

eurobraille
VOYONS ENSEMBLE

User's Manual esys12/40

Version 1.04 Revision 2

eurobraille

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ESYS FEATURES

1.1 Before start-up

1.1.1 Introduction

esys is a 12 cells or 40 cells Braille Display with note taking functionalities.

esys12, with its minimal size and weight, will work well in conjunction with a mobile phone and is compatible with screen reading software for mobile phones (Talks, Mobile Speak or Pocket Hal). With the Bluetooth connection included in **esys12**, you can for example send SMS messages from **esys**, while your phone is in your handbag.

esys40 is designed with the office use in mind; connexion to the computer (desktop or laptop) is done via either a Bluetooth (wireless) connexion or an USB port. **esys40** also integrates a Braille Keyboard and an internal memory which permits some note taking, which also make it a good mobility solution.

Both **esys12** and **esys40** include the following functionalities: PC connexion via USB or Bluetooth, connexion to a mobile phone via Bluetooth, Note-taker, Calculator, Alarm Clock, mini SD card slot; this card is used to save the notes taken on **esys** (in .txt format) and to update its firmware. Routine cursor line, 2 mini joysticks and navigation keys are integrated too.

1.1.2 Compliance to international regulations

esys is CE compliant, and respects the following international norms : NFEN60950 (security) and et EN55022 Class B edition 1994 (electro-magnetic compatibility).

esys' power supply adaptor supports Class 2 power limitation. If you need to replace the power supply adaptor, you must take one with identical technical features. It is strongly recommended to contact Eurobraille or your local distributor in case of power supply failure.

The stand-by button does not make up the power tension cutting off system. As a result, when the power supply adaptor is connected to a wall-plug, the battery is recharging, even if the device is sleeping. So, in order to cut off power supply, you need to unplug the device. Make sure you have an easy access to a wall-plug.

In case of technical failure, maintenance operations are carried out in Eurobraille headquarters. As the device may cause damage for you because of dangerous electrical

tensions, it is strongly recommended not to open it. Doing that would also make your rights of warranty or maintenance invalid.

1.1.3 Device description and start-up

esys has on both flanks sets of safety very low tension connectors (TBTS).

On the left side, from back to front:

power supply connector to plug **esys** power supply

mini USB2 connection (Mitsumi compatible), to connect **esys** to a PC

small raised round ridge with a hole in its centre enabling to reset the device with a straightened paper clip. This should be carried out exceptionally only if the device is blocked.

On the right side, from back to front:

a stand-by button enabling to power on/off **esys**

a horizontal slot for mini SD-card

To power the device on, simply press the stand-by button. The Braille display immediately shows the main menu. If not, it means that the battery is completely discharged; in that case, you need to plug it to its power supply adaptor so that you can use it immediately.

Precautions of use:

The USB connector can be plugged only one way. Do not try to force it if you plug it wrong, you may heavily damage the connector. The flat side should be plugged downwise, and the bent side upwise.

Plugging/unplugging a mini SD-card should be carried out gently. The mini SD-card slot has an auto-locking equipment, you just need to press, then release it in order to unlock the card.

To lock the mini SD-card into the device, you have to insert it a bit further than its original locking position. The mini SD-card side with a notch should be oriented to the front of the device.

Moreover, you should not unplug the mini SD-card while the device is working, because some files may be opened and could therefore be damaged. To unplug the mini SD-card, you first need to close the file you've opened in the note-taker if necessary, then, toggle to sleeping mode. Once you're done, the pins of the Braille display should erase partially and should become sleepy.

1.1.4 General features

esys is equipped with a 12 / 40 cell-piezo-electrical Braille display. Just above each cell, you can find a push-button that enables to interact with the character displayed on the corresponding Braille cell, those push-buttons are also called cursor routing keys.

Image 1: Braille cell

1	4
2	5
3	6
7	8

esys comes with two 5 contact-joystick keys (left, right, up, down and middle). Each of them will be called <LJ> for the left joystick key, and <RJ> for the right one in this manual.

esys possesses 2 wheels with three contact points (right, left and middle) for the 12 cells version and 4 wheels for the 40 cells version. All wheels have the same function regardless of which wheel you are using. In this Manual, these wheels will be noted <W>

The lithium Ion batteries include inside the device allow for a 20 hours continuous use; recharging time is four hours ; you can recharge **esys** on a normal wall plug or via a USB port. **esys** does not have an ON/OFF button but a stand-by mode in which it can remain for 10 days.

You will not need to go through a full discharge of the device to start charging it. Recharging starts automatically as soon as **esys** is connected to its battery block, whether it is on sleep or not ; charging will take slightly longer if **esys** is used simultaneously.

esys can have a USB connexion or a Bluetooth connexion to a computer, which enables it to run with software like Jaws, Windows Eyes, HAL, Cobra or readMATH.

You can also connect **esys** via Bluetooth to a Mobile phone with Talks, Mobile Speak or Mobile Accessibility, or to a PDA (via Bluetooth) with Mobile Speak Pocket or Pocket HAL.

esys12 total weight is 200 gr, with dimensions : 14,5 cm x 8,6 cm x 2 cm.

esys40 total weight is 500 gr, with dimensions : 32,5 cm x 8,6 cm x 2 cm.

1.1.5 What's in the pack

Your **esys**

Power supply 5V/1A,

Mini USB2 cable (Mitsubi compatible) to connect to a PC,

128 Mo Mini SD memory card

Mini SD – SD adaptor

Carrying bag and string (only for **esys12**)

Documentation and Drivers on a CD

1 year warranty

2 USING YOUR **ESYS**

2.1 *General Functions*

In order to switch the unit on or off, please press and immediately release the stand-by button.

Upon switching on the unit, on the Braille display the main menu appears:

```
esys:bluetooth usb notepad calculator alarm-clock tools T
```

If you wish to continue further on the displayed text in Braille (beyond the 12 or 40 cells), use the wheel to go right until you reach the “T” sign. This sign is used to show the end of the items contained in **esys**.

One of the important concepts in using **esys** is the hierarchy of menu items and the organisation of elements. In this Manual, we will use the term of infant-object in the case of an item that is contained and father-object for an item that is containing other ones.

For example, if you click on the word “calculator” by pressing one of the cursor routing keys above that word, you will display all the items in the calculator object ; the calculator will appear in an abbreviated word as a father-object (clc) with the infant-objects displayed after the punctuation sign : , as follows.

```
clc:operators memory currency T
```

You can see that this calculator object, which previously was an infant-object (or menu item), has become displayed at the beginning of the text, thus becoming a father-object.

