zenitel
Safety & Solutions

Zenitel Communication Solutions For You

Integrated provider for all your operational & emergency communication needs

zenitel

Freund
Elektronik

Introducing Zenitel Communication Solutions

Zenitel - a world-leading provider for critical communication solutions

With a history of over 75 years, Zenitel remains at the forefront of the critical communications industry, consistently introducing high-quality, intelligent solutions to the marketplace.

Available across EMEA, APAC and the Americas, Zenitel's solutions are designed for high performance and reliability. As a pioneer in high-quality audio, Zenitel's solutions are purpose-built to meet the wide range of our customers' operational and emergency communication needs.

Why choose a Zenitel Solution?

- ✓ Best-in-class audio technology
- ✓ Easy to integrate
- ✓ A wide portfolio of products covers the diverse needs of different segments
- ✓ Excellent build-quality for long-term durability even in the most extreme conditions
- ✓ Cyber Security
- ✓ World-class customer service and support
- ✓ A Zenitel team near you makes it easy to choose & deploy the solution best for you

Communication solutions you can trust to deliver!

Zenitel offers a wide range of solutions designed to meet the growing needs of your business or facility.

Today we offer critical communication solutions for your safety and security needs including:

Clear and robust communication at **Entry Points**	**Perimeter Protection** and surveillance for all types of facilities and installations	Announcements, alerts, and **voice alarms** in public places

Communication for **elevators**	Communication for **emergencies**	Communication for **day-to-day** operational and administrative needs

Clear communication and control at Entry Points of your facility

Today's facility owners need to provide safe, secure, and inviting environments for their employees and visitors. An Entry Point communication solution does exactly that; allowing interaction between a visitor at the Entry Point such as a door or a gate etc. and a receptionist/ employee who is either inside the same building or at a remote location.

A modern-day Entry Point communication solutions should fulfil the following criteria:

✓

Entry Point solutions play an important role at any facility:

The primary role of the Entry Point communication solutions is to enable and manage communication between visitors and the receptionist or other employees. The same system can also be used for securing access to buildings or premises. This makes Entry Point communication solutions an important component in a commercial security system to protect people and property across different industries and applications.

Back door	Entry barrier	Parking entrance	Front door

Overall, a door entry communication solution should:

- ✓ Improve convenience for visitors being a point of contact for the building
- ✓ Increase mobility by enabling employees to operate building Entry Points remotely
- ✓ Enhance security of the building through real-time video and audio monitoring

Common **customer needs and challenges** at Entry Points:

- ✓ High noise levels from vehicles at entry points making it difficult to have clear 2-way communication
- ✓ High cost of deployment and maintenance
- ✓ Capability of a system to automatically detect and alert in case of any incident at an entry point
- ✓ Chances of theft or vandalism of your products or facility
- ✓ Challenges of integrating a new solution with already existing system
- ✓ Concerns with how any new solution will aesthetically fit to the entrance of your facility

Zenitel has a perfect Entry Point solution for you!

Zenitel's Entry Point solutions offer:

A high-quality audio and video experience, both for visitors and the security team

- ✓ Crystal clear voice and video – a clear winner
- ✓ Powerful, onboard DSP cuts through unwanted noise
- ✓ Automatic volume adjustment ensures intelligibility in any environment
- ✓ Our Open Duplex feature's echo cancellation is unparalleled, at up to 95dB, proving Zenitel is a world-leading provider of critical communications

Countless customization possibilities enable entry solutions to be tailored to a customer's exact requirements

- ✓ Zenitel offers a wide range of audio IP kits, which can be used for building your own Entry Point intercom that fits your customer's needs
- ✓ The audio kits support advanced audio features and all modes of operation (ICX-AlphaCom, IC-EDGE, and SIP) making them extremely versatile in any operating environment
- ✓ Check our audio IP kit selection guide today

Devices are built to last, even under extreme weather conditions, which ensures a ensuring high return on investment

- ✓ Up to IP66 rated to withstand extreme weather conditions
- ✓ Up to IK10 rated for high resilience against misuse or damage
- ✓ High MTBF and system availability scores
- ✓ Zenitel and partners offer a standard, two-year warranty on all our products

Ease of integration with many video management and access control systems allows you to see and hear your building vicinity in real-time from a single terminal

- ✓ ONVIF compliance makes integration with third-party systems easy
- ✓ Easy to install
- ✓ Listen-in only feature allows you to view and hear silently

Featured products

Turbine Intercom Series
Turbo-charge your security team with the proven power of our Turbine Intercom Series. It comes with fantastic features, functionality, a robust design and high interoperability.

