

NEXEDGE communication system in the Polsat Plus Arena Gdańsk





Polsat Plus Arena Gdańsk, also known as Arena Gdańsk is a football stadium in Gdańsk with a capacity of 41,620 seats.

It is owned by the city of Gdańsk, and its use is supplemented by the Lechia Gdańsk football club.

The stadium was opened on 19 July 2011 and was built especially for the European football championship, which took place in 2012 in Poland and Ukraine.

On May 26, 2021, the stadium hosted the UEFA Europa League final between Spanish club Villarreal and English club Manchester United. Villarreal won the match 11–10 on penalties.

The stadium in Gdańsk is one of the two facilities in Europe with a hybrid turf. It is a combination of artificial and real turf. The second facility is the Estadio Santiago Bernabéu in Madrid.

For the latest information on the stadium, check out the website: <https://polsatplusarenagdansk.pl/>

Efficient and reliable communications

Polsat Plus Arena Gdańsk is a stadium facility designed and built to organize mass events. During matches and concerts, as well as in the day-to-day operations, such as trips or technical service, an essential requirement is efficient and reliable wireless connectivity.

When organizing mass events there are many key areas to be addressed:

- The fulfillment of many legal requirements
- The needs and requirements of the organizers
- The need to ensure safety of participants.

These and other conditions require the provision of effective and reliable radio communication throughout the facility and its immediate surroundings. The organization and effective planning of a communication system in large stadiums is a serious challenge. Therefore, before selecting the most efficient option, the facility underwent rigorous tests of various radio communication standards, including NXDN and DMR.



NEXEDGE® Digital Case Study

Why Kenwood NXDN?

The test results of the Kenwood NXDN system concluded that:

- This solution provided a very good coverage of the facility, to a noticeably better degree than other solutions such as DMR.
- There were no places with complete loss of radio communication, even in hard-to-reach places.
- The KENWOOD NXDN system unquestionably provided the best sound and speech quality.
- It was the best solution for applications in engineering facilities, in terms of radio parameters, performance and economic aspect.



In 2014 the communication system was commissioned by Biuro Inwestycji Euro Gdańsk 2012 sp. and installed by the specialist team at Elektrit Sp. z o.o.

2022 statement from Biuro Inwestycji Euro Gdańsk 2012 sp.

After 8 years of use, the system works flawlessly, ensuring safety and efficient operation in the facility which is our stadium.

NEXEDGE communication system details

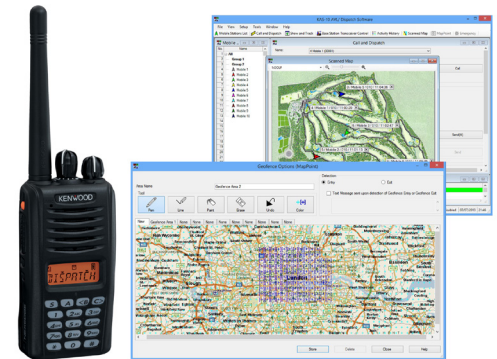
The system features one main antenna on the roof feeding through a duplexer and couplers.

The system itself is configured as a 4-channel trunked NEXEDGE® digital network with a control channel and five operational channels, linked by Kenwood's KAS-10 dispatch and logging software and monitored by a TRX voice recorder, all housed in the purpose-built, temperature-controlled communications room.

The system contains almost 100 radios, mostly NX-320E.

The operator and technical support of the radio communication system is CVM Sp. z o.o. (Complete Venue Management)

<http://cvm-group.pl/>



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