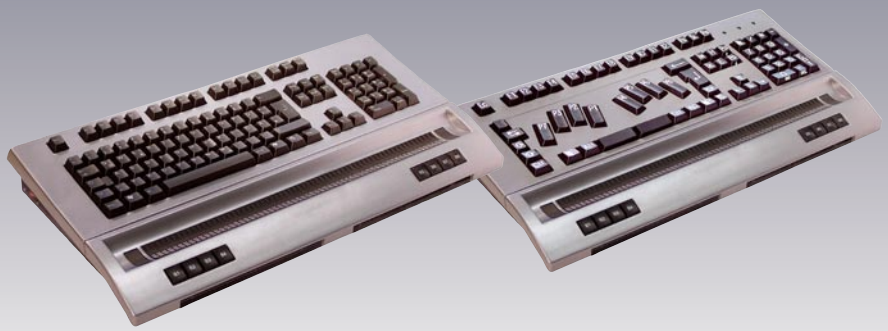
Modular Evolution

The Professional Braille System
with Active Tactile Control (ATC)

Ergonomics meets Functionality

Modular Evolution is designed for the professional blind user in their workplace. Adapted for your needs, Modular Evolution offers the perfect combination for you.



The individual components of the Modular Evolution

Modular Braille Display

The Braille display unit of the Modular Evolution is available with 88 or 64 Braille cells.

This Modular Braille display is the first one to use the revolutionary Active Tactile Control (ATC) technology. ATC opens blind users new and more efficient ways to use a PC. In addition to ATC, the Modular Braille display offers the following control elements:

- 2 navigation keys (L/R),ergonomically placed across the whole width of the Braille display
- 2 Triple Action keys, integrated left and right of the tactile area
- 8 function keys (B1– B4, B5 – B8)
- 88 or 64 cursor routing keys for placing the cursor at each Braille position

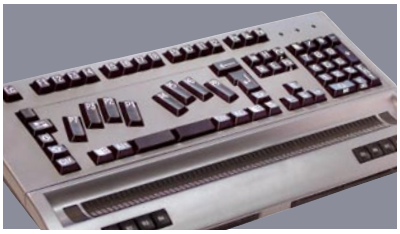
The Modular Braille display offers three additional USB ports. This allows you to directly connect a printer or a scanner. With the internal 4 GB memory, you always have all applications and data available.

Modular Keyboard

The Modular Keyboard of the Modular Evolution is a complete PC keyboard which can be clicked on the Braille display unit. The keyboard has tactile markings for the blind users. The keys are labelled with a high contrast (white on black) and can therefore be easily read by partially sighted users.

Modular Braille Keyboard

With the Modular Braille Keyboard you can enter text in Braille. It also offers complete control of the PC. In addition to the 8 ergonomic Braille entry keys (P1 – P8), the Modular Braille keyboard has a number pad as well as control and function keys.



Modular Number Pad

When clipped on to the Modular Evolution, the number pad offers additional functions.
The 16 keys of the Modular number pad can be individually assigned.
For example, as a telephone operator, you can use the number pad directly for dialling or switchboard functions.

The One-Cable-Solution

All components of the Modular Evolution can be clipped on to the Modular Braille display without the need for any annoying cables. When attached, the components have an electrically and mechanically stable connection.
With just one cable the whole system of the Modular Evolution is connected to the PC via USB. There is no need to have cables all over your desk.

The New Dimension of Braille Reading

Active Tactile Control (ATC)

The patent pending Active Tactile Control (ATC) enables you to control the PC directly with your reading position on the Braille display. This opens up a whole new world of controlling a PC for blind and visually impaired users. With the help of ATC, words or letters for example can be announced by the speech output. ATC even recognizes when the current line has been read completely and automatically scrolls to the next line without the need of pressing the reading keys.

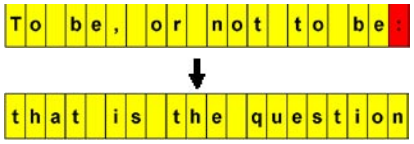
ATC is able to recognize the reading position reliably even if several fingers are on the Braille display.

ATC Assistance Functions

For professional use of a PC, ATC offers several helpful functions, the so-called assistance functions.

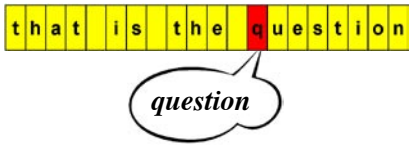
Automatic Scrolling

When you have read the text on the Braille display completely, ATC automatically scrolls to the next position.



