

UNDERGROUND PARKING LOT AND FLOORS

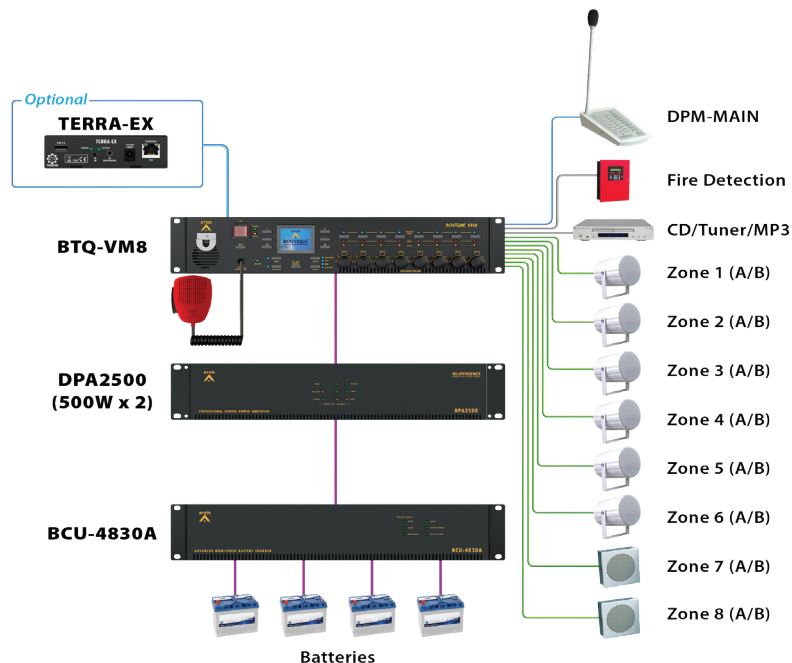
ADVANTAGES

- Compact and economic solution for small to medium sized installations.
- Compliant with EN-54 standard.

The underground parking lot and floors require the installation of a sound system which is capable to broadcast the emergency evacuation in accordance with the EN54-16 standard. The system must perform the audio distribution including messages/music playing and the emergency evacuation on the all parking spaces, stairs and gate access. The parking lots are often subject to the acts of vandalism therefore the speakers are anti-vandal made.



APPLICATION EXAMPLE



SOLUTION

The **BOUTIQUE Public Address System** ensures the sound ambience and multi-zone paging in accordance with the requirements of the EN54 standard. The BOUTIQUE controller **BTQ-VM8** offers 8 monitored speaker zones. The processor embeds powerful DSP (Digital Signal Processor), a digital message player and a monitored fireman microphone. It is capable to monitor the amplifiers, loudspeaker lines and allows to switch to the spare amplifier automatically. Its system control software enables the function to distribute the event scheduler such as informative messages and commercial broadcasting. It uses two external amplifiers (speech and music) for a set of speakers ranging up to 500 W.

The 8 keys **DPM-MAIN** remote paging console allows the distribution of advertisements, the selection of zones/groups of zones, as well as a key general call. These keys can be easily configured via BOUTIQUE web browser interface

This application uses one **DPA2500** which is an external amplifier (speech and music) for all the speakers. It integrates 2 channels of 500 Watts. This amplifier is Class-D digital power with extremely low power consumption (0.2 W per channel) during standby mode, and high amplification efficiency of 90%.

The **BCU-4830A** is a battery charger designed for secured backup and power sharing of BOUTIQUE systems and external power amplifier. It charges lead acid batteries and monitors the battery status simultaneously. It can maximize the capacity utilization of the 4 battery cells and increase their longevity. The main power output of BCU-4830A is 30 A max. and the maximum charging current of BCU-4830A is 3 A.

The **CELL10T/EN** sound projector is suitable for parking spaces, and the **SENTRY6ST/EN** speakers are for stairs and access gates. These speakers are also EN54-24 certified.

The connection with the commercial gallery can be made either via an IP interface **TERRA-EX** or via a link 0 dB. The TERRA-EX is an IP, PoE audio Decoder. It comes with 2 balanced line outputs, 1 relay output and 3 control input contacts making the TERRA-EX an ideal IP solution for any applications that require a simple device to take digitized audio from a network and provide an analogue output with I/O control.

REQUIREMENTS

Messages playing and clear PA evacuation.
Background music.
Scheduler and events (informative messages and commercial broadcasting).
Coverage of 1 to 8 areas, either 2 to 16 speaker lines (A/B).
Paging calls by area and/or general call.
2 x music sources (CD/tuner/satellite radio/audio of the commercial gallery etc.).
Installation of anti-vandal speakers.
Communication with the commercial gallery to which is attached the parking lot.

BASIC CONFIGURATION

1 BTQ-VM8	Compact PA/VA controller with 8 monitored speakers zones
1 DPM-MAIN	8 zones call station
1 DPA2500	2 x 500 Watt Class-D amplifier
1 BCU-4830A	Monitoring battery charger
4 12 V batteries 60 Ah	Batteries 12 V / 60 Ah
1 TERRA-EX	IP Audio Decoder
80 CELL10T/EN	5 Watt antivandal sound projectors
16 SENTRY6ST/EN	6 Watt anti-vandal cabinet speaker

