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One Systems Direct Weather Loudspeakers installed at Nikki Beach Resort & Spa in Turks & Caicos Islands

Nikki Beach Hotels & Resorts operates a number of luxury venues around the world, from Panama's Pacific Coast to Honduras, with others planned in such locations as Thailand and Bali. Its most recently completed resort in Providenciales Turks & Caicos Islands features a number of One Systems all-weather outdoor loudspeakers that are ideally suited to the poolside and beach environments with their salt spray and high humidity.

"For the Nikki Beach Resort & Spa's new background music systems we supplied a number of One Systems 108IM waterproofed cabinets for mounting on poles around the covered dining room, pool areas and walkways," explains Mike Chafee, president of One Systems Florida-based representative firm Michael Chafee Enterprises. "A separate long-throw system is comprised of One Systems 312CIM full-range loudspeakers with 118Sub-W subwoofers. The entire background and music playback system sounds outstanding." Set amongst the natural beauty of a spectacular 423-acre island resort, guests at Nikki Beach Turks & Caicos enjoy ocean-view suites, pristine beaches, spa facilities and the signature Beach Club venues.

A total of 12 zones can be addressed individually through the background-music system using a programmable Symetrix SymNet routing and EQ/dynamics processor. "We have two zones covering the dining areas," Chafee says, "comprised of Inside and Outside zones that feature a total of 16 Model 108IM cabinets arrayed in a 270-degree arc. The swimming pool is covered by another zone that is comprised of eight Model 108IM cabinets, while three VIP Kiosks close to the beach are provided with an additional zone of six Model 108IMs. Two more Model 108IMs are provided in the Wedding Kiosk." The 108IM loudspeakers are either mounted on

... continues on page 2 –

tall poles or affixed to the walls of the kiosks close to the roof line, and are powered via a 70-volt network from a rack of QSC CX204V four-channel amplifiers.

The new Model 108IM all-weather loudspeaker system is intended for outdoor as well as indoor installations that require high vocal intelligibility and sonic accuracy, in addition to handling direct-weather exposure. “The Model 108IM offers both excellent full-range fidelity and superior vocal reproduction,” considers One Systems president Doug MacCallum. The unit features a single 8-inch woofer and ETS driver coupled to a fully rotatable high-frequency horn; it can also be supplied with a 75W three-tap line-matching transformer with a 70.7V primary. A complete selection of array and flying/suspension hardware also is available.

“The long-throw system features a pair of Model 312CIM cabinets powered by a single QSC PowerLight PL380 amplifier,” Chafee continues, “while the four Model 118Sub-W subs mounted beneath the 312CIMs are fed in bridged mode from a pair of QSC PL340s.”

An optional PT-35 Pan and Tilt Bracket is designed for use with the Model 108IM enclosure. The PT-35 provides a tilt angle range from vertical (zero degrees) to a maximum down tilt of 35 degrees, adjustable in five-degree increments. The pan angle varies from on-axis to 40 degrees either side of the longitudinal axis in 13.3-degree increments. All bracket components are constructed of high-quality stainless steel, and are suitable for outdoor permanent installations.

“The Model 108IM’s high acoustic output-to-size ratio makes the system ideal for short-throw or defined-coverage/medium-Q applications,” MacCallum offers. “For outdoor public-address and full range music installations, the 108IM enclosure is a copolymer optimized for high UV exposure and long life in harsh environments.” All internal and external rigging and suspension hardware, as well as the metal grille are stainless steel or high strength aluminum. The grille is a three-layer “rain shield” design that will minimize direct rain contact with the system’s transducers. The unit’s vent design allows for easy moisture drainage from the interior of the enclosure. The enclosure and grille design are rated to IEC 529 IP45, solid object penetration to 1 mm (0.04 inches) and water jets from any direction.

The 312CIM is a three-element, shaded-array loudspeaker system designed to produce high sound-pressure level vocal range content with high intelligibility. The cabinet features a trio of 12-inch, direct-radiator transducers configured in a shaded array; the upper element is also a coaxial system that features a large-format HF compression driver. The array produces vertical beam width control to below 200 Hz and maintains a 60-degree vertical-included radiation angle to below 300 Hz. A three-layer rain-shield design minimizes direct contact with the internal transducers. The enclosure and grille design also are rated to IEC 529 IP45.

“One Systems is the only company,” Chafee concludes, “which has a complete line of outdoor loudspeakers that satisfies my personal audiophile tastes and also has the efficiency to reproduce the full dynamic range of music in an outdoor situation. They sound so good that you want to turn them up. In other words, these One Systems cabinets *Kick Butt*, while enveloping the entire property with beautifully reproduced sound.”

The One Systems loudspeakers plus accessories were supplied and installed by Kris Brown from BayView AV and PCS Open Technologies, a Tampa-based project management firm. The AV contractor and integrator was All-Pro Sound, based in Pensacola, FL.

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Headquartered in Nashville, TN, One Systems, Inc. is a high-quality manufacturer of direct-weather loudspeaker systems. Established in 2006, One Systems, Inc. is the developer of Equivalent Throat Technology (patent pending), which creates wider sound dispersion and beam width than conventional driver designs, and the Inside/Only Voice coil (patent pending) which, for the first time, provides consistent thermal conductivity regardless of voice coil height.

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