You can continue doing this, for example by clicking on one of the cursor routing above the “operator” item; operator becomes a father-object displayed in abbreviated form at the beginning (opr) and you can see after the punctuation sign : its infant-objects.

```
opr:equal addition subtraction multiplication division percentage square  
square'root T
```

By using these two selections, you have gone down in the menu structure by two levels.

esys software works with a menu structure, which will allow you to eventually select and trigger a command. Should this command require you to choose amongst options, a dialog box is used.

As you get used to **esys**, you will notice that using such menus make it easy and intuitive to make the device work as you intend it to.

2.2 In case of troubles

The warranty period on your **esys** is 1 year. If your **esys** is locked or doesn't want to start, please try the following steps before send it back to Eurobraille.

Plug **esys** to its power supply.

Find something thin and rigid to insert into the small hole you will find on the left side of your **esys** and press softly. Doing this, you will reset you **esys** to factory default. **esys** will start in test mode (1 raised dot moving cell by cell); press one on left joystick to acced to main menu.

If even after resetting **esys** will not start, maybe the battery level is too low and you need to charge it for a while before reset again.

If of course you have no result after some times, please call Eurobraille or your local distributor to know how to send **esys** back for repairing.

3 USING ITEMS AND OBJECTS

3.1 Item identification, associated value and separator.

The identifier of an item is its name and, for certain items, an associated value. A value is assigned to a name preceding it by the sign (>).

A separator (such as an empty space or a column (:)) will follow an identifier, depending on whether it is a father-object or an infant-object; a father-object is placed at the beginning of a line.

If the identifier contains a space, its Braille reproduction will be, for the space, a Braille cell with dot8 raised.

The shortcut letter (command) used to activate a menu item directly is underlined with the dot7 raised.

Blinking dots 7 and 8 indicate the position of the cursor or of the highlighted text.

3.2 Simple items

Simple items are items without an associated value. You will find such items in menus or dialog boxes for example, such as in:

```
info:The file already exists, do you want to replace it? Yes no cancel T
```

This dialog box includes 4 simple items which are the text: “This file already exists, do you want to replace it ?” as well as the three buttons : “yes”, “no” and “cancel”.

In order to activate one of those buttons, you can use, either the cursor routing keys, or the 9A keys combination (after having put the focus on the button) or by pressing centrally on RJ (after putting the focus on the correct button).

Note: Texts cannot be activated, pressing on one of those keys while being on text will not do anything.

3.3 Items with an associated value

When a value needs to be associated with an item, it will appear after the (>) sign.

Examples of such items are edit boxes, dialog boxes that are not editable, lists and trees structure.

3.3.1 Edit Box

The value included in an Edit Box can be changed by the user. You will find several examples of edit boxes while using **ESYS**. One example of such edit boxes occurs when typing in a file name:

```
file>mydocument.txt
```

You can change the value or the text inside an edit box when the cursor is situated in the editable zone (between the > sign and the end of the value).

Click on one of the cursor keys directly above the value editing zone in order to edit it. This action will turn the > sign into a < sign. The < sign means that you are currently editing the value in the edit box. You can then type in whichever value / text that is appropriate.

If you want to select the whole text in an edit box (for example to cancel it at once), you will need to click on a cursor key situated above the name of the edit box (“file” in this sample).

The 9A keys combination will enable you, when used in the context of an edit box, to execute a specific action.

If you are in the “File Name” edit box, which is included in the “Save As” dialog box, then using the 9A keys combination will make you save the file.

If you are on other edit boxes, using the 9A keys will help you to access the edit box or to exit the edit box. (for example in the case of the clock settings).

3.3.2 Information boxes

These dialogs are used to give information that is not editable, such as the battery tension. No action is possible on such items.

```
voltage>3.92
```

3.3.3 Lists

Lists will enable you to choose a value in a list of different possible values: for example, you will use a list when selecting the month of the current time.

```
month>january
```

In order to select an item in a list, you will first need to put the focus on the item (make sure that dots7 and8 are blinking on the first letter of the item).

If you want to go down on the list, use the down position of the RJ. Use the up position of the RJ to go up one item in the list.

You can type down or up arrow by using Bramigraph (standard keyboard emulation) on the Braille Keyboard to navigate lists as well.

3.3.4 Trees structures

Trees are used to display the structure of folders and files on the mini-SD card.

File names are displayed as follows: the item name (which is before the > sign) is the name of the folder in which you are. The item value (which is after the > sign) is the content of the folder. The value can either be another folder (in which case the first letter of the value will be a d) or a file (in which case the first letter will be an f).

If you click (with routine cursor keys, 9A keys or joystick) on the focused value, will either display the tree position of the folder or open the file.

If you want to move back up one level in the tree structure, you can either click on the tree name, using the cursor routing keys, the Backspace command (when the focus is on the tree name) or the LJ Left + RJ Middle.

3.4 Dialog Boxes

In a dialog box, you will be asked to make choices by pressing on the « OK » « Cancel » « Yes » and « No » buttons. Doing this will then close the dialog box.

A dialog box is considered as a parent-object, and thus may contain infant-objects such as : buttons, texts, edit boxes or trees structure.

3.5 Activating an item

You can activate any item by pressing a cursor routing key just above the item's identifier.

You can activate an item from the Braille keypad by pressing on the 9A keys combination; you will then activate the focused item (the focus represented by blinking dots 7 and 8).

You can activate an item by pressing centrally on the joystick (once again on the focused item).

Also, if you are not currently editing a value in an edit box, you can activate an item by typing the key letter of the item (the one with a raised dot 7).

Activating an item will result in different possibilities, depending on the type of item and its status. For example, in an edit box, activating will make you enter or exit the editable zone.

3.6 Focus

You can change the focus position, item by item, by moving the Right Joystick (RJ) either LEFT or RIGHT.

The focus is displayed by blinking dots 7 and 8 on the first letter of an item ; if the focus is located on the "key letter" of an item, dot 7 will be raised and 8 will be blinking. If you don't make any action for a while (i.e. moving the focus), the blinking will stop after 15 seconds.

Moving the focus will only work on infant-objects. You will need to move the navigation wheels in order to see the parent-object.

Remember that you can activate a focused item by pressing the 9A keys combination (Enter).

3.7 Using the joysticks and the navigation wheels.

On the **esys**, you will find two joysticks on the right and on the left of the Braille line.

These joysticks are labelled LJ for the left joystick and RJ for the right joystick.

They both have different functions.