Zenitel IP Kits
Build your own customized solution Entry Point solution or empower an existing one with our wide range of IP kits. Gain an edge over the competition with their numerous advanced audio benefits .

Operator Station Solution
Our touch-based operator stations are a perfect pick for modern buildings, helping your receptionist and security personnel to manage Entry Point communication with a single click.

Featured segments

For further details on the applications of our Entry Point solutions, visit our website: www.zenitel.com

Corporate and Public sector	Retail and Logistics	Hospitality

Protect the perimeter of your facility and your valuable assets within it

A reliable security system is essential when it comes to securing sensitive facilities & infrastructure. Having sensors and video cameras alone might not be enough for the security teams to intervene and to handle a developing situation. This is where audio plays its part. With audio on your side, you can warn an intruder or a trespasser and communicate in emergency situation, all around the perimeter.

A modern-day Perimeter Protection solution offers:

- ✓ Detection of a security threat – accomplished with the use of technologies such as video cameras, sensors, analytics and more.
- ✓ Proactive intervention – the Perimeter Protection solutions helps control room teams to take precautionary actions such as automatic dispatch of announcements to warn off trespassers
- ✓ Post-event analysis – to support post-event analysis, the solutions offers an incident management system that consists of audio and video recordings of the incident

Why select Perimeter Protection solutions from Zenitel?

Often, sprawling industrial facilities, correctional facilities and transportation hubs require stringent perimeter management and protection. Zenitel's IP loudspeakers and Public Address & Voice Alarm solutions ensure smooth operations by providing security teams with the flexibility and control to dispatch announcements, passenger information, alerts with the possibility of two-way communication, thus helping security teams protect the facility, assets and staff against threats.

Common **customer needs and challenges** with Perimeter Protection:

- ✓ Automatic detection and real-time view of any security threat to the building
- ✓ Active security mitigation with audio and video to enable proactive intervention
- ✓ Manage or limit access to the building area
- ✓ Assist police or other authorities with post-event analysis

Zenitel has a perfect Perimeter Protection solution for you!

Zenitel's Perimeter Protection solutions offer:

Automatic detection of a security threat

✓ Our IP speakers and intercoms have built-in microphones for proactive perimeter monitoring – they are always on, ensuring continuous, round-the-clock protection!
✓ Sensitive, built-in microphones work with a comprehensive audio analytics system, reliably alerting security teams to gunshots, breaking glass, car alarms, and verbal aggression
✓ A customizable Voice Activity Detection feature enables our IP speakers automatically alert security guards of a security threat by monitoring the surrounding security fence
✓ Our intercoms can be configured to send alarm notifications during out-of-office hours, should it detect any abnormally higher sound at the door

A 360° view on the unfolding security threat

✓ Zenitel offers a wide variety of integrated solutions that facilitate the transmission of sound and video to almost any security system
✓ Our integrations are based on standard and widely accepted protocols such as ONVIF, SIP, SNMP, which means that you can view and hear a security incident from third-party applications such as VMS client
✓ Zenitel's VS-Operator allows for more remote management of the system – offering a clear visual overview with a layout that can be adapted according to your individual needs

Active threat mitigation and deterrence

✓ Our IP speakers and intercoms come with built-in storage for storing pre-recorded audio messages, allowing staff to trigger warning messages, or issue live instructions if an intruder has made an intrusion , even intervening proactively via the Public Address system, deterring criminal behavior from the safety of the control center
✓ Integrated with a Video Management System, cameras and speakers can be positioned together around buildings and fence lines to deter unwanted activity

