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Hurrairah bin Sohail talks with Vichai Trading 1983, an established integrator in Thailand, regarding the AV systems it installed for the Government Lottery Office and how it made sure all demands were met.

Hitting the jackpot

After a period of instability, the political situation in Thailand has settled down and AV professionals in the country report that the government sector is an area being invested in. Vichai Trading 1983 specializes in government projects and one of its recently completed installations was the new premises for the Government Lottery Office at Sanambin Nam, Nonthaburi, Thailand. The Government Lottery Office is the Royal Thai Government's authority for issuing and awarding the national lottery.

The project was started on December 1, 2013 and completed on August 31, 2014. In total, AV equipment and installation services for the project amounted to US\$2.3 million (THB76 million). Thaweesak Thamsirisup, managing director, Poj Phatrapakdee, sales manager, and Pranart Bosakoranat, sales engineer, from Vichai Trading

“ We distinguish each meeting rooms’ equipment for suitable use per the rank of the officer that is using the room. ”
 - Thaweesak Thamsirisup, Vichai Trading 1983

Tech-Spec

Audio

Allen & Heath iLive-T112 mixer, IDR-32 stagebox
 Audio-Technica ATH-M50 stereo headphone

Audio-Technica wired and wireless microphones

Biamp Nexia DSP Biamp AudioFLEX

DIS CU-5908 conference system and DC5908, DC5908P microphones

Kramer receivers

QSC Core500i DSP

Renkus-Heinz IC8R, IC7, CF121M-2, CF12S-5 speakers

Tannoy DVS-4T, Reveak 501 speaker

TOA A-1712 amplifier

1983 discuss the details of the project. Thamsirisup relates the brief that was given to the integrator for the project: “The Government Lottery Office wanted a reliable AV systems integrator that has experience in government AV installations to help them create a high quality and future proof system that suits their needs.”

Office building

The Government Lottery Office comprises of two main buildings, the office building and the award building. The office building has 11 floors and houses a library, learning center and a host of meeting rooms and huddle rooms. Regarding the installations at the office building the integrator says: “For the office building

each meeting room was designed by Vichai Trading 1983 as per our standard for government installations. Mainly, we distinguish each meeting rooms’ equipment for suitable use according to the rank of the officer that is using the room.”

Portable discussion units are provided for general use, gooseneck installed microphones are available for directors while wireless conference systems have been provided for executives.

Starting with the library on the first floor, Vichai Trading 1983 implemented a CCTV system comprised of Panasonic fixed IP CCTV and Panasonic DVR recorders. Samsung 40in and 22in LED TVs are used as displays while a Sony Blu-ray player serves as an input source. Vishow media player and Kramer HDMI, audio and VGA splitters are also part of the setup.





Moving on to the second floor, there are a number of meeting rooms that sport DIS conferencing units and microphones. Tannoy speakers and TOA amplifiers are also used. Visuals are handled by a Panasonic PT-VW330 projector along with a Gygar motorized screen and Kramer receivers.

The seventh floor houses a number of learning spaces and training centers. These facilities have been provided with Audio-Technica microphones. Sound in the room is handled by a mix of Tannoy ceiling speakers, TOA amplifiers and Biamp Nexia DSP. Visuals are provided by a Panasonic PT-VW430EA projector that projects onto a motorized Gygar screen. Samsung 22in and 46in LED TVs are also present as displays while distribution of data is handled by a set of Kramer splitters, transceivers and receivers.

The best of Vichai Trading 1983's work for the office building of the Government Lottery Office is represented by the AV installation for the Lottery Office boardroom on level 11. The conference system is an Audio-Technica ATCS-60 infra-red wireless microphone system along with Audio-Technica wireless handheld microphones. A Kramer VS-88V matrix switcher is responsible for taking care of inputs and outputs and a Kramer VP-410 which is responsible for scaling composite and stereo audio to HDMI.

