configuration	<u>Map H</u> elp	
)) Speech	✓ Braille Enable ✓ Cursor Visible Literary Brail	<u>H</u> ot Keys <u>W</u> indows Sett Control <u>P</u> ane Misce <u>l</u> laneou	tings •1 15	▶ e
	Enhanced Chara	<u>S</u> ynthesizer.	<i></i>	
		<u>B</u> raille Disp	play	
99	Hooks	S <u>A</u> M Setup		
Braille	Braille Keys I Physical Mode	<u>K</u> eyboard <u>V</u> ideo Engine <u>G</u> lobal Detec	e ction Settings	play
	On Screen Brai Verbosity	lle Monitor		
	Default Verbosit;	7 💉		
	Scr	oll Margin 40		<b>Ø</b>
Default Appli	cation. winword.ex	e		

• Click "Braille Display".

	1 1	⊆lose
Select Braille Display	Configure	-
TeleSensory PowerBraille		<u>H</u> elp

• Select from the list TeleSensory PowerBraille.



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

≬ Hal Cont	rol Panel					
<u>File V</u> isual	Speech	Braille	Configuration	Мар	Help	
))	म हा ज	✓ Enal Cha Curs	ble racters sor	*	5	tatus Cells
Speech	🗖 Lit	Layo	out #		C	ursor Style
		Stat Verb	us Cells iosity	÷		Characters
	I∕ H⊆	✓ Hool	ks .			Lavout
Braille	_ 🗆 Br	On S	5creen <u>M</u> onitor	•	✓ Enable	
	다 만 고 Ir 고 Or Verbo	Qutj Hoo Vert Screen	but Ked Areas bosity Schemes Braille Monitor	]	<u>C</u> onfigure Inpu	ut in VF Mode
	Defau	ult Verbo	osity		-	
			Scroll Ma	rgin 🔓	0 🗄	Ì
efault Applic	ation. msp	aint.ex	е			

#### 4.2 Keys function



Action	Key press
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

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Brai	lle Cell Left	K3 + K6	
Brail	le Cell Right	K3 + K7	
Braille Toggle	Physical/Logical Mode	K4 + K8	
Virtual Foo	cus Physical on off	K4 + K8	
Braille Toggle	Literary Braille on off	K4 + K5	
Braille (	Cycle Attributes	K3 + K4	
Braille Toggle D	escribe Character on off	K5 + K9	
Braille	e Hooks on off	K5 + K6	
Braille Tog	gle tracking on off	K2 + K5	
Braille	Enhance on off	K4 + K6	
Braille To	ggle Show Layout	K2 + K8	
Simulat	e Key Press Up	K2 + K4	
Virtual Fo	cus Previous Line	K2 + K4	
Simulate	Key Press Down	K6 + K8	
Virtual I	Focus Next Line	K6 + K8	
Simulate	Key Press Enter	K2 + K6	
Virtual Focus	Interact with control	K2 + K6	
Simulate	e Key Press Tab	K2 + K3	
Virtual F	ocus Next Object	K2 + K3	
Simulate K	Ley Press Shift Tab	K7 + K8	
Virtual Foc	us Previous Object	K7 + K8	
Simulate	Key Press Escape	K2 + K7	
Simulate K	ey Press Windows	K5 + K7	
Simulat	e 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.

<u>F</u> ile <u>B</u> raille <u>S</u>	peech <u>K</u> eys settings <u>T</u> ools <u>H</u> elp	
<b>File</b>	👔 Braille device	VIRCO 4 BAUM
	Hardware	
Braille		
Ø.	<u>B</u> raille device:	Port:
	Blazie - Powerbraille 40	🔹 Сомз 💌 🚰
Speech		
	Device settings	
Keys settings	g.	
	Position switches:	Status cells:
Magnify	Multiclick	Font style
Tools	Optical sensors:	Braille <u>t</u> able:
	move mouse only	us
Help		
	-	
Close menu	Demoversion	OK Cancel Help

• Open the "Braille device setting" dialog box from within the "Braille" menu.

¥ Virgo 4.5	Demovers	ion - Repre	sentation		
<u>F</u> ile <u>B</u> raille <u>S</u>	peech <u>K</u> eys	settings <u>T</u> ool	s <u>H</u> elp		
File		Represer	ntation	VIRCO	ваим
[	<u>R</u> epresen	tation			
Braille	Braille	device setting:	5		
Ø.	##	B <u>r</u> aille:	<u>A</u> ttibutes:	⊆ursor:	
Speech		8 dot braille 📘	No 💌	Underline cursor (dol	rs 7,8) 🔽
10h		Braille grade:		🔲 Bļinking cursor	
Keys settings				Blinking speed	
S Magnify	Snaros a	reserved	10		¥
	opaces a	ind empty inte		_	
Tools	Eta	Show space chard	aters:	Show empty lines:	
(V) Help		<ul> <li>Leading space</li> <li>Embedded sp.</li> <li>Trailing space</li> </ul>	e characters ace characters • characters	<ul> <li>Leading empty line</li> <li>Embedded empty</li> <li>Trailing empty line</li> </ul>	es lines :s
Close menu	Den	nover:	sion 🗖	OK Cancel	) Help
Set braille device and	l type etc.				Baum

#### 5.2 Keys function



Action	Key press
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

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Single right virgo	click (mouse click)	K5 + K7	
Move up	hierarchy	K4 + K5	
Move navigation	n to mouse pointer	K1 + K5	
Move dow	n 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.

Device Description		Port	Change to
C CP210x USB to UART Bridge Contro	ollat	COM1	
🔿 Communications Port (COM2)	at	COM2	
Ö None	at	None	
C Communications Port (COM4)	at	COM4	
O None	at	None	C COLL C COLL
C None	at	None	
🖸 None	at	None	
C None	at	None	Set
C None	at	None	
🔿 None:	at	None	Exit

#### 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:

 $\label{eq:complex} Double click ``CD-ROM:\reset port \ resetXP\ resetwinxp.bat", after this reset your computer.$ 

#### 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".