

## PARTNER STORY



## EDUCATION



### OPPORTUNITY

Upgrade an aging sound system to provide world-class audio for lectures, student activities and on-campus events.



### SOLUTION

University leaders hired Ba Sao Investment to upgrade the aging sound system with a comprehensive audio solution from HARMAN Professional Solutions, featuring products from JBL Professional, Crown, Soundcraft, and dbx.

“

HARMAN Professional Solutions provided all the necessary tools and processing power to achieve proper sound coverage in the hall, and all of the equipment worked together seamlessly—making it that much easier to optimize the system.”

### VIETNAM, VIETNAM NATIONAL UNIVERSITY

Founded in 1945, the state-owned Vietnam National currently offers graduate and undergraduate degrees in 131 Master programs, 126 Bachelor programs and 107 PhD programs in fields such as natural sciences, multi-industry technologies, social sciences and humanities, economics, education, foreign languages and more. In order to provide world-class audio for lectures, student activities and on-campus events in Nguyen Van Dao Hall, university leaders hired Ba Sao Investment to upgrade the aging sound system with a comprehensive audio system from HARMAN Professional Solutions.

“Vietnam National University is one of the most prestigious schools in Vietnam,” said Nguyen Khac Anh, CEO, Ba Sao Investment. “VNU officials asked us to design a sound system that would enhance the clarity and coverage in the hall, while minimizing early reflections and unwanted reverberation. We surveyed the venue and determined the specifications required to achieve the university’s goals. The HARMAN system we installed met all those specifications, while staying within their budget.”

The HARMAN system installed in Nguyen Van Dao hall includes a main hang of JBL VRX932LA-1 line array speakers, supplemented by VRX918S subwoofers. VRX915M two-way speakers provide lecturers and performers with accurate, low-profile stage monitoring. The entire system is powered by Crown Macro-Tech i Series tour-grade amplifiers, while a Soundcraft GB4 analog console ensures a clean, professional-sounding mix at each event.

One of Ba Sao Investment’s biggest challenges was designing a system that would deliver proper coverage and clarity, despite the hall’s traditional architecture and high ceilings. Ba Sao Investment relied on a dbx DriveRack VENU360 loudspeaker management system to tune and optimize each speaker’s performance in the room.



AKG

AMX

ESS

CROWN

dbx

JBL  
PROFESSIONAL

lexicon

Martin

Soundcraft

STUDER



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“The biggest obstacle we faced was working within the acoustic constraints of the existing architecture of the hall,” continued Mr. Khac Anh. “Fortunately, HARMAN Professional Solutions provided all the necessary tools and processing power to achieve proper sound coverage in the hall, and all of the equipment worked together seamlessly—making it that much easier to optimize the system.”

“We are proud to see our solutions being used by Vietnam National University,” said Ramesh Jayaraman, VP & GM, HARMAN Professional Solutions, APAC. “We believe the students and faculty will now enjoy a world-class audio experience in Nguyen Van Dao Hall. We thank Ba Sao Investment for their confidence in HARMAN’s products and their dedication to customer satisfaction.”

#### PRODUCTS USED

**JBL VRX SERIES LINE ARRAYS**

**CROWN MACRO-TECH I SERIES AMPLIFIERS**

**SOUNDCRAFT GB4 MIXING CONSOLE**

**DBX DRIVERACK VENU360 LOUDSPEAKER MANAGEMENT SYSTEM**

#### ABOUT HARMAN

HARMAN (harman.com) designs and engineers connected products and solutions for automakers, consumers, and enterprises worldwide, including connected car systems, audio and visual products, enterprise automation solutions; and services supporting the Internet of Things. With leading brands including AKG®, Harman Kardon®, Infinity®, JBL®, Lexicon®, Mark Levinson® and Revel®, HARMAN is admired by audiophiles, musicians and the entertainment venues where they perform around the world. More than 50 million automobiles on the road today are equipped with HARMAN audio and connected car systems. Our software services power billions of mobile devices and systems that are connected, integrated and secure across all platforms, from work and home to car and mobile. HARMAN has a workforce of approximately 30,000 people across the Americas, Europe, and Asia. In March 2017, HARMAN became a wholly-owned subsidiary of Samsung Electronics Co., Ltd.



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