

## PARTNER STORY



## HOTELS



### OPPORTUNITY

The five-star U Nimman Hotel in Chiang Mai, Thailand required an extensive, state-of-the-art networked AV system to provide world-class audio-visual support for large-scale events.



### SOLUTION

Mahajak Development Co. equipped U Nimman Chiang Mai's convention hall with a full complement of class-leading HARMAN solutions from AMX, Crown, JBL and Soundcraft.

“

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### U NIMMAN HOTEL, THAILAND

U Nimman Chiang Mai is a five-star luxury hotel located in northern Thailand's largest city, built by Tan Passakornnatee and Tan Boon Company. In addition to 147 guest rooms and suites, the hotel features a 1,100 square-meter convention hall which can be split into three separate sections. To provide a high-quality audio and video solution for conventions, weddings and other events, U Nimman Chiang Mai hired Mahajak Development Co. to install an integrated HARMAN networked AV system including AMX network controllers, Soundcraft digital mixers, Crown amplifiers and JBL loudspeakers.

“To meet the needs of modern travellers, U Nimman required cutting-edge lighting and AV systems, especially in the convention hall,” said Pongsakorn Kanchanachayphoom, Director of Project, Mahajak Development Co. Ltd. “Each room demanded robust AV, lighting and control systems, and HARMAN's best-in-class products met the client's needs to the last detail.”

Mahajak selected the AMX NetLinx NX-2200 Integrated Controller as the core of U Nimman Chiang Mai's networked AV system. Designed for maximum flexibility, the NX-2200 connects all audio, lighting and video equipment via a user-friendly digital network. The flexible network architecture allows the convention hall's entire AV system to be controlled from one place, or split into individual zones as needed. The included NX Master Security firmware ensures secure communication across the network, providing secure control and monitoring, high performance and backward compatibility.

For sound reinforcement in the convention hall, Mahajak installed the Soundcraft Si Impact digital mixing console. Featuring 32 microphone preamps and an additional 64 audio streams via Dante network protocol, the Si Impact scales to events of all kinds. A 5" touchscreen display, color-coded FaderGlow lighting and iPad Control input make the Si Impact even more powerful and easy to use. Packed with DSP power, this console not only provides incredible sound effects during DJ sets and concerts, but also offers studio-grade reverbs, delays and modulations.



AKG

AMX

ESS

CROWN

dbx

JBL  
PROFESSIONAL

lexicon

Martin

Soundcraft

STUDER



“  
HARMAN’s comprehensive audio solution ensures that every word and sound is delivered with absolute clarity, bringing the hotel’s events to life. We’re pleased that U Nimman Chiang Mai chose HARMAN products to elevate their guest experience with world-class sound and state-of-the-art control systems, and we thank Mahajak Development for another wonderful installation with excellent customer support, enhancing partnership with our end customers.”

Crown Macro-Tech 9000i power amplifiers connect to the network via the advanced System Architect Ethernet protocol, letting system operators monitor and control them from any location. The light-weight Crown Macro-Tech 5000i power amplifier is set to produce an energetic tone while delivering unparalleled sonic accuracy and detail. The CDi 1000 yields accurate, uncoloured sound with low distortion perfect for music and vocal reproduction. The patented Class-I circuitry delivers maximum efficiency, pairing perfectly with the powerful and compact JBL VRX32LA-1 line array loudspeakers. Constant Curvature waveguides give the arrays even coverage across the convention hall.

An array of other JBL loudspeakers were also installed, including JBL PRX812W 12” two-way bass reflex speakers. Powered by a 1500-watt Class-D amplifier, they deliver incredible volume and flexibility as stage monitors and fill speakers. Light-weight, full-range JBL PRX815W/230 speakers feature remote Wi-Fi control of onboard DSP EQ parameters and portability that makes them an ideal choice for DJ’s, musicians, entertainers and artists. This cutting-edge speaker also offers the option of tailoring the EQ for live music, recorded music playback and reinforcement of speech.

The 18” JBL PRX818XLFW/230 subwoofer brings maximum sound coverage and is highly adaptable. It can be used as a single sub in a sub/sat system, or in multiples as part of a more extensive sound reinforcement system, ensuring quick set-ups and tear-downs. Engineered with class-leading DSP at its core, it offers user-selectable crossover functionality, polarity optimization, protection, dynamic limiting and discrete component optimization while providing sub bass frequencies with accuracy and power.

“Mahajak did a splendid job enhancing the audio-visual experience at our convention hall, providing remarkable fullness and presence,” said a spokesperson at U Nimman Hotel Chiang Mai. “We are highly satisfied with Mahajak’s services and HARMAN’s high-performance AV systems.”

“HARMAN’s comprehensive audio solution ensures that every word and sound is delivered with absolute clarity, bringing the hotel’s events to life,” said Ramesh Jayaraman, VP & GM HARMAN Professional Solutions, APAC. “We’re pleased that U Nimman Chiang Mai chose HARMAN products to elevate their guest experience with world-class sound and state-of-the-art control systems, and we thank Mahajak Development for another wonderful installation with excellent customer support, enhancing partnership with our end customers.”





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#### CONTACT

For PR Inquiries:

David Glaubke

Director, Public Relations

HARMAN Professional Solutions

david.glaubke@harman.com

+1 (818) 895-3464 Office

+1 (818) 470-7322 Mobile

#### FOR APAC

RV Ramachandran

Marketing Director - Asia Pacific

HARMAN Professional Solutions

108 Pasir Panjang Road

#02-08 Golden Agri Plaza

Singapore 118535

TEL No: +65-6870-5000

DID No: +65-6870-5092

Mobile: +65-9146-2464

Email: RV.Ramachandran@harman.com

#### PRODUCTS USED

**AMX NETLINX NX-2200 INTEGRATED CONTROLLER**

**CROWN CDI 1000 POWER AMPLIFIERS**

**CROWN MACRO-TECH 9000I POWER AMPLIFIERS**

**CROWN MACRO-TECH 5000I POWER AMPLIFIERS**

**JBL VRX32LA-1 LINE ARRAY LOUDSPEAKERS**

**JBL PRX812W LOUDSPEAKERS**

**JBL PRX815W/230 LOUDSPEAKERS**

**JBL PRX818XLFW/230 SUBWOOFERS**

**SOUNDCRAFT SI IMPACT DIGITAL MIXING CONSOLE**

#### 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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