Speed Reading

A word is spoken when touching the first letter.



Read the Whole Line

The line will be read completely triggered by a touch on the Braille display.

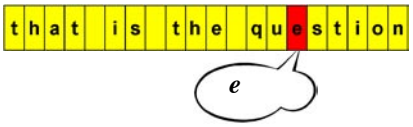
Spelling when Reading Backwards

When reading a Braille character twice, it will be announced.

Interactive Learning with ATC

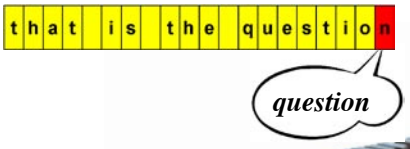
Reading Single Characters

The letter at the reading position will be either announced immediately or with delay.



Read Word at the End

When the word has been read completely, it will be announced. This function is especially handy when learning a foreign language.

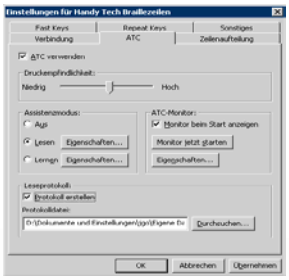


Analysing the Reading Behaviour

ATC allows to monitor the handling of the Modular Evolution. Analyzing the reading behaviour is especially helpful for the teaching environment while learning Braille.

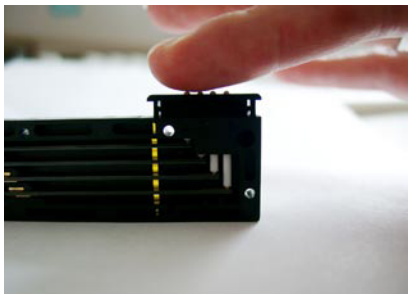
ATC Settings

The different ATC options can be adjusted to your individual needs by using the settings menu.

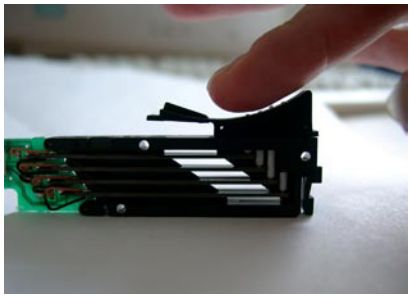


Perfect Ergonomics

Only the Handy Tech Braille cells have the concave and sloped down shape. The tactile surface match perfectly the finger tip when reading.



Flat and not ergonomically



Concave from Handy Tech

Judge for yourself, the advantages right at your fingertips

The Braille output of the Modular Evolution can be read with a natural and relaxed hand position which is especially important for power users.
The cursor routing keys are integrated into the tactile surface, aiding with orientation. The up and down keys are placed where you need them when reading Braille.

Technical Data:

Modular Braille Display 88

- 88 Braille cells
- 684 (88*8) ATC sensors
- 2 navigation keys
- 2 Triple Action keys
- 88 cursor routing keys
- 8 function keys B1 - B8
- 3 USB connections
- 4 GB internal memory
- Dimensions: 64,3 cm x 6,2 cm x 26,5 cm (width x height x depth)
- Weight: 3,5 kg

Modular Braille Display 64

- 64 Braille cells
- 512 (64*8) ATC sensors
- 2 navigation keys
- 2 Triple Action keys
- 64 cursor routing keys
- 8 function keys B1 - B8
- 3 USB connectors
- 4 GB internal memory
- Dimensions: 51,5 cm x 6,2 cm x 26,5 cm (width x height x depth)
- Weight: 2,9 kg

Modular Keyboard

- 105 keys
- Tactile markings
- USB connection
- Dimensions: 51,5 cm x 4,2 cm x 17,3 cm (width x height x depth)

Modular Braille Keyboard

- 8 Braille keys (P1 –P8)
- 2 space keys
- Function keys F1 – F12, Escape key, Numlog, ScrLog, Print
- Ctrl, Shift, Alt, Windows keys
- 6 keys block, cursor keys
- Number pad 17 keys
- Dimensions: 25,0 cm x 4,5 cm x 16,5 cm (width x height x depth)
- Weight: 1,0 kg

Modular Number Pad

- 16 keys B9 – B14, 0 – 9
- Dimensions: 12,7 cm x 4,2 cm x 17,3 cm (width x height x depth)
- Weight: 0,9 kg

Handy Tech

HIMS

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