Left Joystick LJ:

Pressing centrally on the Left Joystick (LJ) will display the application menu. Pressing centrally a second time will display the main menu of the **esys**.

The four directions (UP, DOWN, LEFT, RIGHT) of the Joystick are used in combination with actions on the right joystick or navigation wheels to create shortcuts ; for example, by using the LEFT direction on the LJ and pushing on of the wheels towards the left, you will go back to the beginning of a line.

Right Joystick LJ:

Pressing centrally on the Right Joystick (RJ) will allow you to take an action on a focused item.

Its four directions keys will allow you to move the focus accordingly, pretty much like the four arrow keys on a computer keyboard or the navigation joystick of a mobile phone.

Navigation wheels M:

When the wheel is moved towards the right, the Braille display will move to the next 12 / 40 characters.

When it is moved to the left, the Braille display will move to the previous 12 / 40 characters.

3.8 esys shortcuts

esys Shortcut	Description
<RJ UP>	On a tree or list : previous item
<RJ DOWN>	On a tree or list : next item
<RJ RIGHT>	Move focus to next item When editing an edit box field : move cursor right
<RJ LEFT>	Move focus to previous item When editing an edit box field : move cursor left
<RJ MIDDLE>	Activate a focused item On a tree : show a folder's content
<M RIGHT>	Move Braille display forward
<M LEFT>	Move Braille display backwards
<LJ LEFT + M LEFT>	Put Braille display on the beginning of a line
<LJ LEFT> + <RJ Middle>	When on a tree : Move up one folder

4 APPLICATIONS

4.1 USB Application

4.1.1 Introduction

This application will enable you to use your **esys** as a PC input/output interface.

You will need to connect the USB cable contained in the box of the **esys** and to launch the screen reader on the PC.

Once the application is started you will see on your Braille display one of the following messages : “usb cable connected” or “usb cable disconnected”. If connected, any information read by the PC will be displayed on the Braille display.

Note : **esys** will automatically switch on when connected to a PC via USB. In order to switch it off (that is to put it to SLEEP mode), you will need to unplug the USB cable.

4.1.2 Settings with JawsTM

Connect **esys** to the PC via USB cable; in JAWS, go to Braille Options and select **esys** as your default unit on USB. Put your **esys** in USB mode then start up Jaws.

When Jaws is on USB mode, it is possible to unplug then plug back the cable without having to restart JAWS.

4.2 Bluetooth Connection

4.2.1 Introduction

Using this application will allow you to use the Bluetooth interface of **esys**. It will display the following text : “activation” or “Bluetooth activation...”, then will display the status of your Bluetooth connection in one of the following ways.

Bluetooth deactivated	Bluetooth is not activated.
Bluetooth disconnected	The Bluetooth interface is activated and other Bluetooth devices can look for it.
Bluetooth connected	The Bluetooth interface is activated and linked with another

Bluetooth device.

4.2.2 Menu

On/Off

This will enable you to switch on or off the Bluetooth connexion on your **esys**.

When you switch on your **esys**, the Bluetooth Mode is off (this is done to save power). As soon as you go into the Bluetooth application, the Bluetooth connexion will become enabled. As a consequence, you will mostly be using this menu item in order to disable Bluetooth.

Identifier

This functionality opens a sub menu allowing you to change the name and PIN code on the Bluetooth connector of the **esys**.

4.2.3 Identifier Menu

name>esys-xxx

This edit box allows you to give a name to the Bluetooth interface of the **esys**. This is the name by which the **esys** will be identified as a Bluetooth device and which will appear on your mobile phone or your PC.

“esys-” will always remain in the name, since this is the tag that enables phone screen readers to identify **esys** as a Braille Device.

In case you decide to change this name, you will need to synchronise again with the mobile phone.

pin>0000

This dialog box enables you to change the personal pin code which you will need to know when connecting to your PC or mobile phone.

Ok

This button allows you to save the newly typed in PIN code numbers.

Cancel

This button will exit the menu, ignoring any changes you would have made.

Restore Factory Settings

This button will restore the original values of the Bluetooth interface. You will need to confirm wanting to do this by pressing on the yes button.

4.2.4 **esys** can be connected to the PC via Bluetooth

Settings and actions on your **esys**:

Select the Bluetooth mode, and then enter the Bluetooth menu by pressing centrally on the LJ. Note down the name of the Bluetooth connexion and the associated PIN code by following the steps described in section “Identifier Menu”.

Settings and actions on your PC:

With the help of the Bluetooth toolbox, execute a search of devices; you should find the **esys** as a Bluetooth device; you then have to synchronise your PC and **esys**, using the COM port number provided to you.

Then Adjust the JAWS settings (options menu, Braille) so that the default Braille device is set to **esys**, with the COM port number used to synchronise and «9600,n,8,1» as settings.

Start Jaws.

The Jaws.ini file (in the folder C:\Program Files\Freedom Scientific\JAWS\7.10) should then include an x in the Braille line as follows : Braille1Port=COMx :9600,e,8,1.

```
[BrailleDisplays]
```

```
Braille1Name=ESYS
```

```
Braille1LongName=ESYS
```

```
Braille1Driver=esysiris
```

```
Braille1Port=COMx :9600,e,8,1
```

As long as this is configured on your PC, all you will need to use the Bluetooth connexion will be to place the **esys** in Bluetooth mode and start up jaws in order for the two to communicate together. In such cases, you may switch on and off the **esys** without having to reboot Jaws.

4.2.5 Using **esys** with your mobile phone.

You can use the Bluetooth connexion of the **esys** to connect it to your mobile phone; this will work with Symbian Phones, equipped with Talks or Mobile Speak.

Mobile Speak integrate the driver into software release (3.25 and higher), you simply need to select **esys** from Mobile Speak menu.

Talk doesn't integrate the driver. You will need to install a specific driver following steps below.

Installing the **esys** driver on your mobile phone with Talks.

In order to do this, you will need to have installed on a computer the PC Nokia Suite Software (which is normally given to you with your phone) as well as the Esys60.sis and Esys60_3rd.sisx file which you will find on the CD that is shipped with your **esys**. Depending on your phone, double click on one of the **esys** files (see Appendixes for a list of supported mobile phones). It is recommended that you chose to install the driver on the external memory card of the phone; you will have to go through a series of dialog boxes to finish the installation procedure.

In case PC Nokia Suite is not installed on your computer, you can right click on one of the **esys** files and send to Bluetooth and finally chose your phone. In this case, the driver will be sent to your phone's In Box. You will then have to open that message on your phone and follow the installation procedure.

