

Ying Wa College – Deploy Hardware-Based MMLC System to Practice Audiovisual Learning



Smart Teaching MMLC System

Advantages

- High Stability
- Enhance Interest in Study
- Real-Time Broadcasting
- Easy Management
- Reduce the Time of Staff Training

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Ying Wa College, which is a well-known English school, is currently located in Sham Shui Po. For many years, it has devoted to provide students with an independent learning environment and bred them up as eminent persons. With over 190 years of educational experience, Ying Wa College has leaded students to maintain a superior role in local education segment.

Under rapid development of information technology (IT), to assure their students to be familiar with the use of various IT learning systems, Ying Wa College has put so many efforts in implementing campus IT infrastructure. Multi-Media Learning Centre (MMLC) is one of the important tools for them to integrate audio, image & video into a teaching system, so as to facilitate the teaching and create an audiovisual learning environment for students.

Challenge

Mr. Wang, IT teacher from Ying Wa College pointed out, “we had deployed a software-based solution as the system core of MMLC before. Its stability was quite low, and the PC was usually crash”. He explained, “in the past, after broadcasting teacher’s

PC to all students, ‘blue screen of doom’ was always displayed”.

Indeed, when comparing to hardware-based MMLC system, the performance of software-based teaching system was highly influenced by the bandwidth. When the bandwidth was low, delay of broadcasting would be occurred. The operation of software system would also totally stop because of the breakdown of the PC.

They realized that there were some faults of previous software-based system, such as broadcasting errors. It did not enhance teaching effectiveness, and even slow down the teaching pace because of the instability of the system. Thereby, to resolve all these problems, they needed to deploy a new MMLC system with high stability and well performance.

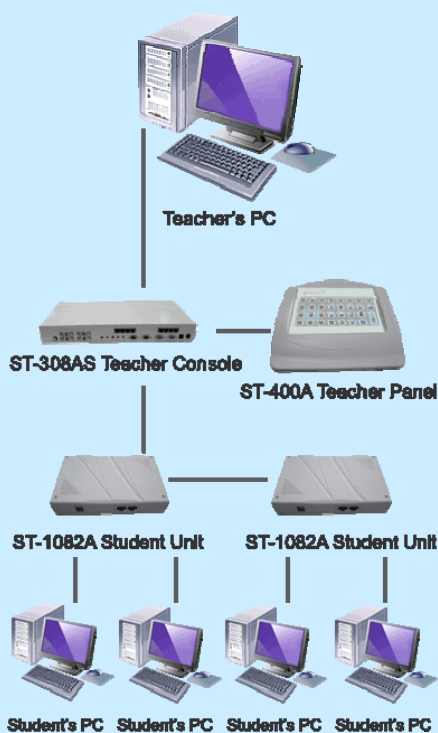
Solution

After comparing to various MMLC solutions from competitors, Ying Wa College decided to select ICT Technologies & Services Limited as their solution provider, and chose Smart Teaching hardware-based system to re-deploy the MMLC. They were the first school in Hong Kong to adopt this innovative system.

By using this teaching tool, they can now unify the management of multi-media classroom, and create an environment of



Ying Wa College - MMLC Configuration



e-learning for students.

Smart Teaching system is deployed in two computer rooms in Ying Wa College. ST-308AS Teacher Console, ST-400A Teacher Panel and about 20 ST-1082A Student Units are configured in each room; and each system is able connects to more than 40 student's computers, which means the whole class can enjoy the audiovisual learning in real-time.

Benefits

Mr. Wang mentioned, in the past, teachers used a projector to capture the image of teaching materials; and then projected it to the screen, which was placed in the front of the classroom, to share with all students. However, it was too far to those students who sat at the back of the classroom; and the projected image was too small and unclear for them to see.

With the Smart Teaching system, teachers are able to broadcast their PC, audio and video to all students' PC screen. That means students can clearly read the teaching materials which prepared by teachers. Besides, under this system, the speed of video/voice transfer is no longer influenced by the bandwidth. Teachers and students can now share a real-time broadcasting; and there is no delay on both video and audio sharing.

Teachers even use the function of "Group Darken" to turn off the monitors of all students so as to mainland a good order in the classroom.

Moreover, nanotechnology sensor panel with three quick function keys, which decreases damage to panel after long-term use, is easy for teachers to control. Its simple interface greatly save the time of related IT training for teacher.

Furthermore, if there is a breakdown of students' PC, Smart Teaching system still work normally and able to broadcast to students' monitors. It eliminates the limitation of software-based MMLC system and greatly enhances teaching effectiveness.

Mr. Wang also pointed out that, hardware-based MMLC system takes greater advantages when upgrading their computers. Indeed, when it comes to PC upgrade, they need not to reinstall the system into all PC, which software-based MMLC system needed. Smart Teaching system can rapidly restart after plugging in. It is much more convenient for technical staff to manage the system.

Apart from the benefits for teachers & technical staff, students can also take advantages from it. Smart Teaching system provides them with a perfect multi-media learning environment. By using IT facilities to study, students not only improve their computer knowledge and skills, but also enhance their interest in study.