Incident analysis

✓ Zenitel gives you the flexibility to send audio and video streams from our intercoms and IP speakers to third-party recorders over standard interfaces such as ONIVF
✓ Alternatively, you can use Zenitel's VS-Recorder software to centrally store audio, video, and other incidents

Featured products

Zenitel's Public Address & Voice Alarm Solution

Zenitel PAVA solutions combine high-performance audio with modular design, built-in redundancy, and great flexibility, which results in efficient and sustainable integrations. **Keep everyone informed, protect your facility, protect people.**

Zenitel IP Speaker Series

Combining the unrivaled audio of our Turbine platform with the broadcast potential of Public Address speakers, our IP speakers offer superb audio quality with Talkback, Ambient Listening and other features to enable your security team to act in real time and communicate clearly.
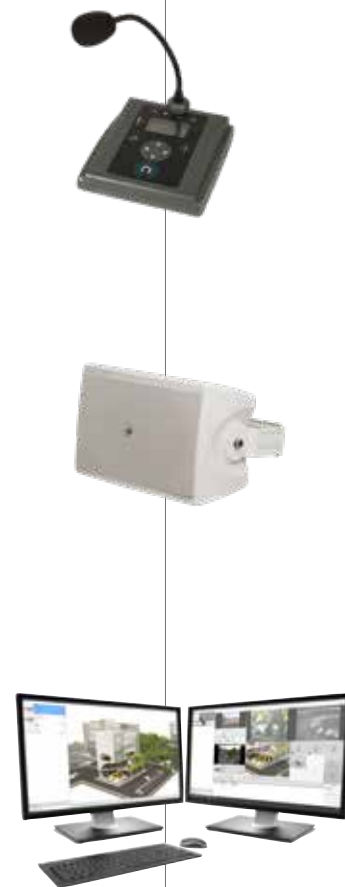
Zenitel VS-Operator and VS-Recorder

VS-Operator is perfect for security use in a control room environment; providing security personnel with a clear overview that can be reconfigured to provide flexible coverage of any setup.

The VS Recorder software is a fully featured IP-based audio recorder with additional support for video recording. The software is flexible in its configuration and only required features need to be licensed.

Zenitel Integrations

Zenitel offers a wide variety of integrated solutions, which enable you to add audio to almost any security system.

Featured segments

For further details on our Perimeter Protection solutions, visit our website: www.zenitel.com

Corporate and Public sector	Correctional facilities / Prisons	Transportation

Address and alert visitors at public places in real time, whenever and wherever

Communication is essential for smooth running operations. A Public Address and Voice Alarm (PAVA) system provides teams with communication capabilities to manage both day-to-day processes and emergency situations.

Some of the common uses cases for a Public Address and Voice Alarm system include:

- ✓ Operational public address for paging staff and informing passengers
- ✓ Triggering warning messages or issuing live instructions to potential intruders
- ✓ Critical life safety communication such as voice messages directing people away from risks such as fire

The power of Public Address and Voice Alarm solutions:

A combined Public Address (PA) and Voice Alarm (VA) solution lets you communicate clearly with your audience while reducing the cost of ownership.

While PA and VA systems were once separate, technological advancements and the drive for reduced cost of ownership have triggered the consolidation of these two systems.

Common **customer needs and challenges** encountered with Public Address and Voice Alarm Solutions:

- ✓ High cost of ownership
- ✓ Ensuring that the announcements are heard and understood by the audience anytime and in any situation
- ✓ 24x7 operation with next to zero downtime
- ✓ Manage multiple communication and security systems under one roof
- ✓ Lack of space/ limited space for the system
- ✓ Cybersecurity challenges

Zenitel has a perfect PAVA solution for you!

