

SINGAPORE

Fernvale Primary School upgrades its audio system

KV2 Audio, QSC and Allen & Heath solutions provide clarity



The QSC AD S282H Speakers that acted as delay speakers



The KV2 ESD12 FOH speakers

Situational Awareness

Announcements are part and parcel of typical school environments. These could be announcements about specific events, a message from the school principal and more critically it could be safety announcements. Thus it is important that students know what to do and where to go as well as understand other vital information with regards to the nature of the announcements made. In these situations having complete, accurate and up to the minute instructions is essential.

As children generally have a short attention span it is also important that the message is delivered clearly and loud enough for them to hear it. For this reason, Fernvale Primary decided to implement a technologically advanced audio system to address this as well as to ensure the security and well-being of the school children.

Designing and implementing the audio system was Singapore-based **Creative Elifestyles Pte Ltd.** With the new audio system in place, announcements and messages are delivered with extreme clarity to the listening ear, and more importantly

delivered clearly over the noise of the entire school.

Project Implementation

The solution Creative Elifestyles proposed for Fernvale Primary School Project consists of some new technologies like the Allen & Heath QU16 Digital Mixer Board and the KV2 Audio System ESD12 Two Way Full Range Speakers.

Prior to the KV2 Audio ESD 12 Front of House speakers that was chosen for the Government bid, the dimensions of the School Hall was sent to KV2 Audio in the Czech Republic to have an EASE acoustic simulation. The input of the KV2 Audio ESD 12's specifications into the EASE simulation software had been done and a few acoustic simulations were emulated to achieve the best possible firing angle and sound



dispersion for the School Hall, taking into consideration very carefully the Noise cancellation areas to cancel or at least minimize unwanted sounds.

With the innovative pursuance of excellence, the KV2 ESD range encapsulates multiple disciplines, with a time aligned two way passive network in mid hi enclosures. Building block flexibility in full system design and accompanied by electronics specifically designed to obtain superior audio performance, the ESD range offers genuine ease of set up and operation in a wide spectrum of applications.

For the delay speakers, two units of QSC AD S282H was also incorporated with a further two units installed at the second level balcony area. An additional two units of QSC AD S82's are used as monitors in the control room. All the speakers are powered by the QSC GX3 and GX5 Power Amplifiers.

Having taken care of the high sound pressure level needed, the next "want" on the list from the school was to have the system doubling up for music and drama performance as well. Which meant that the whole spectrum of the audible frequency range was needed.

To achieve this, Creative Elifestyles installed Allen & Heath's latest digital mixer, the QU16. Allen & Heath's QU-16 Digital mixer takes compact digital mixing to a new level with innovative design and exceptional functionality combining to create a superb professional mixing experience. Bristling with all the features you did expect from a top of the range digital console and incorporating technologies pioneered on the GLD and iLive digital mixing systems, Qu-16 has the power



Allen & Heath QU16 – 16 Channel Digital Mixer

and pedigree to deliver class-leading audio performance.

Creative Elifestyles Team took the bold move to propose a digital mixer to a Primary School as it had understood the requirements that the School had and to understand how best to eliminate the issues the School had with the current analogue mixer board it had. The issues faced were that they were unable to control the right volume of a particular event such as during the Assembly or Flag Raising Ceremony. This in turn also raised an issue on the specific microphone volume by individuals such as the Principal, Vice Principal, Discipline Master, whereby they had to always correct the individual faders to find the correct volume & EQ levels required. The Allen & Heath QU16 Digital mixer did the trick as "scenes" were created to each individual event itself. Just by recalling a particular scene which had been programmed and stored, all they would

have to do is to recall a programmed scene, which triggered the QU16's motorized faders to move into the preprogrammed level and EQ's. This saved a lot of time and hassle compared to the analogue mixer board.

The new audio system has been embraced with open arms by the school. "The upgraded hall system provides clear output during assembly and other events. The ease of the digital mixer allows for the best projection of audio during assembly regardless of users," said Mrs Mable Soh, Subject Head, ICT of Fernvale Primary School

"Creative Elifestyles is able to design and successfully install this project because of the experience and dedication of its people as well as effective open communication channels with the school," highlights Robert Adrian, Business Procurement Director, Creative Elifestyles Pte Ltd.

The KV2 speakers as well as the QSC Audio solutions and Allen & Heath mixer was supplied by the local distributor Sindo Exports Pte Ltd.



The QSC GX5 Professional Power Amplifiers

EQUIPMENT

- 1 x Allen & Heath QU16 – 16 Channel Digital Mixer
- 2 X KV2 Audio ESD12 Speakers (FOH)
- 2 x QSC AD S282H Speakers (Delay)
- 2 x QSC AD S282H Speakers (Balcony)
- 2 x QSC AD S82 Speakers (Control Room)
- 3 x QSC GX5 Professional Power Amplifiers
- 1 x QSC GX3 Professional Power Amplifiers

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