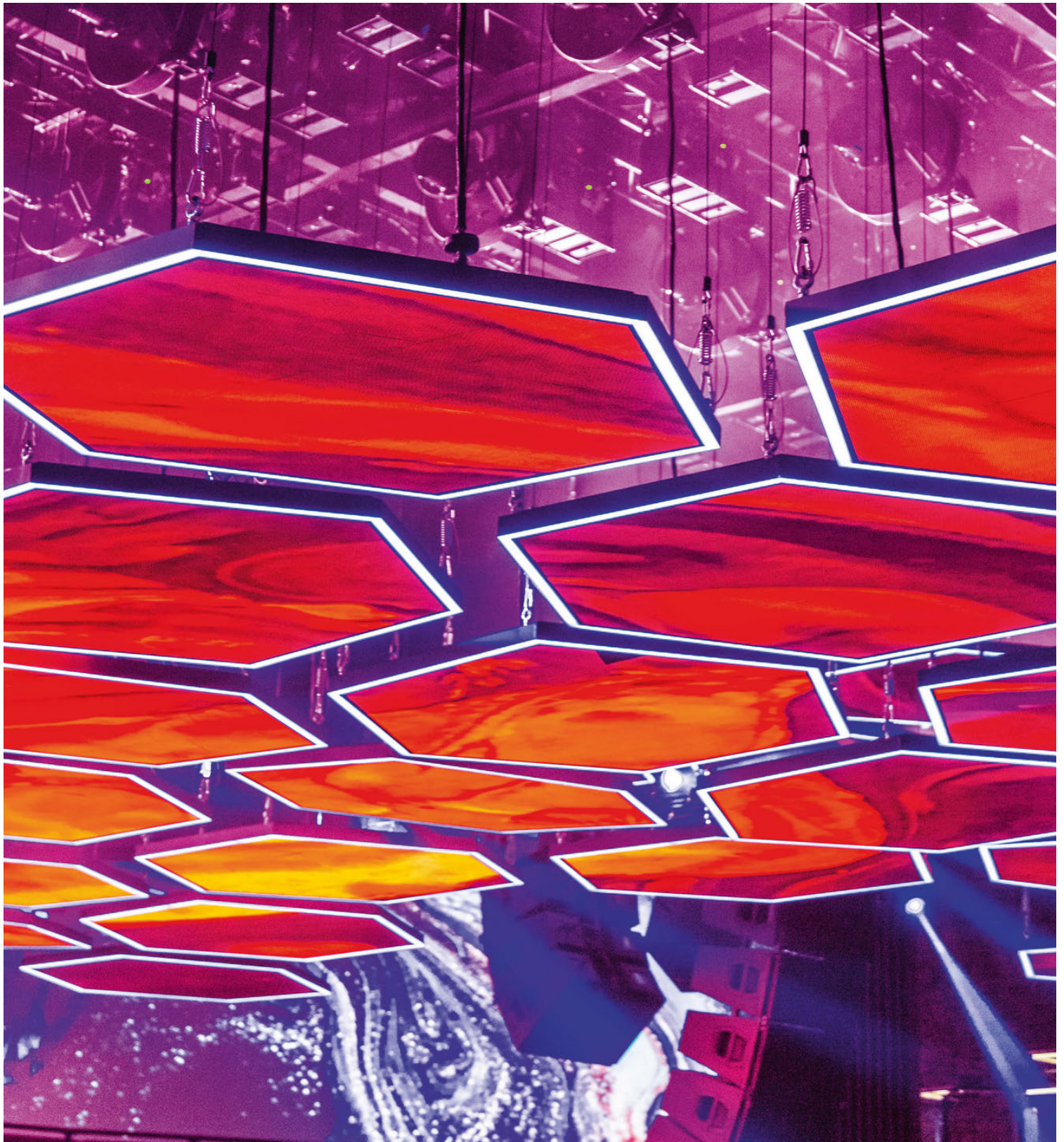


MONDO

THE INTERNATIONAL PUBLICATION FOR TECHNOLOGY IN ENTERTAINMENT

MARCH / APRIL 2022

PACHA IBIZA
MULTIPURPOSE VENUES
LASERS & SFX



Goodtime Hotel

COMPANY: 1 SOUND
LOCATION: Miami, USA



David Grutman and Pharrel Williams opened The Goodtime Hotel in Miami Beach in April 2021. The hotel contains the 30,000 sq ft Strawberry Moon restaurant, which includes the rooftop pool club. The hotel soon became a celebrity favourite and DJs like Marshmello and Steve Aoki hosted performances at the pool club. However, due to the pool deck's sound system and lack of sound control, it accumulated 29 noise violations and several city citations, putting the hotel at risk of losing its entertainment permit and furthermore, closure.

Michael Larkin, The Goodtime Hotel's attorney, insisted that the club area is a critical "economic" component of the project. "The Goodtime Hotel will suffer greatly if it is not able to have outdoor entertainment on our pool deck. It will cause our hotel to shut down," Larkin said. Still, the hotel operators were called before the Miami Beach Planning Board in July to discuss the repeated noise infractions of the hotel's outdoor entertainment permit, namely a condition that music should not be audible at the nearby Arcadia House Condominiums, located diagonally across from the hotel.

A September deadline for a permanent solution was issued by the Miami Board. In the meantime, the hotel did what it could to minimise disturbances by turning its music "all the way down" and even utilising staff to walk to the Arcadia Homes to verify the sound concentrations. Committed to finding a solution, Grutman hired noise-cancellation and acoustic experts to determine how the pool could function as a club again, as originally intended. Groot Hospitality brought in Angelo Poulos, CEO of Anthem SSL Productions, who then contacted David Kotch, President of Criterion Acoustics, and Lou Mannarino, Designer of premium speaker manufacturer 1 SOUND, to take on the challenge. 1 SOUND, made in the USA, has created its catalogue of speakers based on audio solutions that were not available on the market.



Together they proposed that the Miami Planning board agree on a decibel standard instead of opinions on what is "too loud," allowing the install of a new system that would be 30dB less audible on the street. The design transformed into the exclusive incorporation of 1 SOUND speakers for the pool club, satisfying the need for high SPL for the parties, while relying on the cancellation and steerable qualities of the speakers and subwoofers.