Zenitel's Public Address and Voice Alarm solutions offer:

Reduced total cost of ownership

- ✓ Our solutions can be utilized for both PA and VA applications, significantly reducing costs
- ✓ Our PAVA system is fully certified for voice alarm standards such as EN54
- ✓ Zenitel products integrate seamlessly into other communication systems such as telephony and intercoms over open interfaces, allowing operators to manage their system from a central point

24x7 operation with next to zero downtime

- ✓ Integrated features including redundancy, dual power supply, Ethernet ports and hardware bypass mode, when paired with redundant architecture, deliver a truly maintenance-free solution
- ✓ Our amplifier modules are hot-swappable which results in zero downtime

High-fidelity audio for challenging environments

- ✓ All our PAVA product lines feature professional quality DSP and the full-range frequency response that is demanded by PA applications
- ✓ Vipedia and Integra systems can be configured via easy-to-use tools that offer a range of DSP features, such as AVC, Time alignment, Compression and EQ to enable precise, high-quality sound in difficult environments

Keeping everyone informed with low profile solutions

- ✓ Thanks to its low-profile enclosure, Integra can be wall-mounted anywhere and doesn't need to be inside a dedicated equipment room or control center
- ✓ Operational Public Address, Security, and paging announcements help keep everyone informed
- ✓ Our PAVA systems allow you to issue event-driven or pre-recorded messages and stream background music or audio files as required

Featured products

Zenitel's Public Address & Voice Alarm Solution

Combining high-performance audio with a modular design, built-in redundancy, and great flexibility, our Public Address and Voice Alarm solutions promise to help you lower operational costs while delivering scalability. It's an obvious selection for those looking for an efficient and sustainable safety and security solution for their facility.

- ✓ Keep everyone informed
- ✓ Protect your facility
- ✓ Protect people

Zenitel IP Speaker Series

Our Next Generation Intelligent IP Speaker Series is a family of IP Loudspeakers that combines the unrivaled audio of our Turbine platform with the broadcast potential of Public Address speakers.

Superb audio quality together with Talkback, Ambient Listening and other features enable your security team to act in real time and communicate clearly in any situation.

Featured segments

For further details on the applications of our PAVA solutions, visit our website: www.zenitel.com

Industrial	Transportation	Corporate and Public sector

Safer elevators with our two-way intelligent communication solutions

Elevators are essential modes of transport in modern multi-level facilities. Elevator Communication solutions provide a two-way interface between people using the elevator and security staff. In the event of a lift failure or other security situation, building employees and guests need to be able to communicate with the security personnel. This is now a mandatory requirement for elevator solutions throughout Europe and the Americas, as well as in many places in Asia. This same communication solution can also be used for making announcements or issuing warnings to people inside the elevator.

