



Public Address Systems



UDE, the best audio solution for your business

More than 30 years of dedication and constant evolution has made us a national and international leader in the design, manufacture and marketing of public address systems

Values:

- We offer quality, reliable and robust products and easy to use.
- We enhance the personal relationship of trust and respect with our clients.
- Teamwork: we promote the personal and professional growth of all the members of our team through methods that boost their training.
- We are environmentally friendly.
- Our commitment with guarantee services and after-sale services of our products.

Mission: To advise and provide support to our clients with the purpose of reinforcing the B2B cooperation and to ensure that our partners feel part of UDE team.

Vision: Our commitment to the future is based on the constant evolution of the R&D department to adapt and improve our range of products to the needs of today's market and our customers. We thank all the companies and customers whose trust has allowed us to fulfil our objectives and envision a future with excellent prospects.



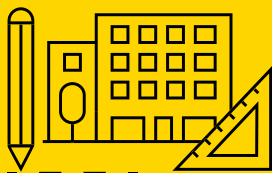
UDE present in over 40 countries

Our main asset is the trust and satisfaction of our customers which, together with the motivation, preparation and experience of our team, has helped UDE to establish a presence in over 40 countries worldwide.

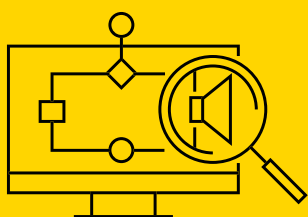
- Adaptability to different markets.
- Extensive network of partners and distributors.
- Pre-sales and after-sales services
- Specific training for our customers
- ... and we continue to grow.

Project Management:

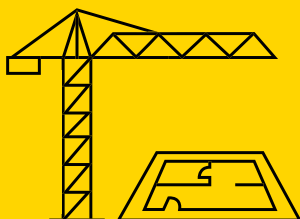
Property



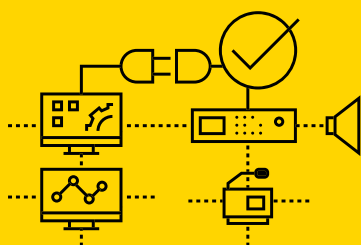
Architect/Consultant



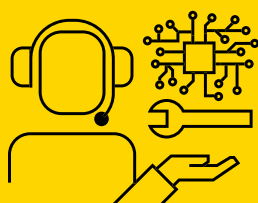
Contractor



System Integrator



After-sales service and guarantee



Our service philosophy

Continuously committed to adding value to our business and supported by our know-how in designing sound systems, UDE also offers its consulting services to customers that require it.

In this way we are involved in every stage of the construction process of any project. From the design of the project with the ownership, advice to consultants, support for installation and commissioning with contractors through to the after-sales services and guarantee of our equipment.

We are passionate about advising our customers in audio solutions from the design of the project through to its commissioning.

Sergio Rovira, *General Manager*

Thanks to the diversity of our product range in the audio field, we can offer our customers solutions for the following applications:

- **Public Address Systems**
- **Voice evacuation**
- **Audiovisual**
- **Intercommunication**

We implement these applications in diverse industries such as:



Education



Hotels



Places of worship



Oil & Gas



Hospitals



Transport



Sports centres



Malls





Systems

IP-based Public Address System

Voice Alarm System - EN 54

DSP Active Line Array Speakers

Conference System

Nurse call system

Windows intercom system

Digital intercom system

Explosion-proof intercom system

Background music system

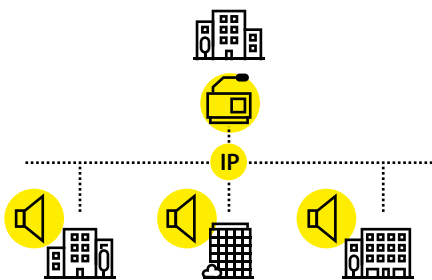
Portable sound units

IP-based Public Address System



The modular IP-based public address system allows the distribution of audio signals using the existing data network infrastructure.

The system is configured and monitored in a decentralised way from any point in the network, facilitating its installation and subsequent maintenance. Ideal for applications such as train stations, schools, government offices, etc.