Once the installation is completed, you need to go in the Braille Settings of Talks and chose the appropriate Braille table language file.

Adjust settings on **esys**:

Chose the « Bluetooth » mode on **esys**; you will go into the Bluetooth menu (by clicking on LJ); then activate the “identifier” menu and note the name of the adapter and the PIN Code number. Then go back to the main menu and select Bluetooth Mode again.

Adjust settings on the phone:

Synchronise your **esys** with the mobile phone; to do that, you need to go in the Bluetooth menu of your phone and ask it to Add a Device; switch on the Bluetooth connexion on your phone. In the list of devices that you will see, you should have the **esys** identifier you noted earlier; select it and type in your PIN code (PIN Code is 0000 by default).

You can now use your **esys** in conjunction with your phone. If you want to toggle between “No Braille” and “Braille **esys**”, you can use the shortcut [Talks]+[pick up]. You can also do this in the TALKS Menu configuration.

4.3 Taking notes on your esys (notepad application)

4.3.1 Foreword

The note taking application of your **esys** will enable you to easily type text; there is one limitation to how you type in text; you can only type paragraphs up to 6Kb of length ; you

will need to type in ENTER (thus creating a new paragraph) in order to continue typing. Similarly, if you open a text on you **esys** which contains paragraphs of more than 6Kb, additional paragraphs will be created to respect this 6Kb limitation.

In order to use the notepad, you will need to have a mini SD memory card in the card slot. Temporary files will be created on the mini-SD card as you edit your document ; as long as you do not save your document, additional temporary files will be created ; we recommend that you save your document frequently enough so that the creation of those temporary files does not end up slowing down your system.

esys includes a data retrieval program that will allow you to retrieve the data of a document even if the mini-SD Card has been taken away or the **esys** has been rebooted. You will only loose the information that was modified and not saved in the paragraph, not the document. However you should only retrieve the mini-SD Card after the file has been closed (by using the File Menu and Close).

4.3.2 File Menu

New (Alt f; n / Ctrl n)

This function will close any open document and start a new document which you can immediately edit.

Open (Alt f; o / Ctrl o)

This function opens a dialog box with a tree list of all available files; the dialog box includes two buttons to accept or cancel. If you were on an opened document, you will be asked to save that document.

Note: you can accept to open a file by activating while on the tree name.

Read (Alt f; r)

This function works like the « Open » function, except that you cannot edit the text (the cursor remains invisible); this read mode is useful for large documents, as all navigating functions will have their speed increased significantly.

Close (Alt f; c / Ctrl F4)

This function will close any opened document. You will then access a new document, which you can edit.

Save (Alt f; s /Ctrl s)

This function enables you to save any modifications you have made in a document. This will save the document under its current name; if you have not yet given the document a name, you will be asked to do so.

Save As (Alt f; a)

This function will let you save the document that is currently open in a given file and with a given name.

In its basic use, when the dialog box opens, you will be in an edit box and you can type the file name. Just type in the name you wish and then press ENTER (9A keys of the Braille Keyboard). The file will then be saved under the current folder.

If you want to save it under a different folder, you will first need to choose in which folder you would like to save the document. To do this, put the focus on the tree name and choose a folder by looking at the tree; then go back to edit mode and type in your file name.

File Manager (Alt f; m)

With this function, you can:

Create a new folder,

Cancel a folder or a file,

Re-name a file or folder.

To do this, first select a file or folder, then activate the button of the function you want to use.

For a new folder, type in a new name and ENTER.

To delete a folder, select the folder and confirm the action by pressing ENTER.

To re-name, type in the new name of the folder and accept the changes.

4.3.3 Edit Menu

Find (Alt e; f / Ctrl f)

This function allows you to search backwards or forwards for a letter-sequence, starting from the cursor location.

To do this, type in the letter-sequence (for ex: a word) and use the button "Next". By accepting, you will then start a search towards the end of the document.

Find Next (Alt e; n / F3)

This will trigger a new search (with the same word) towards the end of the document.

Find Previous (Alt e; p / Shift F3)

This will trigger a search backwards to the previous occurrence of the word.

Insert Tag (Alt e; t / Ctrl F2)

This functions marks the line of the document at which the cursor is located. This will enable you to travel back to this line by using the “Go to Tag” function, even after you have closed and re-opened the document. The tag is kept in a hidden file on the SD card.

Go To Tag (Alt e; g / F2)

This will allow you to go straight to the line where you have left a tag.

4.3.4 Using the Braille Keyboard.

The Braille Keyboard is used to type in text in the notepad application. Special functions called Bramigraph, reproduce the standard keyboard keystrokes and can be used to execute the following commands.

Braille Combination	Braille function	Command
4A	Up	Cursor goes upwards
6A	Down	Cursor goes downwards
5A	Right	Cursor goes right
2A	Left	Cursor goes left
123A	Home	Cursor goes beginning of line
456A	End	Cursor goes end of line
78A, 123A	Ctrl + home	Cursor goes beginning of document
78A, 456A	Ctrl + end	Cursor goes end of document
13A	Page up	Cursor goes 20 lines upwards
46A	Page down	Cursor goes 20 lines downwards
9A	Enter	Carriage return
36A	Delete	Delete the character on cursor right side
2356A	Delete	Delete the character on cursor right side

9	Backspace	Delete the character on cursor left side
35A	Insertion	Type in insertion/substitution
129	F2	Go to tag
78A, 129	Ctrl + F2	Tag
149	F3	Find next
1259	F8	Lock selection mode
1245A	Escape	Unlock selection mode

4.3.5 Specific Shortcuts

ESYS	Description
<JR Up>	Cursor on previous paragraph
<JR Down>	Cursor on next paragraph
<JR Right>	Cursor right
<JR Left>	Cursor left
<M Right>	Braille line ahead
<M Left>	Braille line backwards
<JL Left> + <JR Up>	Cursor at the beginning of the document (Ctrl+Home)
<JL Left> + <JR Down>	Cursor at the end of the document (Ctrl+End)
<JL Left> + <JR Right>	Cursor at the end of the line (End)
<JL Left> + <JR Left>	Cursor at the beginning of the line (Home)
<JL Left> + <M Right>	Cursor at the end of the document (Ctrl+End)
<JL Left> + <M Left>	Cursor at the beginning of the document (Ctrl+Home)
<JL Right> + <JR Haut>	Tag
<JL Right> + <JR Down>	Go to tag
<JL Right> + <JR Right>	
<JL Right> + <JR Left>	
<JL Right> + <M Right>	Cursor 20 lines down
<JL Right> + M Left>	Cursor 20 lines up

<JL Up> + <JR Up>	Open find dialog box
<JL Up> + <JR down>	
<JL Up> + <JR Right >	Find next
<JL Up> + <JR Left >	Find previous

4.4 Alarm Clock

4.4.1 Foreword

esys includes a clock and a ring tone. This will allow you to program an alarm at a given time for each day of the week.