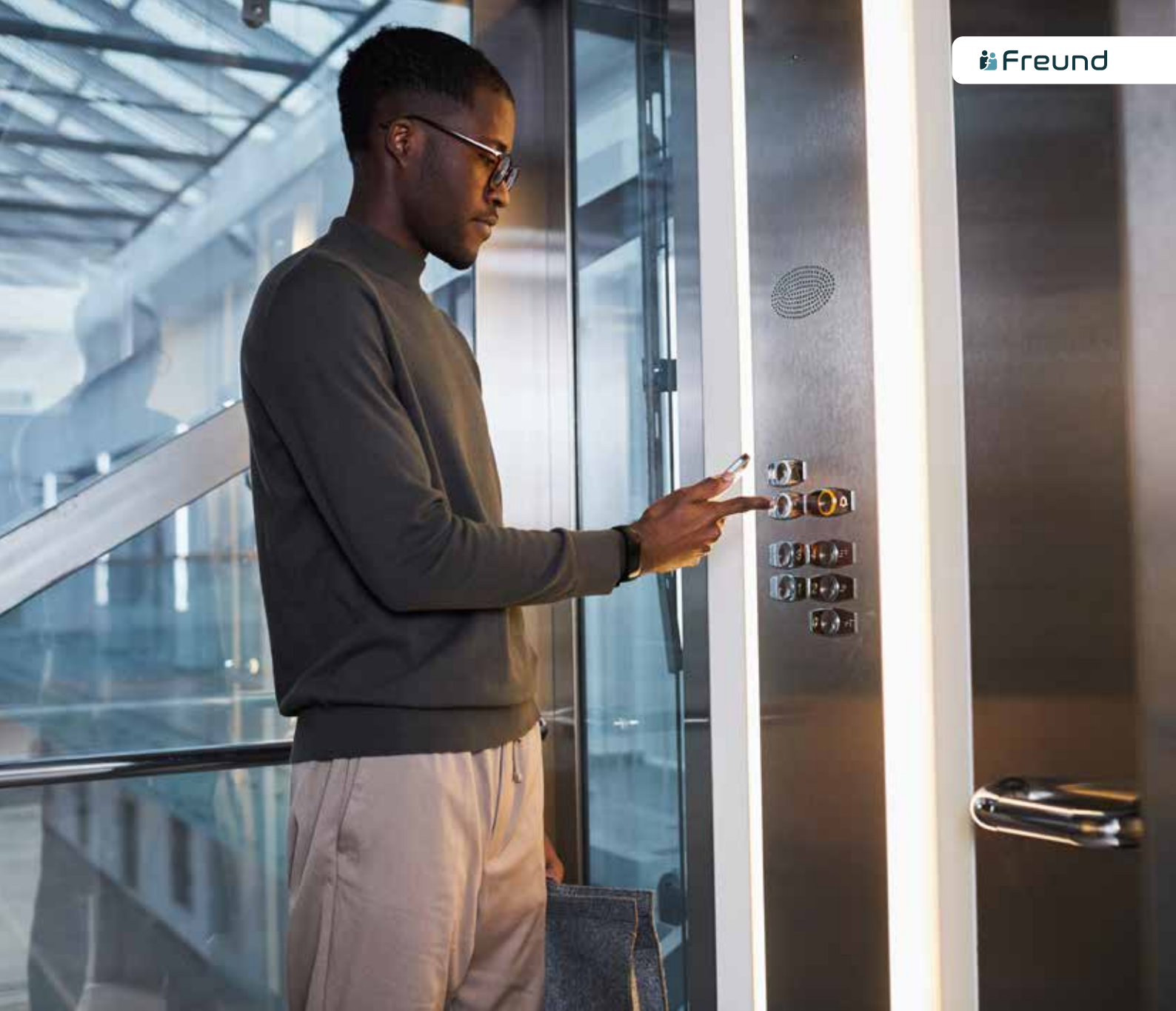### A modern-day Elevator Communication solution is expected to deliver the following elements:

- ✓ Two-way audio communication
- ✓ Highly customizable
- ✓ Integration with two-wire systems
- ✓ Integration with push buttons/camera
- ✓ Induction loop integration possibilities
- ✓ Redundant battery backup
- ✓ Integration with access control

Connectivity between shaft and machine room (single shaft and multi-shaft solutions)

- ✓ Two-wire connectivity between cabin/shaft to machine room
- ✓ Carries IP/Analog communication to alarm center

Connectivity with alarm central

- ✓ Wireless connectivity using LTE
- ✓ Possibility to also connect with legacy wireless solutions such as 3G
- ✓ PSTN / ISDN connectivity

Common **customer needs and challenges** encountered with Elevator Communication solutions:

- ✓ Compliance with international building codes and other national standards
- ✓ Ability to customize solution to blend aesthetics with elevator design
- ✓ Reliability
- ✓ Two-way communication between lift cabin and elevator operating team
- ✓ Cost of migration to IP technologies
- ✓ Remote monitoring capabilities for real time surveillance
- ✓ Solution capacity to meet both emergency and day-to-day operational requirements

Zenitel has a perfect Elevator Communication solution for you!

