

Real-Time Interactive Remote-Education Platform 'Live Edu'

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$\mathbf{L} \triangleright \mathsf{Back} \mathsf{Ground}$

Changing the Education Paradigm





Knowledge transforer

Study Guide (Teacher)

Rote Learning

Learning method for student's aptitude (administrator, teacher)



Education,

Learning,

Training

Discussion

Anytime, Anywhere, Anyone

One-way in full-duplex



The explosive increase of Internet users

Development of Multimedia **Communication Technology**

Advancement of communication infrastructure

Popularization of mobile devices

Is it possible to satisfy students / parents / teachers / administrators?

Real-Time Interactive Remote-Education Platform 'Live Edu' Why Live Edu

>> Change of educational environment since COVID-19



"This storm will pass. But the choices we make now could change our lives for years to come"

- Yuval Noah Harari (FINANCIAL TIMES MARCH 20 2020)

The Digital transformation in school education

- Build online educational facility and system for future disaster preparation
- Develop online curriculum and student support system
- Develop various big-data related to student and accelerate education using AI

Switching teaching methods by expanding online education

- Generalize Live Online-classes by expanding non-face-to-face class
- Develop various teaching support functions for high learning effects in Live Online-class
- Expanding Smalogue (Smart + analogue) education that combines smart education and face-to-face class

The new normal of education in response to rapid changes in the educational environment due to COVID-19**

Real-Time Interactive Remote-Education Platform 'Live Edu'

Chapter



Live Edu Introduction

II > Live Edu Introduction

Connect Live Online-classes anytime, anywhere

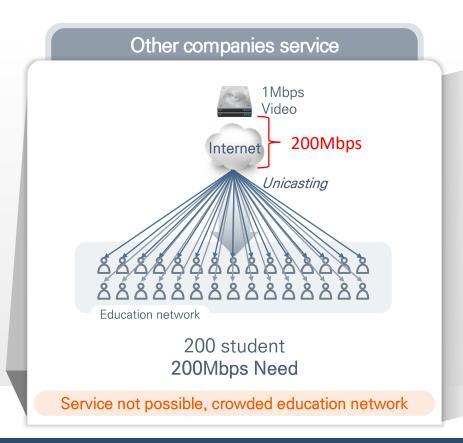
Livedu(Live Edu) provides a educational environment that teachers and students communicate and actively participate in classes even in Live Online-classes with various teaching and learning method

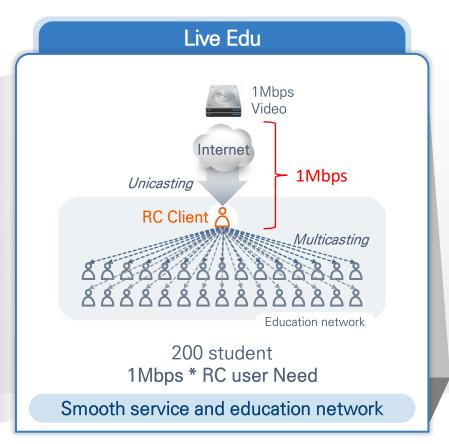


"Reliable Live Online-class solution"



►► HD quality Online-class in low-bandwidth network





Minimum download speeds need at least 800Kbps(PC), 400Kbps(Mobile device)





Various types of teaching for effective education







- Two-way Live Online-class for communication and active participation in class
- One-way Live Online-class for transferring knowledge to many students
- VOD class for students who are regardless of time





>> Various size of Live Online-class can be opened







- Large number of people can participate in Live online-class at the same time by High image compression and network security technology
- Various size of Live Online-classes can be opened such as 10, 40, 60 or 225 people

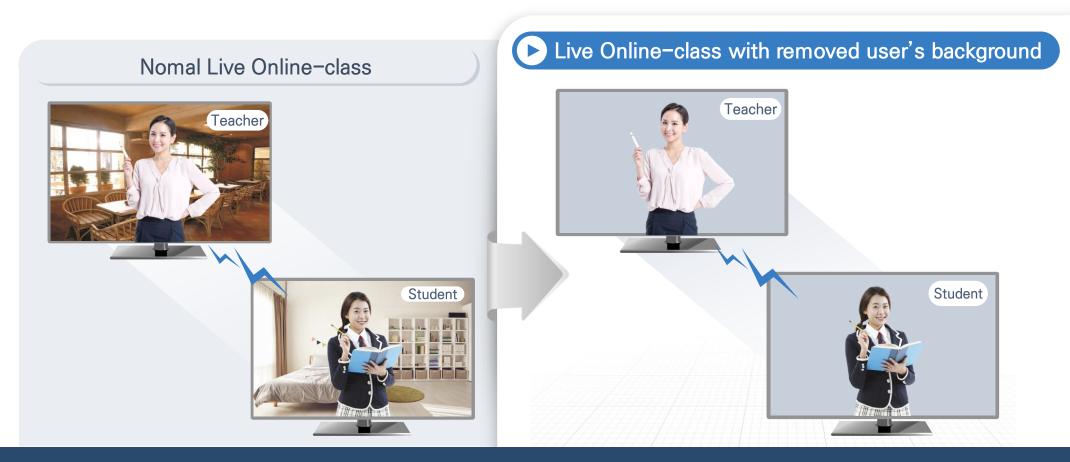
>> Teaching with various type of docs and images as class materials



- Upload any type of documents and images as class materials
- Teacher can clearly deliver contents of the class with whiteboarding.



