

Scope of delivery



BrainCentral



Access to App



Quickstart manual



USB-C plug



USB licence stick

Further information:
www.braincentral.meditech.de



Additionally required



Android tablet
 (according to specification)



Headset
 (alternatively: headphones and microphone)



LCD shutter glasses
 for lateral training



Exercise material
 for lateral training



** Cable set
 Connection to external device

Optional



Transport unit
 for the system with accessories
 (preliminary example)



* Audio distributor
 Y-Adapter

Recommended

BrainCentral Service PLUS-Vertrag

- for more information please visit www.bc-plus.meditech.de

Special features

- ↳ Power supply and battery operation
- ↳ Evaluation directly on the tablet
- ↳ Holding device for the tablet - at the device
- ↳ Wireless transmission (tablet <-> device)
- ↳ Connections for
 - ↳ LCD shutter glasses
 - ↳ Trainer unit consisting of microphone and headphones
 - ↳ three client units for headset or microphone-headphone combination*
 - ↳ input for external source **, e.g. CD player


(Version 10-2023 – Changes and errors excepted)

For questions, information and orders we are at your disposal:

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S291-EN – BrainCentral – V1





BrainCentral

the all-rounder for learning support and perception

Learn more about www.braincentral.meditech.de.

The *BrainCentral*: Modular on the way to promoting ...

Learning support has a special role to play in today's society. Speech understanding and processing is an elementary basis of communication between people right up to old age. Therefore, this topic is in the center of attention in the field of support for people of all ages:

- **Children** who are not doing well in school - even despite normal development and intelligence.
- **Adolescents** who have muddled through with compensation in the first years of school, but are lost in a new school or with the start of a foreign language.
- **Adults** who have to ask more questions in meetings and who no longer enjoy going to the movies or the theater.
- **Seniors** for whom the TV isn't loud enough and who can't follow conversations despite perfectly fitted hearing aids. Or need to relearn how to speak, read and write after a stroke.
- **People** with intellectual disabilities who lack the chance to communicate adequately with others.



The combination of device and intuitive *BrainCentral* app for tablet is *MediTECH*'s new generation of testing and training systems:

- Perceptual discrimination test
- Sound discrimination training
- Central audiometer
- Lateral-Trainer modularly combinable.



Perceptual Acuity Test and Training Module

The **WTT** (Perceptual Separation Test) is proven and standardized. Short VKV* words (vowel-consonant-vowel words) are heard alternately on the left and right. The respective middle consonant, which is one



of the eight most frequent, very short so-called plosives, should be identified correctly.

What does this module offer in *BrainCentral*?

- Perceptual discrimination - incl. test explanation for the client - in a child-friendly language and in a version for adult clients
- Button input of the answer on the tablet.
- First test with single words - alternately from left and right. Second test with pairs of words, one of which is heard from the left and one from the right
 - Evaluation display of the first and second test

If a training opportunity can be determined during the WTT, the trainer's module is a good choice. The trainee hears the VKV* word via headphones and enters his response on the tablet.

Very good improvements have already been achieved with the training function.

What does this module offer in *BrainCentral*?

- 2 up to 16 VKV* words can be combined in any way (selection: 400 words)
- Input of the answer on the tablet
- Evaluation and storage of results
- Also with „non-plosives“ and multi-letter sounds, e.g. ‚sh‘, ‚st‘, etc.
- Can also be used as special reading and listening training
- Wide range of settings
- Music and speech can be switched on as aggregators.



* VCV = Vowel Consonant Vowel, e.g. efi, asu, ...

AlphaTrainer: Promoting language and learning

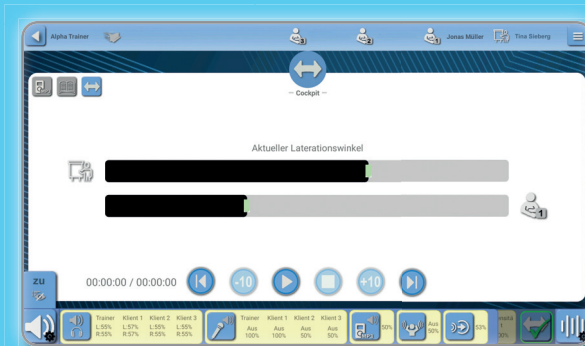
The basic principle is that one's own language, the language of other people, music and noises move back and forth between the ears via headphones. In the process, both hemispheres of the brain are permanently stimulated to communicate with each other. This is the basis for processing and perceiving what is heard.

Areas of application:

- Articulation disorders in speech therapy can be quickly and permanently overcome with lateral training.
- Active promotion of attention and concentration in schoolchildren, but also in stroke patients.
- Treat speech disorders (SES, SEV) as well as certain neurological impairments in a targeted manner.
- From Down syndrome children to autistic children: In many individual cases, lateral training proves time and again to be particularly effective.

What does this module in *BrainCentral* offer?

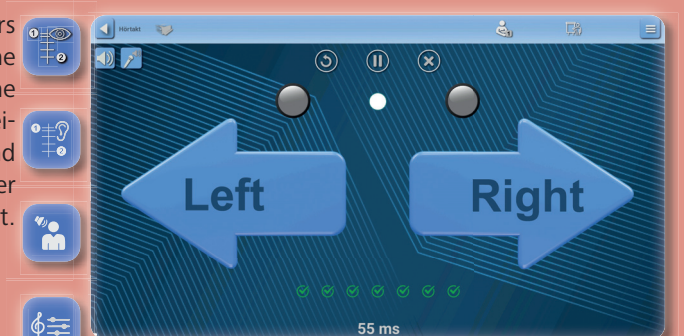
- Wide range of settings for lateralization parameters, training sequence and volume levels
- Intuitive app operation with simple icons
- Audio exercise material integrated in the device
- Many of the textbooks for reading along already included in the device
- Group training with up to three clients simultaneously (individual volume settings)
- Own exercise material can be used in the training



Central audiometer: Testing central hearing

While in peripheral hearing the ears play a decisive role, in central hearing the acoustic information transmitted from the ears to the brain is processed and thus perceived. In order to understand speech acoustically and to be able to locate and perceive sounds, a number of very basic auditory functions are very important. These include:

- visual and auditory processing speed in the brain (= **order threshold**)
- **directional hearing** to locate sounds and speech
- **pitch discrimination** in order to perceive accentuation and to be able to perceive voice melody reliably.
- **Eye-hand coordination** for faster implementation of stimuli
- **Choice reaction time** to be able to react correctly at lightning speed
- **Pitch** and duration pattern recognition to create and recognize specific patterns of sounds and speech.



What does this module offer in *BrainCentral*?

- A wide range of settings for the test procedure
- Test, training and consolidation sequences with age reference for classification of abilities
- Training sequences with patented and proven pre-session logic
- Possibility of switching on noise - for targeted training in noise
- Client-specific storage and display of results and training progressions
- Intuitive app operation with simple icons