Zenitel's Elevator Communication solutions offer:

Countless customization possibilities that harmoniously blend with elevator aesthetics

- Zenitel offers a wide range of audio IP kits, enabling you to build your own elevator communication solution
- The audio kits support advanced audio features and all modes of operation (ICX-AlphaCom, IC-EDGE, SIP), making them extremely versatile in any operating environment

Smooth migration to IP technologies

- Thanks to our two-wire-to-IP technology (Flowire), connect the intercom in the cabin to the machine room, without replacing existing two-wire cables
- The Flowire converter enables Ethernet to run on the same two wires as power, providing simpler cabling and opens for longer cable hauls
- The Flowire converter can also power Ethernet devices that are attached to it, such as the IP kit and CCTV cameras

A 360° view of your elevator for complete situational awareness

- Simultaneous live audio, video, and monitoring of alarms provides complete situational awareness of your elevator
- Zenitel offers a wide variety of integrated solutions, which enable you to send sound and video to almost any security system
- Our integrations are based on standard and widely accepted protocols such as ONVIF, SIP, and SNMP, which means that you can view and hear a security incident from third-party applications such as VMS client
- When our elevator intercom solution is integrated with an audio or video analytics system, you receive the automated triggers of any security incident such as gunshots, breaking glass, and verbal aggression

Featured products

Zenitel IP Kits
Build your own customized solution Entry Point solution or empower an existing one with our wide range of IP kits. Gain a competitive edge with the many advanced audio benefits they offer.

Zenitel Two-wire-to-IP technologies
Flowire is based on the HomePlug AV power line communications specification, only using 24 - 48 V DC as the medium. It is a network bridge between Ethernet and a PLC link.

Zenitel ICX-AlphaCom Core
ICX-AlphaCom Core provides all your communication needs in a single system. It is easy to extend functionality and system size and designed to be future proof. The system can be tailored to support applications of almost unlimited specificity and complexity.

Featured segments

For further details on our Elevator Communication solutions, visit our website: www.zenitel.com

Corporate and Public sector	Retail	Hospitality

Reliable & intelligent communication in emergency situations

Facilities & communities are faced with the continual problem of vandalism, assault, and attacks, not just at night, but increasingly during the day. In addition to these security threats, businesses must be prepared to deal with a wide variety of other emergency situations, such as active shooters in the building, fire incidents, and adverse weather conditions such as earthquakes or flooding.

Responding to an increased demand for active intervention:

A communication solution plays an important role in responding to an emergency situation. Even though existing camera systems can help to evaluate situations, there is a growing demand for communication solutions such as intercoms that enables security teams to take an active role to the situation.

A modern-day emergency communication solutions brings:

- ✓ Two-way audio and video communication capability across facilities to mitigate and respond to security situations
- ✓ Ability to address and alert the public, staff, and visitors of an emergency
- ✓ Seamless integration with other systems that can inform about a developing situation with police, medical or fire departments

Common **customer needs and challenges**
with communication in emergency situations:

✓ Ability to see, hear and communicate in real-time with an individual in danger or other emergency situations
✓ Ability to offer communication/escalation possibilities for individuals who are in distress
✓ Having a reliable solution that can be trusted in all situations and environments
✓ Specs of a solution that can meet local and, where needed, international regulatory/building codes requirements
✓ Ability to meet the needs of individuals with disabilities

Zenitel has a perfect Emergency Communication solution for you!

Zenitel's Emergency Communication solutions offer:

Customization possibilities to meet your precise needs for security at entry points

- ✓ A wide range of audio IP kits, which can be used for to place intercoms at building entry points, to perfectly suit your needs
- ✓ The audio kits support advanced audio features and all modes of operation (ICX-AlphaCom, IC-EDGE, SIP), making making them extremely versatile in any operating environment

Devices are built to last, even under extreme weather conditions

- ✓ Up to IP66 rated to withstand extreme weather conditions
- ✓ Up to IK10 rated for high resilience against misuse or damage
- ✓ High MTBF and system availability scores
- ✓ Zenitel offer a standard, two-year warranty on it's products

Integration possibilities with most video management and access control systems that allow you to see and hear your building vicinity in real-time from a single terminal

- ✓ ONVIF compliance makes integration with third-party systems easy
- ✓ Easy to install
- ✓ Listen-in only feature allows you to view and hear silently
- ✓ A host of accessibility options with disability requirements in mind
- ✓ Help points with built-in hearing induction loop
- ✓ Assistive calling for visually impaired people with custom-designed front plate with braille and engraved symbols
- ✓ Easy integration with third-party hearing loop for PA and VA applications

Featured products

Emergency help points
Designed according to Disability Act requirements, our solutions for help points such as TCIS-C1, ECP-TD6 and more offer Braille, induction loop indicators and indicators for both visually and hearing-impaired people.

