

# Bosch provides best sound quality for Nurvil Auto Show Room in Tirgu Jiu



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## Industry:

Industrial

## End User:

### Nurvil Auto Show Room

Nurvil is a local car dealer for Volkswagen and Audi that started in 2002 with the first Car Show Room. Today it has 3 show rooms. Two of them are located in Rimnicu Valcea and in Tirgu Jiu.

Nurvil offers complete services around car sales, maintenance and service. It is also one of the biggest car dealers in Romania.

## Business Objective:

The system has to provide a good quality of background music and live speech calls. The background music is used in all show room areas (offices, exposition area, service area, parking area) to create a specific, relaxed atmosphere for the clients. Announcements can be made by using a call station with six buttons. Each button is specified for one zone and sending different, customized messages in every area is possible. These two functions are mandatory in a show room to create a specific atmosphere for the clients.

## Solution:

The system is based on a Plena Solution range, using LBB 1925/10 system pre-amplifier. The installed pre-amplifier provides six zones to the system selected by a LBB 1946/00 six zone call station.

The system runs on a two-channel operation mode, by using two amplifiers LBB 1938/20 with 480 Watts rated power each. The amplifiers provide power for the entire PA system.

The acoustic part of the system consists of three types of loudspeakers, depending on the application and the dimensions of the covered area. In the area around the offices the LBC 3951/11 was installed together with flush mount ceiling speakers, ensuring 6 Watts rated power each. In each office is a volume controller to adjust (increase or decrease) or to stop the background music. In this way the system is very friendly and flexible. The LBC 3491/12 horn loudspeakers are the best solution for outdoor areas like parking slots and the service area. In the service area the background noise is quite high. Therefore the best solution was to install horn loudspeakers to ensure a very good intelligibility level. For these application the directivity of the sound wave is very important. For the show room and exhibition area the acoustic design is based on LS1-UC20-E, 20 Watts rated power pendant spheres. In this area the acoustic has a big importance, due the fact that the walls are made out of



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glass and the level of sound reflection is very high. The background music is ensured by a Bosch professional DVD player with audio and video output. This was the best solution to combine the background music with the end-user commercial clips and entertainment.

A Plena feedback suppression was installed in the system to avoid acoustic feedback. The interconnection with the Fire Alarm System was made possible by using a Plena Message Manager.

## Result:

The Plena Solution offers the best solution for small Public Address projects and the functions meet all the customer requests.

Pendant sphere sound projectors are suitable for speech and music reproduction, generating a very good sound quality for the exhibition area.

By using the feedback acoustic suppression, the sound is at the best level for this application, delivering a good level of speech intelligibility. By using the Plena Message Manager, the PA system increases the safety level of the covered area.

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