Removing user's background for privacy



- During Live Online-class, user's backgrounds are removed & unified by 2D Segmentation technology. It makes highly immersive Live Online-class avoiding visual congestion.
- Protect personal privacy



Live Edu Introduction

Create virtual-reality(VR) studio without chroma key studio

Other Companies service





Live Edu



Economics Live Edu **Application** Convenience

- Requires chroma key studio
- Requires software for chromakey processing
- Requires expensive hardware equipment

- Restriction
- No chroma key studio requires
- Create perfect Virtual-Reality studio with simple devices

· Requires complex mechanical processes and experts for virtual reality image processing



- Easy to use creating Virtual–Reality and control
- Content is controlled by motion recognition and mouse

 Limited usage (unidirectional services such as broadcasting)



- Make use of various services and business models
- Virtual-reality based two-way communication service is available
 - "Multi-way Immersive Communications"

Mic control for concentrating Live Online-class

Increasing concentration by mute all

Clear 1:1 conversation between teachers and students







Complex noise caused by voice redundancy

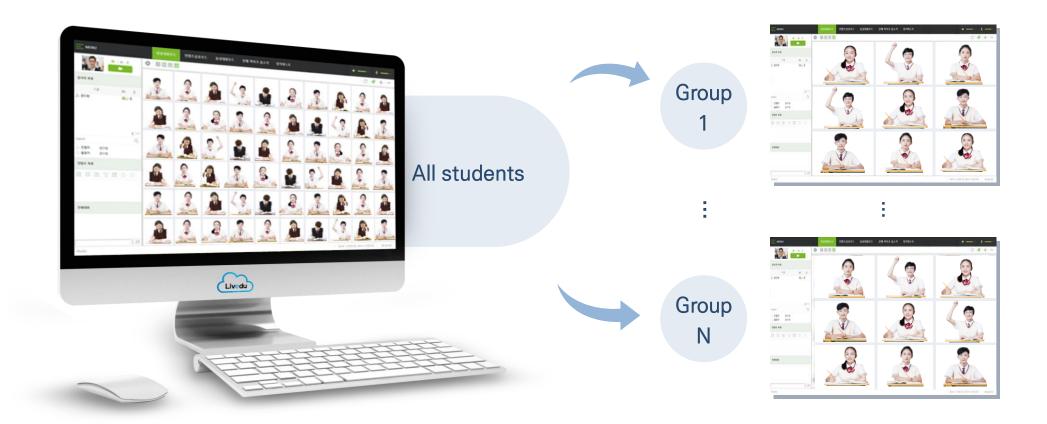
Miscommunication between teacher and student

▶▶ Teacher can turn on/off students mic for noise control and 1:1 conversation



Make small group discussion during Live online-class





Automatically or manually divide students for small group discussion

Make highly immersive discussion

Each small group can be taken e-Test

Small group can be made as much as number of students, during Live online-class





Maximize learning effect with e-Test during Live Online-class





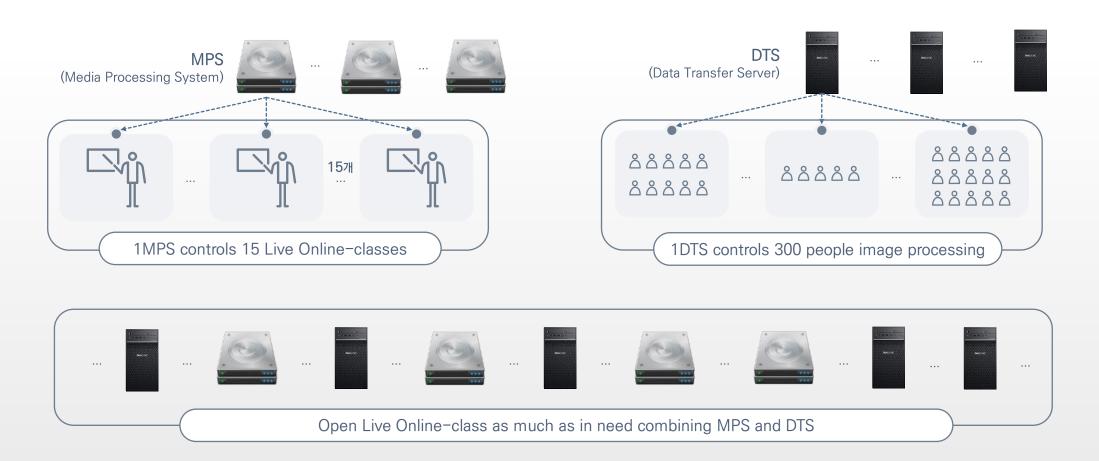
- Taking an exams and scoring during Live online-class
- Students academic performance data is managed by LMS (Learning Management System)



Live Edu Introduction



Open unlimited Live Online-classes



>> Unlimited Live online-classes can be opened at the same time with adding MPS & DTS

Real-Time Interactive Remote-Education Flatform 'Live Edu'

Chapter



Composition and use case

IV Composition and use case

▶ Use case (2) – Reality TV show program 'K-Trot in Town'





Source of data: SBS 'K-Trot in Town'

- Local and global trot fans are participated in the live TV show through PC and mobile at home
- The live tv show is delivered to more than 400 people in high quality video through multi-cast based network traffic management thchnology

IV Composition and use case

▶ Use Case (3) – New concept online concert 'Beyond LIVE'





Source of data: SM Entertainment 'Beyond The Future'

- Dolline-optimized, personalized performance concerts provided via SM Entertainment and Naver V Live
- ▶▶ Global concert audiences enjoy the Live Online Concert by participating in various events through interacive communication with stars