The boardroom also has a CCTV system with Panasonic WV-CS850 dome cameras and a Panasonic surveillance monitoring system. Data is recorded on a Panasonic WJ-HD716 DVR recorder and displayed on a Samsung 22in LED TV. The audio system is based around a Biamp AudiaFLEX 12 by 12 digital matrix mixer, TOA A-1724 amplifier and DBX graphical EQ units. Tannoy ceiling speakers and Henkus-Reinz active speakers are placed around the venue to provide audio.

The boardroom houses a Canon XEED-WXU4000 projector that provides 3,200 lumens brightness. A dnp Supernova Flex Classic 118in screen is used for the

projection and the actual projector itself is housed in a Lypn projector lift. A WOW Vision MiniVEOS can be used for visualizing content in conjunction with the projector setup. Other input sources include a Sony BDP-S190 Blu-ray player and a HP PC. Distribution is handled by a Kramer VM-16H amplifier along with a set of Kramer HDMI over twisted pair transceiver and receiver. Samsung 19in LED TVs are also part of the setup.

The control system is exclusively AMX with a range of touch panels, data inlet plate with media transmitter and Enova media switcher with media cards.

Award building

For the Award building and its three levels, a different set of AV systems was required to help the venue fulfil its function. Thamsirisup states: "As the Government Lottery Office is required to air each lottery's winning numbers to the national media, the award room has special requirements; including CCTV to capture the winning numbers as well as the VDO wall system behind the stage."

Starting with the Award room on the 1st Floor, Vichai Trading 1983 has fitted the space with Audio-Technica microphones. Renkus-Heinz speakers have been used for the stage area while Tannoy speakers have been deployed in the control room. QSC DSP handles processing and an Allen & Heath 32 channel iLive-T112 mixer is also provided.

Being able to broadcast the national lottery was an essential requirement for the Award room. Vichai Trading 1983 has installed a solution from Sony comprising full HD cameras, remote control and channel selector for this purpose. Blackmagic compact videohub and videohub smart control are also employed.


Visuals are provided by Panasonic DZ-770 projector in an SVS projector lift that projects content on a 220in

Da-Lite screen. Control is provided by an AMX NI-3100 system.

But the main part of the award room installation is a video wall. Vichai Trading 1983 chose NEC 46in TVs in a VDO wall bracket along with a Viswall video processor. Distribution is handled by a number of Kramer splitters, receivers and transceivers. Control is provided by an AMX NI-3100 processor and Apple iPad.

The third floor of the Award building has a seminar and banquet room. Much like the other areas a mixture of different Audio-Technica microphones, Tannoy and Renkus-Heinz speakers and QSC DSP handle audio. Visuals are projected by a Panasonic unit on to a Da-Lite Senior 250in screen while data is distributed by a Kramer setup.

While the design of the AV systems to be used was not a challenge, there were some external factors which made implementation difficult. Thamsirisup states: "During the installation periods there were unusually heavy rains, which caused the ceiling in many areas, especially in the banquet hall of the Award building to leak. This caused some of our equipment to malfunction and caused the project delay by around three months."

Vichai Trading 1983 will provide the standard technical support and maintenance for the Government Lottery Office for a predetermined period of time. Vichai Group has a dedicated team of professionals to take care of all the after sales service under the banner of Audio Engineering Service Co. Ltd. 

The boardroom [left] is well equipped with AV technology including a Canon XEED-WXU4000 projector firing on to a dnp Supernova Flex Classic 118in screen [middle] and an Audio-Technica conferencing system [right]

Tech-Spec

Video

Blackmagic videohub
Canon XEED-WXU4000
Da-Lite Large Cosmopolitan 220in (16:10) motorized screen,
Senior 250in motorized screen
dnp Supernova Flex Classic screen
Gygar Electrix motorized screen
Kramer receivers, splitters, transceivers
Lypn plm-04 motorized screen lift
NEC X464UN display
Panasonic CCTV solution and projectors
Samsung displays
Sony Blu-ray player, full HD camera, remote and channel selector
SVS Mini4.5 projector lift
VDO wall bracket
Viswall video processor
Vishow media player

Control

AMX NI-3100, EXP-5231,
Enova system and touchpanels
Apple iPad 16GB