For the main DJ booth, 1 SOUND's Tower System was the optimal choice – three Tower LCC44s for the top left and right, offered high SPL in a coherent 120° dispersion pattern, each unit containing three rear-facing 4in full-range drivers that make each speaker have 20 dB rear cancellation. These sit on top of CSUB610 subwoofers that were deployed in fully cardioid mode. Each left and right used three CSUB610s next to each other to create natural coupling that gave an even more powerful and directed bass.

For the main bar, they focused the design on sound in proximity for controlled coverage as opposed to higher SPL for coverage that would risk unwanted sound spillage. Cannon C4is, which have an extended low frequency, were implemented on pendants at a height of 8ft under the bar's ceiling. In the VIP cabanas, Panorama MS34s were used in mono+stereo mode with 100° conical directivity, enabling true stereo to be heard in the full width of the cabana from one source. A proprietary technology that only 1 SOUND has developed, that preserves true mono in its field and surrounds the listener with a left and right stereo image. Tower Systems were distributed throughout the rest of the space, some SUB310s and CSUB610s in omni, but when placed in the gardens towards the roof's edge, CSUB610s were in full cardioid.

"This design required a lot of attention to placing the speakers in proximity to the crowd and avoiding sound from spilling over onto the streets. But we still needed the club 'adrenaline-rush' sound. That is where having 1 SOUND's Towers and the cardioid CSUB610s really became the ideal tool to work with for this design," said Angelo Poulos, Anthem SSL Productions.

This was a challenging project. Even though many acoustical solutions were discussed, this design was able to rely on the cancellation qualities of 1 SOUND speakers for success. The board approved the installed audio design as it achieved diminished noise pollution. "I designed these products for exactly this purpose," said Mannarino. "In my 40-year career as a sound engineer, I would often run into roadblocks and there was nothing like this that existed. So, it was really satisfying when I went to listen and do final tuning."

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