Main features:

- Scalability
- Decentralisation
- Compatibility
- Integration with SIP telephone switchboards

Referenced equipment:

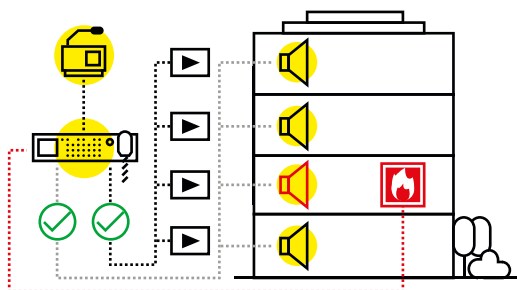
IPU - 100	IP Audio Encoder / Decoder
IPU - 100P	Paging desk with zone selection and touchscreen
IPU - 360	SIP management and monitoring server
IPU - 1025	IP Audio decoder with internal amplifier (25 W)

Voice Alarm System - EN 54



UDEVAC is an integrated Public Address and Voice Alarm system, designed and manufactured following the guidelines of the EN 54-16 standard.

The UDEVAC system offers all the essential features of a public address and voice alarm system, including system supervision, switching of backup amplifiers, loudspeaker lines supervision, management of paging and evacuation messages and a complete control of incidents through visual indicators.



Main features:

- Compliance with the EN 54-16 standard
- Supervision of 6 amplifiers and 6 redundant loudspeaker lines (A+B) per main station
- Integration with fire alarm system
- Scalable to up to 300 zones

Referenced equipment:

- | | |
|---------|-----------------------------------|
| PZ-112 | Paging desk with supervision |
| SLA-112 | Main Station and supervision unit |



DSP Active Line Array Speakers



LINE ARRAY technology is very useful and versatile in reverberant and/or acoustically complex spaces.

The intelligibility of spoken words is undoubtedly one of the most important points when adapting a sound system to the acoustic requirements of any room.

The ACD-3008 / ACD-3012 column loudspeakers have an internal DSP that allows vertical beam control, with the goal of providing a uniform sound field and suppressing the side lobes in the covered area. These column loudspeakers are the perfect solution for applications such as auditoriums, places of worship, multi-purpose halls; among others.

Main features:

Real-time adjustment of all configurable parameters (EQ, volume, bass, treble, beam steering, input sensitivity, etc.)

High level of intelligibility

Adaptability to any installation: L100V and 0 dB

Referenced equipment:

ACD-3008 DSP Active line array Speaker. 240W

ACD-3012 DSP Active line array Speaker. 360W

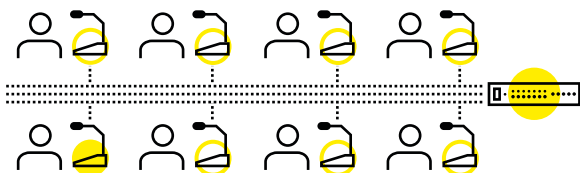
WCD-3000 Configuration module

Conference System



The purpose of the conference system is to enable communication in debating environments such as meeting rooms, courts, congresses, seminars, etc.

The SC conference system consists of table stand or built-in desk microphones and a control and power supply unit, which includes a feedback suppressor module. The desk microphones are managed, amplified and powered by the SC-400 unit which supports up to 60 desks connected on 3 different lines (and up to 120 using additional equipment).



Main features:

Integration with: the room's PA system, equalizer, recorder, pre-amplifier, etc.

Easy programming of the operating mode.

Allows up to 6 simultaneous participants.

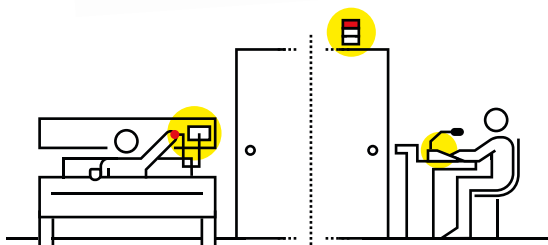
Referenced equipment:

SC-401 Chairman microphone

SC-402 Delegate microphone

SC-400 Control unit

Nurse call system



In order to ensure effective and secure communication between patient and nurse, the UDECOM system has all the necessary functionalities to be the most suitable and competitive solution for intercommunication in healthcare areas.

Our range of intercommunication systems includes the SRD and UDECOM nurse call systems which cover management, communication and call service needs in hospital, clinical and geriatric environments.

In addition, the use of a server enables the monitoring of activities carried out in each room, and the generation of a database of both medical staff and patients.

Main features:

Full-duplex audio communication and presence management

Connection of up to 900 interconnected rooms

IP connectivity with server.

Integration with telephone switchboard

Referenced equipment:

UC-102	Nurse station
UC-104	Room controller
UC-140	Independent bathroom controller
UW-18	Wireless telephone interface
UC-1001	Data management server

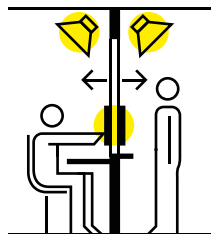


Window intercom system



The IV-5/M system can be used in different applications such as box offices, car parks, information stands, access controls, rail or bus stations, etc.