Featuring our exclusive Turbine technology, our solutions deliver amazing sound pressure levels with automatic volume adjustment.

Featured segments

For further details on our Emergency Communication solutions, visit our website: www.zenitel.com

Healthcare	Transportation	Education

Scalable communication solutions to run efficient day-to-day operations

Typical office communication solutions allow two-way interaction between employees within the company. In addition, with the integration to external systems such as iPBX, the same system can also be used for connecting staff to the outside, such as receiving customers or visitors.

Benefits of office communication:

The real benefit of office communication comes when the audio system is fully integrated with door communication and help points. With hybrid work arrangements, the need for mobility has become crucial. i.e., staff working in their home office still require the same level of services as if they were working in the office.

Common customer needs and challenges with day-to-day operational communication:

- ✓ Two-way audio and video communication for day-to-day operations across the facility
- ✓ Maintaining connectivity and communication for staff while on the move
- ✓ Advanced call features for demanding office environments
- ✓ Ability to be a one-stop-shop for all office communication needs

Zenitel has a perfect day-to-day communication solution for you!

Zenitel's solution offers:

Integrated communication features and flexible setup to streamline operations

✓ Advanced and integrated communication features with Zenitel's ICX-AlphaCom platform
✓ End-to-end security solutions that manage door entry, emergency help points, elevator, and office communication from a single system
✓ Flexibility with a single device: door, help point and office communication
✓ Option for staff to answer intercom calls and open the doors from their desktops or on the move using Zenitel's integration with Microsoft Teams

Featured products
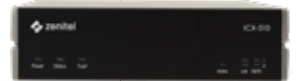
Zenitel Operator Station Solution

Our touch-based operator stations are ideally suited to modern buildings, allowing your receptionist and security personnel to manage entry point communication with the single click of a button.

Zenitel ICX-AlphaCom Core

ICX-AlphaCom Core provides all your communication needs in a single system. It is easy to extend functionality and system size, and it is designed to be future proof. The system can be tailored to support applications of almost unlimited specificity and complexity.

Microsoft Teams – Zenitel Integration

Thanks to the flexibility of the integration with Microsoft Teams you can answer audio intercom calls and open the doors from within the premises via your desktop. Or, if you are on the move, via the app on your phone.

Featured segments

For further details on our Day-to-day Communication solutions, visit our website: www.zenitel.com

Corporate and Public sector	Hospitality	Education

Zenitel solutions are universally recognized, with millions in use around the globe

Today, you can find Zenitel solutions across entry points at corporate offices, retail centers, warehouses, school, universities, hospitals, parking lots, highways, tunnels and many other industrial and high-security facilities.

Zenitel's solutions have earned a reputation of being high quality, intelligent and easy to integrate with all other safety & security systems, guaranteeing that customers and clients **can hear, be heard, and be understood, every time.**

Visit us at www.zenitel.com to find out more or connect with our teams that are waiting to help you provide a solution to your communication challenge!

Why **Zenitel?**

Zenitel is well positioned to drive the future of intelligent critical-communication solutions. Through our portfolio of IP products & solutions, with built-in intelligence and a focus on cybersecurity, we provide organisations with superior, scalable security and flexibility. Zenitel is the proven, preferred choice for environments requiring crystal-clear audio to ensure the protection of human life, property, assets and the management of critical activities. With interoperability at all levels, we seamlessly integrate with access control, video management and security platforms.

CENTER OF EXCELLENCE

www.freund.dk