This application looks like a line including the date, the time and a button showing you whether or not the alarm is switched on.

The displayed time is refreshed every second. When the alarm is triggered, it will ring for 30 seconds (**esys** will automatically switch on if it was switched off).

For example, a typical display is:

```
12h05m28s Saturday 30 august 2008 Alarm on (07H30H00 Monday Tuesday Saturday) T
```

4.4.2 Menu

The Alarm clock menu allows you to set the time, date and alarm.

```
ack:set'alarm set'time set'date T
```

4.4.3 Set Alarm Menu

Setting the alarm time is done by changing the following settings :

```
alm:hour>00 minute>00 second>00 status>inactive monday>yes tuesday>yes ...
sunday>yes ok cancel T
```

You will need to press OK to accept the new settings.

4.4.4 Set Time Menu

Setting the time is done by changing the following settings:

```
stm:hour>12 minute>05 second>28 ok cancel T
```

You will need to press OK to accept the new settings.

4.4.5 Set Date Menu

Setting the date is done by changing the following settings:

sdt:day>30 month>september year>2008 ok cancel T

You will need to press OK to accept the new settings.

Please note that if the battery of the **esys** is totally discharged, then the alarm clock will re-initialise to January 1st, 2007, 12:00:00.

4.5 Calculator

4.5.1 Introduction

With calculator you will allowed to execute simple arithmetical function as addition, subtraction, multiplication, division. You will also have available: percent, square root, and currency conversion. The calculator has the four memory functions.

Numbers get the following format: 8 positions before the comma, 2 position after.

4.5.2 Using Braille keyboard

You can use the calculator through menus or by pressing keystrokes on Braille keyboard. To calculate your expression, press 9A.

You can use both standard Braille (language dependent) and mathematical Braille. See the following table for combination.

Operator	Standard Braille	Mathematical Braille
Decimal separator	. or ,	3 or 6
Addition	+	235
Subtraction	-	36
Multiplication	* or x	236
Division	/	256
Equal	=	2356
Square root		345
Percentage	%	

Additional functions with Braille keyboard:

Backspace : partial deleting.

Space or Delete: complete deleting.

Enter : equal.

4.5.3 Operators Menu

This menu accedes to eight different functions. You will notice the key—letter underlined by dot 7:

opr:equal addition subtraction, multiplication division percentage square
square'root T

4.5.4 Memory Menu

Through this memory you will acced to four standard memory functions. You will notice the key-letter underlined by dot 7:

mem:memorize recall add'to'memory sub'to'memory T

4.5.5 Currency Menu

In this menu you will find two conversion functions. Type in the desired value then activate the appropriate function. You will notice the key-letter underlined by dot 7:

cur :currency'to'euro euroto'currency store'currency'constant
default'currency'constant T

To change currency constant, type in the new value then activate « store currency constant ».

By activating « default currency constant » you will go back to default USD-euro rate of change.

4.5.6 Specific shourtcuts

Keyboard shortcuts:

esys actions	Description
<JR Up>	Addition
<JR Down>	Subtraction
<JR Right>	Division

<JR Left>	Multiplication
<JL Left > + <JR Up>	Pour cent
<JL Left > + <JR Down >	
<JL Left > + <JR Right >	Square root
<JL Left > + <JR Gauche>	Square
<JL Right > + <JR Up>	Add to memory
<JL Right > + <JR Down >	Sub to memory
<JL Right > + <JR Right >	Memorize
<JL Right > + <JR Left >	Recall memory
<JL Up> + <JR Up>	Currency -> euro
<JL Up> + <JR Down >	euro -> currency
<JL Up> + <JR Right >	-
<JL Up> + <JR Left >	-

4.6 Customize your *esys* (Tools application)

With tools application you will be able to customize some features of your **esys** and to visualize some useful information concerning your device.

Once you activate the application from main menu, **esys** will display the version number. Call menu bar to activate the desired function (click once on left joystick).

4.6.1 Power Menu

power>external/usb/battery

This list box shows you the power source. Mainly you must recharge your **esys** through its power supply, but you can also do it via USB cable.

charge>precharge/normal/ended/halt/inactive

This list box shows you the internal power supply status. If your **esys** is not plugged, the internal power supply results “inactive”. Once you plug your **esys**, the power supply will

switch to “precharge” status (100mA if battery level is lower than 3 Volts) then it switches to “charge” to 500mA. When the battery is fully recharged, the power supply will display “ended”. If something wrong occurs during the charging period, you will be displayed with an “halt” status for your power supply.

voltage>3.70

With this non edit dialog box you will be warned about the battery level. Borderline values are 4,2 Volts (fully charged) and 3,3Volts (before security break down). Middle operating value is set to 3,7 Volts.

When the battery reaches 3,5 Volts, you will be warned by a message asking you to plug your **esys**. If you reach 3.3Volts, **esys** will automatically turn off to safe battery life.

Warning: To safe battery life, don't expose **esys** to sun radiation or hot fonts ..

4.6.2 Test Menu

Braille line

Using test menu, your **esys** will enter a particular operating method allowing you to test Braille line: your Braille line will change its status each second.

Three different test functions are available : 1 dot movement, 1 line movement, 1 culomn movement.

Press 9A to pause the test ; to change test function, press A ; press 9 to move to next step.

Press once on JL Middle or on M middle to go back to main menu..

Note : Braille line test will automatically start once you reset your **esys**.

Keyboard

Using test menu, your **esys** will enter a particular operating method allowing you to test your Braille keyboard.

Press once a cursor routing to rise up dots 1245 of correspondent Braille cell ; click twice to rise up dots 3678; press and hold to rise up all dots.

To exit test mode and go back to main menu, click once on left joystick or M middle.

4.6.3 Update Menu

Using this command you will be able to load into your **esys** the last version of the software. Prepare a mini SD card and copy the file Esys.hex which you will download from eurobraille web site. Insert the mini SD card into your **esys**. Click once on “Update” to start the process.

esys will keep you informed about the update process :

xx% updated

Once the update is done, **esys** will reset and start in test mode. Click once on JL to go back to main menu.