The main objective is to allow intercommunication in places where the glass of the windows hinders the two-way communication between the person on the inside and the person on the outside. These systems therefore enable acoustic enhancement in intercommunication.



Main features:

- “Hands-free” system
- Easy use and installation
- Notch filters for adjusting to the acoustics of the box office
- Integration with magnetic loops

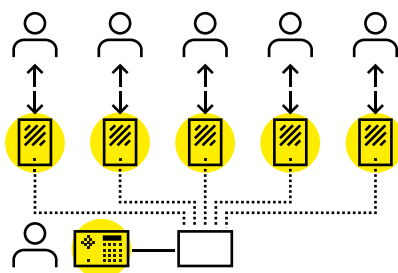
Referenced equipment:

PV-5	Inside microphone
IV-5	Outside microphone
WV-6	Main unit
AP-700	Inside/outside loudspeaker. 3W

Digital intercom system

INTERCOM-200 allows digital intercommunication for applications such as schools, offices and facilities with evacuation requirements for disabled people.

The system manages up to 300 intercommunication points and allows communications to be transferred to both other main stations in the system and the telephone switchboard. Its modular concept makes it easy to expand its capacity adapting the equipment to the needs in each case.



Main features:

- Full-duplex audio communication
- Transfer of calls to other main stations and the telephone switchboard
- Configuration software
- Integration with PA system

Referenced equipment:

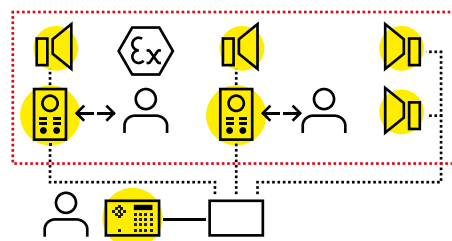
- | | |
|--------|------------------------------|
| IR-404 | Intercom unit |
| ID-200 | Main station |
| IW-18 | Wireless telephone interface |

Explosion-proof intercom system

Public address and intercom system for industrial facilities in areas with risk of explosion.

Oil plants, gas plants, silos, petrochemical companies, etc. have areas with a high risk of explosion, so it is essential to use ATEX certified equipment.

The INTERCOM 500 system is a point-to-multipoint communication system consisting of ATEX certified horn speakers and intercom units with IP 65 degree of protection.



Main features:

ATEX certification

IP 65 degree of protection

Intercom and public address system

Referenced equipment:

IR-62/2

ATEX intercom Unit

SA-30

Driver unit for horn loudspeaker. 30 W. ATEX

Background music system



A compact easy-to-use audio solution designed for the residential sector.

The AV-220 is the ideal background music system solution for low-power applications such as homes, offices, hotels, restaurants, shops, etc. It is a compact system which offers the appropriate power and features for these types of applications. Its easy use and installation makes it a retail solution that can be used and enjoyed by any type of consumer.

Main features:

Powered stereo system. 10W + 10W.

Multiple audio inputs: Bluetooth, USB, SD, Radio and line inputs

Functional design

Built-in and surface mount

Referenced equipment:

AV-220

Amplified background music system.

Portable sound units

In UDE we have a range of portable PA systems for low, medium and high power.

They are stand-alone systems which meet all the necessary requirements to be used in applications such as conferences, sports events, dance classes, gymnasiums, etc. In short, applications in which failing to have a fixed and local sound system can be resolved easily and practically with the use of this portable equipment. In addition, being easy to use makes it an audio solution for any type of consumer.



Main features:

Internal amplifier: 10 W-180 W

Rechargeable battery

Include wireless microphones, music source and audio inputs

Referenced equipment:

WA-700	Low-power portable sound unit. 10W.
UD-360	Medium-power portable sound unit. 50W.
UD-800	High-power portable sound unit. 100W.
UD-980	High-power portable sound unit. 180 W.
SINCRO-100	Portable sound unit for synchronised swimming.



Equipment

Microphones and paging desks

Music sources

Pre-recorded message player

Mixers

Signal processing

Audio matrix and zone modules

Mixing amplifiers

Power amplifiers

Loudspeakers

Volume controllers

Microphones and paging desks

Our range has a wide variety of microphones and paging desks designed for both PA and audiovisual applications.

Hand-held microphones



Surface microphones



Wireless microphones



Desk microphones



Paging desks

Music Sources

The RM-101 allows music playback using different media, such as CD, USB or SD card. The equipment also includes an FM tuner for radio.

