

Sporting and recreation

GIRAFÁ WATERPARK

Angola, Central Africa

XILICA



Located in the Benfica neighbourhood of Luanda - the capital of Angola - the Girafa Complex constitutes a new concept in high-end leisure and entertainment. Designed to offer compelling experiences for the entire family, the Girafa park spans more than 22,000 square metres and is divided into three primary areas: the Brincolândia water park; the pavilion area with two halls; and the food and games square.

Leading AV integration company **Garrett Audiovisuals** worked in close cooperation with Girafa's owners to provide a sophisticated installation integrating sound, vision, lighting and control systems. In keeping with the desire to include the most highly specified technology, Garrett Audiovisuals elected to use Xilica Neutrino DSPs in all three areas of the complex.

Where required, the systems are integrated with the site's Dante network, as Luis Tavares from the technical department at Garrett Audiovisuals explains: "The system in this case is divided into four zones at four different points of the amusement park and is interconnected by the Dante link. There are also four touch control panels that allow you to select different music sources for different zones, as well as control and distribution of recorded messages and voice alerts. All the racks are connected by a fiber optic ring and network switches for that purpose."

In the Brincolândia water park, sound management and control are handled by a quartet of Xilica Neutrino A1616-N Dante processors. Built on the audio performance reputation of the company's 40-bit floating point DSP engine, high performance 24-bit converters, and premium grade mic preamps, the Neutrino DSPs are designed to bring a new level of audio performance and 'drag and drop' ease to fixed audio installations.

Handling the DSP needs for the pavilion spaces are two Xilica XP-8080s - one in each pavilion. Designed to bring quality and price-efficiency to a wide range of install settings, the XP-8080s incorporate a fixed architecture DSP; a 96kHz sampling, 40-bit floating point DSP engine; and high-performance 24-bit converters.

Xilica technology can also be found in the impressively multi-purpose food and games square, which incorporates five restaurants, four bowling lanes and snooker tables. In this area Garrett Audiovisuals has specified two XP-3060 3-in, 6-out professional matrix DSP system controllers. All 3 inputs offer 650ms delay, 31-band graphic and 8 parametric EQ's, a complete filter section (max 48dB) and a compressor. Once again, 24 bit AD/DA conversion and a 40-bit floating point DSP at a 96kHz sampling rate ensure high end audio quality.

Reflecting on the completion of a demanding project in which rock-solid reliability and ease of integration with the site's Dante network were chief priorities, Tavares reports that the Xilica processors "are performing brilliantly as part of a system that offers total reliability and flexible routing for all the current audio requirements, as well as many that might arise in the future."