We advise you to plug **esys** before updating.

4.6.4 About Menu

Use this menu to get important information concerning your **esys**.

esys

Software version and serial number. Click on Ok button to close the dialog box.

eurobraille

eurobraille address, phone number, fax number, email address and web site. Click on Ok button to close the dialog box.

4.7 *Disable Braille keyboard Menu*

Using this menu you will disable the Braille keyboard. You will be asked for which application you desire to enable or disable: USB, Bluetooth or internal function.

If you reset your **esys**, the Braille keyboard will be enabled for the three modes.

5 APPENDIX

5.1 APPENDIX 1 : ENGLISH BRAILLE TABLE

ANSI	BRAILLE	CAR.	RAPRESENTATION
0	478		null
1	178		start of heading
2	1278		start of text
3	1478		end of text
4	14578		end of transmission
5	1578		enquiry
6	12478		acknowledge
7	124578		bell
8	12578		backspace
9	2478		horizontal tabulation
10	24578		line feed
11	1378		vertical tabulation
12	12378		form feed
13	13478		carriage return
14	134578		shift out
15	13578		shift in
16	123478		data link escape
17	1234578		device control 1
18	123578		device control 2
19	23478		device control 3
20	234578		device control 4

21	13678		negative acknowledge
22	123678		synchronous idle
23	245678		end of transmission block
24	134678		cancel
25	1345678		end of medium
26	135678		substitute
27	24678		escape
28	125678		file separator
29	1245678		group separator
30	4578		record separator
31	45678		unit separator
32			space
33	2346	!	exclamation mark
34	5	"	quotation mark
35	3456	#	number sign
36	1246	\$	dollar sign
37	146	%	percent sign
38	12346	&	ampersand
39	3	'	apostrophe
40	12356	(left parenthesis
41	23456)	right parenthesis
42	16	*	asterisk
43	346	+	plus sign
44	6	,	comma

45	36	-	hyphen-minus
46	46	.	full stop
47	34	/	slash
48	356	0	digit zero
49	2	1	digit one
50	23	2	digit two
51	25	3	digit three
52	256	4	digit four
53	26	5	digit five
54	235	6	digit six
55	2356	7	digit seven
56	236	8	digit eight
57	35	9	digit nine
58	156	:	colon
59	56	;	semicolon
60	126	<	less-than sign
61	123456	=	equals sign
62	345	>	greater-than sign
63	1456	?	question mark
64	47	@	commercial at
65	17	A	a capital letter
66	127	B	b capital letter
67	147	C	c capital letter
68	1457	D	c068= d capital letter

69	157	E	e capital letter
70	1247	F	f capital letter
71	12457	G	g capital letter
72	1257	H	h capital letter
73	247	I	i capital letter
74	2457	J	j capital letter
75	137	K	k capital letter
76	1237	L	l capital letter
77	1347	M	m capital letter
78	13457	N	n capital letter
79	1357	O	o capital letter
80	12347	P	p capital letter
81	123457	Q	q capital letter
82	12357	R	r capital letter
83	2347	S	s capital letter
84	23457	T	t capital letter
85	1367	U	u capital letter
86	12367	V	v capital letter
87	24567	W	w capital letter
88	13467	X	x capital letter
89	134567	Y	y capital letter
90	13567	Z	z capital letter
91	2467	[left square bracket
92	12567	\	Back slash

93	124567]	right square bracket
94	457	^	circumflex accent
95	4567	_	low line
96	4	`	grave accent
97	1	a	a small letter
98	12	b	b small letter
99	14	c	c small letter
100	145	d	d small letter
101	15	e	e small letter
102	124	f	f small letter
103	1245	g	g small letter
104	125	h	h small letter
105	24	i	i small letter
106	245	j	j small letter
107	13	k	k small letter
108	123	l	l small letter
109	134	m	m small letter
110	1345	n	n small letter
111	135	o	o small letter
112	1234	p	p small letter
113	12345	q	q small letter
114	1235	r	r small letter
115	234	s	s small letter
116	2345	t	t small letter

117	136	u	u small letter
118	1236	v	v small letter
119	2456	w	w small letter
120	1346	x	x small letter
121	13456	y	y small letter
122	1356	z	z small letter
123	246	{	left curly bracket
124	1256		vertical line
125	12456	}	right curly bracket
126	45	~	tilde
127	456	␣	delete
128	48	€	euro sign
129	18	□	undefined
130	128	‚	single low-9 quotation mark
131	148	<i>f</i>	f with hook small letter
132	1458	„	double low-9 quotation mark
133	158	...	horizontal ellipsis
134	1248	†	dagger
135	12458	‡	double dagger
136	1258	^	modifier letter circumflex accent
137	248	‰	per mille sign
138	2458	Š	s with caron capital letter
139	138	◀	single left-pointing angle quotation mark

140	1238	Œ	oe capital ligature
141	1348		undefined
142	13458	Ž	z with caron capital letter
143	1358		undefined
144	12348		undefined
145	123458	‘	left single quotation mark
146	12358	’	right single quotation mark
147	2348	“	left double quotation mark
148	23458	”	right double quotation mark
149	1368	•	bullet
150	12368	–	en dash
151	24568	—	em dash
152	13468	~	small tilde
153	134568	™	trade mark sign
154	13568	š	s with caron small letter
155	2468	›	single right-pointing quotation mark
156	12568	œ	oe small ligature
157	124568		undefined
158	458	ž	z with caron small letter
159	4568	Ÿ	y with dieresis capital letter
160	7		no-break space
161	23467	¡	inverted exclamation mark
162	57	¢	cent sign
163	34567	£	pound sign

164	12467	¤	currency sign
165	1467	¥	yen sign
166	123467	¡	broken bar
167	37	§	section sign
168	123567	¨	dieresis
169	234567	©	copyright sign
170	167	^a	feminine ordinal indicator
171	3467	«	left-pointing double angle quotation mark
172	67	¬	not sign
173	367		soft hyphen
174	467	®	registered sign
175	347	—	macron
176	3567	°	degree sign
177	27	±	plus-minus sign
178	237	²	superscript two
179	257	³	superscript three
180	2567	´	acute accent
181	267	µ	micro sign
182	2357	¶	pilcrow sign
183	23567	·	middle dot
184	2367	¸	cedilla
185	357	¹	superscript one
186	1567	º	masculine ordinal indicator