RM-101

CD player and MP3 files

USB and SD

FM tuner



Pre-recorded message player

We have different solutions for broadcasting pre-recorded messages which enable, among other things, integration with third-party systems and the automatic playback of messages based on a calendar. We offer two types of equipment to adapt better to project needs.

GD-36

Internal calendar for automatic message playback

EVAC compatibility – 24 VDC input and message monitoring

Integration with fire alarm system

Connection to IP network



GD-1000

Up to 1440 events per day through internal calendar

Front push buttons to play messages

Software management with *MasterSwitch*



Mixers

For both audiovisual applications as well as medium and high power public address systems, our range of mixers has the necessary features to mix any audio input signal in the system and to modify its parameters.

PX-99

8 MIC/AUX inputs / 2 outputs

Individual adjustment of volume, bass and treble

Compatible with WXD-19 feedback suppressor

Enables the configuration of presets through SF-99 software.



PXD-59

5 MIC/AUX inputs

Individual adjustment of volume, bass and treble

Compatible with WXD-19 feedback suppressor

Assigning priorities via remote controls



Signal Processing

Within the audio chain, equipment is optionally used which processes the audio signal or adds new features or improves existing ones.

IT-15

Telephone interface: allows the public address system to be integrated with a telephone switchboard to make announcements from a particular extension.



GR-20

Signal distributor: device used for press passes that makes it possible to take a sound signal and distribute it to 20 independent outputs.



Audio matrix and zone modules

One of the most common requirements for public address systems is the routing of signals or selecting zones to be able to make announcements to specific zones of the installation. Depending on scale of the project we offer different alternatives:

MICRO-400

5 IN / 4 OUT Self-amplified audio matrix

120W Internal amplifier per channel

Includes MP3 Player and Tuner

Connection of up to 4 paging desks (PZ-400)

Priority telephone input



MICRO-800

8 IN / 8 OUT Audio Matrix

Scalable to 32 zones

Connection of up to 2 paging desks (MX-801)

Connection with remote panels for source selection and volume control (MX-888)

Includes EVAC functionalities (Integration with fire alarm system, 24 VDC input, siren playback, etc.)



MICRO-600

Zone module system

Management of up to 6 announcement and music zones

Override function for volume controllers

Connection of up to 6 paging desks (PZ-600)

Integration with fire alarm system



MICRO-1000

Zone module system

Management of up to 10 announcement and music zones

Scalable to 300 zones

Connection of up to 16 paging desks (PZ-1000A)

Integration with fire alarm system



Mixing Amplifiers

The **mixing amplifiers** provide a compact solution for low and medium power installations. We have 2 series:

X5 series

Power from 40 W to 240 W

Robust and economical solution



XD9 series

Power from 120 W to 240 W

Class D amplifiers

Allows insertion of function modules (Feedback suppressor, priority inputs, modulation detection, volume controllers, etc.)



Power Amplifiers

The **power amplifiers** are designed for medium and high power applications to offer greater flexibility and adaptability.

EP series

Power from 60 W to 1000 W

Output channels: 1 or 4

Robust and economical solution



EPD series

Power from 240 W to 1000 W

Output channels: 1, 2 or 4

Class D amplifiers

L100V without transformer – 1U Rack

EVAC compatibility – 24 VDC input



Loudspeakers

We have a complete range of loudspeakers to cover different applications as well as different power requirements. Within each category we offer different models to adapt as best as possible to the demands of each project.

Technical Features:

Low and high impedance

High power range: 5 W - 80 W

Categories:

Ceiling speakers

Wall mount speakers

Column speakers

Horn speakers

Sound projectors and spheres

Garden speakers

Explosion-proof loudspeakers – ATEX



Volume controllers

The main function of the volume controllers is to decrease the signal of one or a set of speakers without interfering with the rest of the system. We have volume controllers for low and high impedance and for different power requirements.

Low impedance: 5 W

High impedance: 5 W or 60 W

They include override function





“ Thanks to all the Companies and Organisations that have entrusted UDE with bringing sound to the world. ”

UDE



Oman College of Management and Technology, **Oman**



Higher Institute of Technology, **Saudi Arabia**



Sanctuary of the Divine Mercy of Our Lord, **Ecuador**



Malaga Cathedral, **Spain**



Campus UPC - Besos, **Spain**



Chimbote Cathedral, **Peru**



US Embassy Sofia, **Bulgaria**



Campus ADNOC, **UAE**



Bahrain Financial Harbour, **Bahrain**

Notes:





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