



PA/VA

Airport Gdansk

Introduction

Gdansk's Lech Wałęsa Airport is an international airport located 10 km from the city centre with two passenger terminals serving domestic and international flights. About 2.5 million people live in a radius of 100 km which makes it **main airport in Northern Poland** and the third Polish airport behind the Warsaw Chopin airport, and Krakow's Balice. From 22 gates passengers can travel to over 70 destinations. The number of destinations and passengers grow every year reaching 5.4 million in 2019.

Ambient is based near to the airport and Gdansk was the natural choice of partner for the **public address and voice alarm system for the airport**. Terminal T1 was commissioned in 1997 with an Ambient system and today this terminal serves mainly passengers departing for the non-Schengen countries. Terminal T2 was built in 2011 and enlarged in 2015 and Ambient is pleased to have been involved in every step along the way.

In 2019, the Gdańsk Airport started a new investment to **expand Terminal T2** by adding a western pier to provide more gates and expand flights per day and this work is now underway.



1482

total number of loudspeakers

69

number of multichannel amplifiers

40

number of microphones

Challenge

Key technical requirements of the project included:



Integration with Flight Information System



EN 54-16 Voice Alarm for Passenger Safety



Each of 28 Gates with individual **Desktop Microphone Station**

- » Flexible Background Music configurations
- » Message Scheduling for airport safety information
- » 40 Microphone Stations
- » Evolution of airport size and technologies



Solution

For this project Ambient worked with the general and local contractors to **design and deliver the complete system**, including the **acoustic planning for optimum intelligibility** in the large public areas.

Integration with the Flight Information Service was achieved seamlessly and fully tested before being brought into service.

Ambient ensured that the airport design, using dual redundant fibre-optic interconnections between rack rooms has been easy to expand and modify as the airport has grown and changed to meet traveller's expectations.

To get a good **balance of comfort and security**, the system provides background music to public areas from a media server coupled with passenger safety and routine security messages. The scheduling of messages and music zones and volumes can be readily controlled and adjusted from the **Ambient control software**.

The Ambient MULTIVES system is expected to see the airport into the foreseeable future. The combination of high directivity column speakers, pro-audio quality Ambient routers and amplifiers with EASE acoustic modelling optimising speaker placement means that intelligibility in the terminal will more than meet the Voice Alarm requirements whilst delivering **a comfortable and safe journey for more than 5 million passengers per annum**.

Number of loudspeaker lines	138
Total number of loudspeakers	1482
Total loudspeakers power (W)	13159
Number of multichannel amplifiers	69
Number of microphones	40
Number of RACK's	9
Number of PAVA rooms	4
Total area covered by PAVA (m ²)	67500