187	567	»	right-pointing double angle quotation mark
188	1267	¼	vulgar fraction one quarter
189	1234567	½	vulgar fraction one half
190	3457	¾	vulgar fraction three quarters
191	14567	¿	inverted question mark
192	78	À	a with grave capital letter
193	234678	Á	a with acute capital letter
194	578	Â	a with circumflex capital letter
195	345678	Ã	a with tilde capital letter
196	124678	Ä	a with dieresis capital letter
197	14678	Å	a with ring above capital letter
198	1234678	Æ	ae capital letter
199	378	Ç	c with cedilla capital letter
200	1235678	È	e with grave capital letter
201	2345678	É	e with acute capital letter
202	1678	Ê	e with circumflex capital letter
203	34678	Ë	e with dieresis capital letter
204	678	Ì	i with grave capital letter
205	3678	Í	i with acute capital letter
206	4678	Î	i with circumflex capital letter
207	3478	Ï	i with dieresis capital letter
208	35678	Ð	eth capital letter
209	278	Ñ	n with tilde capital letter

210	2378	Ò	o with grave capital letter
211	2578	Ó	o with acute capital letter
212	25678	Ô	o with circumflex capital letter
213	2678	Õ	o with tilde capital letter
214	23578	Ö	o with tréma capital letter
215	235678	×	multiplication sign
216	23678	Ø	o with stroke capital letter
217	3578	Û	u with grave capital letter
218	15678	Ú	u with acute capital letter
219	5678	Û	u with circumflex capital letter
220	12678	Ü	u with tréma capital letter
221	12345678	Ý	y with acute capital letter
222	34578	þ	thorn capital letter
223	145678	ß	sharp s small letter
224	8	à	a with grave small letter
225	23468	á	a with aigu small letter
226	58	â	a with circumflex small letter
227	34568	ã	a with tilde small letter
228	12468	ä	a with tréma small letter
229	1468	å	a with ring above small letter
230	123468	æ	ae small letter
231	38	ç	c with cedilla small letter
232	123568	è	e with grave small letter
233	234568	é	e with acute small letter

234	168	ê	e with circumflex small letter
235	3468	ë	e with dieresis small letter
236	68	ì	i with grave small letter
237	368	í	i with acute small letter
238	468	î	i with circumflex small letter
239	348	ï	i with dieresis small letter
240	3568	ð	eth small letter
241	28	ñ	n with tilde small letter
242	238	ò	o with grave small letter
243	258	ó	o with acute small letter
244	2568	ô	o with circumflex small letter
245	268	õ	o with tilde small letter
246	2358	ö	o with dieresis small letter
247	23568	÷	division sign
248	2368	ø	o with stroke small letter
249	358	ù	u with grave small letter
250	1568	ú	u with acute small letter
251	568	û	u with circumflex small letter
252	1268	ü	u with dieresis small letter
253	1234568	ý	y with acute small letter
254	3458	þ	thorn small letter
255	14568	ÿ	y with dieresis small letter

5.2 APPENDIX 2 : BRAILLE FUNCTIONS - BRAMIGRAPH

Numeric keypad

BRAILLE	FONCTION
123A	Home
4A	Up
13A	Page up
2A	Left
25A	Num.5
5A	Right
456A	End
6A	Down
46A	Page down
35A	Ins
36A	Del
345A	Enter
236A	Backspace
1245A	Escape

Function keyboard

BRAILLE	FONCTION
19	F1
129	F2
149	F3
1459	F4
159	F5

1249	F6
12459	F7
1259	F8
249	F9
2459	F10
139	F11
1239	F12

Navigation keyboard

BRAILLE	FONCTION
23A	Home
1A	Up
12A	Page up
24A	Left
15A	Right
56A	End
3A	Down
45A	Page down
26A	Ins
2356A	Del
246A	Enter
12349	Start
569	Context
256A	Tab
235A	Shift Tab

14A	Break
8A	Alt
78A	Ctrl
79	Caps lock
89	Caps unlock
1245A	Escape
9A	Enter
9	Backspace
A	Space

5.3 APPENDIX 3 : TALKS FUNCTIONS

esys keystroke are noted <control name> ; phone keys are named [key name] like in Talks user guide.

<JL Up> : we will use this expression when we want to move the left joystick upward.

<ML> : it represents the left wheel.

<MD> : it represents the right wheel.

<MCL> and <MCR> central wheels left and right (only for **esys40**).

When you need to activate simultaneously two different controls on your **esys**, we will use the «+» symbol: <JL Right> + <JR Up>.

When you need to activate two consecutive controls on your **esys**, we will use the «,» symbol.

esys	Phone keys
<JL Up> or <Braille 29>	[Talks]
<JL Down> or <Braille 59>	[Talks] hold.
<JL Up>, <JL Up>	[Edit]
<JL Left>	[Menu]
<JL Right> + <JR Up>	[Call]
<JL Right > + <JR Down>	[Exit]
<JL Right > + <JR Left>	[*]
<JL Right > + <JR Right>	[#]
<JL Right > + <JR Middle>	Not in use
Not in use	[Power]

<JR Up>	[Up]
<JR Down>	[Down]
<JR Left>	[Left]
<JR Right>	[Right]
<JR Middle>	[Select]
<ML Middle>	[Key 1]
<MR Middle>	[Key 2]
<ML Left> or <MR Left>	Previous Braille line.
<ML Right> or <MR Right>	Next Braille line.
<Braille 16>	[1]
<Braille 126>	[2]
<Braille 146>	[3]
<Braille 1456>	[4]
<Braille 156>	[5]
<Braille 1246>	[6]
<Braille 12456>	[7]
<Braille 1256>	[8]
<Braille 246>	[9]
<Braille 3456>	[0]
<Braille 9>	[Clear]

5.4 APPENDIX 4 : MOBILE SPEAK FUNCTIONS

<i>Command</i>	<i>Action</i>
Dial 1	Braille dots according to selected translation table
Dial 2	Braille dots according to selected translation table
Dial 3	Braille dots according to selected translation table
Dial 4	Braille dots according to selected translation table
Dial 5	Braille dots according to selected translation table
Dial 6	Braille dots according to selected translation table
Dial 7	Braille dots according to selected translation table
Dial 8	Braille dots according to selected translation table
Dial 9	Braille dots according to selected translation table
Dial 0	Braille dots according to selected translation table
Dial *	Braille dots according to selected translation table
Dial #	Braille dots according to selected translation table
Enter (Accept)	Space + Backspace, Joystick Center, Cursor-Routing in Braille Cursor mode
Insert space	Space
Insert Paragraph Marker	Space + dots46
Braille Backspace	Backspace
Clear/Delete	Space + dots45
Braille Pan Left	Right Up
Braille Pan Right	Right Down, Space + dot6
Previous Character/Grid Item/Tab Sheet	Joystick Left, Space + dot3
Next Character/Grid Item/Tab Sheet	Joystick Right, Space + dot6
Previous Line/List Item/Menu Item	Joystick Up, Left Up, Space + dot1
Next Line/List Item/Menu Item	Joystick Down, Left Down, Space + Ddot4
Previous Word	Left Center + Joystick Left, Space + dot2
Next Word	Left Center + Joystick Right, Space + dot5
Left Softkey	Space + dot7
Right Softkey	Space + dot8
Dial/Send	Backspace + dot7

