

**TECH OFFER**

## Multimedia Learning Program For The Improvement Of Brain Function



### KEY INFORMATION

TECHNOLOGY CATEGORY:  
Infocomm - Educational Technology

TECHNOLOGY READINESS LEVEL (TRL): **TRL5**  
COUNTRY: **SOUTH KOREA**  
ID NUMBER: **TO174990**

### OVERVIEW

Along with the global aging population, the number of people with dementia is also increasing. Moreover, digitalization of society is isolating elderly people. Enjoyable learning using digital devices can be the solution. The product is in the form of a table with a touch screen on the surface. The embedded software is connected to the contents server, which provides various programs such as visual perception and cognitive tests, videos, trainings, and analysis results. They prevent brain aging by stimulating both the left and right brains.

The product is beneficial to children as well. The rich educational contents are designed to develop the problem solving ability and the metacognitive ability. The training course includes solid figures, basic Korean, mathematics, and adages etc. Analysis results are also provided to compensate for a vulnerable subject. In addition, safety education and news from local education offices are provided in conjunction with the government.

## TECHNOLOGY FEATURES & SPECIFICATIONS

It consists of a capacitive touchscreen, Android OS, and a form of a table. Up to four people can use it together. For convenience, it is able to turn the screen upside down. In terms of software, the digital contents are operated on a subscription basis and constantly updated. Since it is designed for both the children and elderly people, it's suitable for all types of families. Nursing homes and educational institutes are also appropriate.

Welfare agencies, nursing homes, educational institutes and households are potential customers. Distributors of electronics and device manufacturers, geriatricians and specialists in education are ideal partners.

One of the standout features of our product is its ability to diagnose the learning outcomes and processes of individual learners. By meticulously assessing each learner's progress, we can provide tailored feedback that helps them maximize their potential and achieve their educational goals. This personalized feedback loop ensures that users are not just consuming content but actively engaging with it to enhance their cognitive abilities and creative thinking skills.

In contrary to the existing cognitive learning tools (only analog), the product is a combination of digital and analog. Therefore, new contents are consistently provided. Also, it can provide education suitable for both children and the elderly. The problems are designed with a structure, it has high scalability and usability. And the contents are based on Triarchic Theory of Intelligence, Torrance Tests of Creative Thinking, Wechsler Preschool and Primary Scale of Intelligence, Creative Problem Solving, and CNS Vital Signs. Also, it diagnoses the results and processes of learning and provides feedback for each learner.

## POTENTIAL APPLICATIONS

It is subscription-type for B2C business and it can be used as a digital treatment through clinical trials after collecting the user's data.

## UNIQUE VALUE PROPOSITION

What sets our product apart is its structured problem-solving approach, which not only ensures a well-defined learning path but also boasts exceptional scalability and user-friendliness. Furthermore, our educational content is underpinned by a rich theoretical foundation, drawing from renowned frameworks such as the Triarchic Theory of Intelligence, Torrance Tests of Creative Thinking, Wechsler Preschool and Primary Scale of Intelligence, Creative Problem Solving, and CNS Vital Signs.