



Market Segment:
Healthcare

Country of Installation:
Dubai, UAE

Year of Installation:
2021

End customer:
Barraquer UAE eye hospital

System Integrator:
Bahri & Mazroei technical Systems (BMTS)

Solutions:
**Public Address,
Voice Alarm (PAVA)**

Key Products:
**VIPEDIA-12 NET,
V2000,
MPS01s,
WMC-01**

Key Technology:
**EN54-16 PAVA with integration
to Queue management system**

Zenitel's Public Address and Voice Alarm solution saves costs at Dubai Healthcare City

The End User

The Barraquer Eye hospital is the Eye Hospital Facility in Dubai Healthcare City– Dubai. Sprawling over 13,000 square meters and six floors, the facility provides a full range of services through outpatient consultations as well as inpatient treatments.

The Requirement

The customer wanted to reduce the number of audio systems by merging operational and life safety communication systems under one platform, while ensuring that the final audio system would deliver exceptional acoustics throughout the healthcare facility. This single audio platform needed to deliver life safety emergency messages that is in line with UAE fire codes while delivering CODE blue operational announcements to streamline hospital emergency operations. In addition, the audio solution needed to integrate with the facility's Queue Management System (QMS).

The Solution

The Zenitel PAVA system installed at the property consists of a centralized

rack within the ASL PAVA portfolio. ASL PAVA products are tested to rigorous safety standards, including EN 54-16, UL, and CSA certifications. They deliver a full range of frequency response, 16bit/48kHz sampling, and high-quality audio processing for crystal clear, high intelligibility message reproduction. The Zenitel PAVA solution is equipped with a dedicated DSP based Vipedia Audio controller with network card and Modular Class-D Amplifiers, delivering customer needs for operational and safety critical communications. Zenitel's PAVA system capabilities are further extended with integration to third-party system such as QMS.

The overall solution incorporates 28 audio zones with high-performance ceiling and surface-mounted loudspeakers for PAVA/Background Music Applications. Each nurse station and reception areas are equipped with an IP-based paging microphone

for local paging to corresponding department zones and volume control and background music channel selection functions.

In summary, Zenitel's PAVA system caters to the client's versatile requirements with a single solution that includes:

- a. UAE fire code compliant PAVA system
- b. QMS announcement
- c. Code Blue broadcast via IP microphones at nurse stations

The Result

Zenitel has successfully delivered an EN54 complaint PAVA system in line with local civil defense requirements. Using a single microphone, the medical staff can now manage both life safety announcements such as fire evacuation messages, as well as voice

alarm during medical emergencies such as CODE blue announcements. This provides a seamless experience for the medical staff and helps them to streamline hospital operations.

With the integration with a third-party QMS system, the customer can route operational announcements from QMS through the PAVA system. The result is a cost-effective, multi-purpose PAVA solution.

Zenitel's PAVA solutions are designed for high availability with features such as self-diagnostic monitoring, which gives the customer peace of mind of a fully functional system at all times.

Why Zenitel?

Zenitel is well positioned to drive the future of intelligent critical-communication solutions. Through our portfolio of IP products & solutions, with built-in intelligence and a focus on cybersecurity, we provide organizations with superior, scalable security and flexibility. Zenitel is the proven, preferred choice for environments requiring crystal-clear audio to ensure the protection of human life, property, assets and the management of critical activities. With interoperability at all levels, we seamlessly integrate with access control, video management and security platforms