Hang-Up/End Call	Backspace + dot8
Applications Menu	Left Center + Right Center, Space + dots134(m)
List of Open Applications	Space + dots135(o)
Quick List	Space + dots12345(q)
Read Softkeys	Space + dots78
Read Status Information	Space + dots234(s)
Open Configure Mobile Speak screen	Space + dots14(c)
Change User Profile	Space + dots1234(p)
Repeat Last Spoken Text	Space + dots1235(r)
Decrease Volume	Space + dots236
Increase Volume	Space + dots356
Decrease Speed	Space + dots126
Increase Speed	Space + dots345
Change Verbosity Level	Space + dot8 + dots1236(v)
Change Keyboard Echo	Space + dot8 + dots15(e)
Read Date and Time	Space + dots145(d)
Toggle Speech Mute	Backspace + dots136(u)
Interrupt/Stop Speech	Backspace + dots78
Toggle Command Help Mode	Space + dots125(h)
Change Braille Input Grade	Space + dots1245(g)
Toggle Braille Cursor	Space + dots123456

5.5 APPENDIX 5 : JAWS FUNCTIONS

esys keystroke are noted <control name>.

<JL Up> : we will use this expression when we want to move the left joystick upward.

<ML> : it represents the left wheel.

<MD> : it represents the right wheel.

<MCL> and <MCR> central wheels left and right (only for **esys40**). Considering that the 4 wheels have the same function, we will use the symbol <M> when talking about a navigation wheel.

When you need to activate simultaneously two different controls on your **esys**, we will use the «+» symbol: <JL Right> + <JR Up>.

When you need to activate two consecutive controls on your **esys**, we will use the «,» symbol.

esys	Script description	Script	PROG_Key
<JR Up>	Up arrow key	Simulation clavier	
<JR Down>	Down arrow key	Simulation clavier	
<JR Left>	Left arrow key	Simulation clavier	
<JR Right>	Right arrow key	Simulation clavier	
<JR Middle>	Enter	Simulation clavier	
<M Right>	Braille line ahead	BraillePanRight	BRL_PROG1
<M Left>	Braille line backwards	BraillePanLeft	BRL_PROG2
<M Middle>	Stop speech	StopSpeech	BRL_HOME2
<JL Left> + <JR Up>	Move active cursor with Braille navigation keys	BrailleMovesActive	BRL_STATUS1

<JL Left> + <JR Down>	Braille cursor follows cursor	ActiveMovesBraille active	BRL_STATUS2
<JL Left> + <JR Right>			BRL_STATUS3
<JL Left> + <JR Left>			BRL_STATUS4
<JL Left> + <JR Middle>	Select attribut shown by dots 7,8	BrailleToggleMarking	BRL_STATUS5
<JL Left> + <M Right>	Next line	BrailleNextLine	BRL_STATUS6
<JL Left> + <M Left>	Previous line	BraillePriorLine	BRL_STATUS7
<JL Left> + <M Middle>			BRL_STATUS8
<JL Right> + <JR Up>	Task list	StartJawsTaskList	BRL_NP1
<JL Right> + <JR Down>	Notification zone icons list	ListTaskTrayIcons	BRL_NP2
<JL Right> + <JR Right>	Mouse right click	RightMouseButton	BRL_NP3
<JL Right> + <JR Left>	Mouse left click	LeftMouseButton	BRL_NP4
<JL Right> + <JR Middle>	Mouse left click and hold	LeftMouseButtonLock	BRL_NP5
<JL Right> + <M Right>	Braille line end of window	BrailleBottom	BRL_NP6
<JL Right> + <M Left>	Braille line beginning of window	BrailleTop	BRL_NP7
<JL Right> + <M Middle>	Minimize all	MinimizeAllApps	BRL_NP8
<JL Up> + <JR Up>	Select a link	IE : SelectALink	BRL_KP1

<JL Up> + <JR Down>	Select a frame	IE : SelectAFrame	BRL_KP2
<JL Up> + <JR Left>	Select a heading	SelectAHeading	BRL_KP3
<JL Up> + <JR Right>	Select form field	IE : SelectAFormField	BRL_KP4
<JL Up> + <JR Middle>	Toggle Braille 6/8 dots	BrailleToggle8Dots	BRL_KP5
<JL Up> + <M Left>	End of the document	BottomOfFile	BRL_KP6
<JL Up> + <M Right >	Beginning of the document	TopOfFile	BRL_KP7
<JL Up> + <M Middle>			BRL_KP8
<JL Down> + <JR Up>	Match Jaws cursor to pc cursor	RouteJawsCursorToPc	BRL_KP11
<JL Down> + <JR Down>	Match pc cursor to Jaws cursor	RoutePCCursorToJaws	BRL_KP12
<JL Up> + <JR Left>	Activate pc cursor	PCCursor	BRL_KP13
<JL Up> + <JR Right>	Activate Jaws cursor	JAWSCursor	BRL_KP14
<JL Down> + <JR Middle>	Switch between tree structure, line mode and speech.	BrailleToggleMode	BRL_KP15
<JL Down> + <M Left>			BRL_KP16
<JL Down> + <M Right >			BRL_KP17
<JL Down> + <M Middle >	Delete multiple spaces yes/no	BrailleToggle8PixelsPerSpace	BRL_KP18

5.6 APPENDIX 6 : USING BRAILLE KEYBOARD WITH JAWS

The Braille keyboard of **esys** allow you to completely reproduce a standard computer keyboard. This way you will may activate all Jaws functions made by combination as « Ins + key ».

Please remember to configure your Jaws correctly to be able to use **esys** Braille keyboard. In fact you need to activate Virtual keyboard into keyboard options.

Changing Braille table

Jaws driver will automatically install eurobraille braille table (eurobraille-xx.jbt and eurobraille-xx.kbd).

You will anyway be able to select the table you desire to use simply changing Jaws parameters.