



COMMEND
**TRUSTED MARITIME
COMMUNICATION**

IP-Communication Solutions

TRUSTED. COMMUNICATION. ALWAYS.

WHY COMMEND?

TRUSTED MARITIME COMMUNICATION SOLUTIONS



CARGO VESSELS



OIL TANKERS



WORK BOATS



INLAND VESSELS

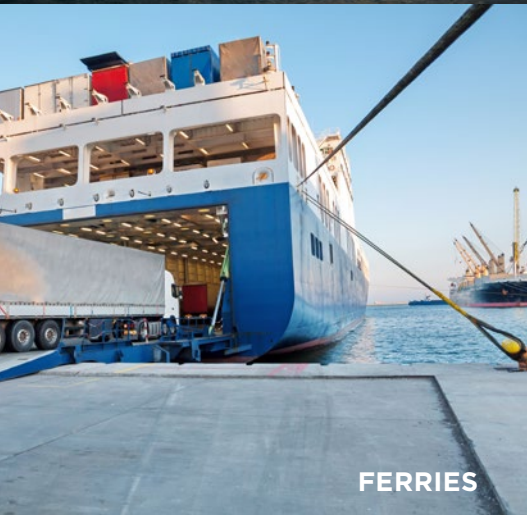
BECAUSE EVERY WORD COUNTS

Because every word counts, everything speaks for solutions from Commend. Because every second may be decisive, people need a technology which not only functions, but is 100 percent reliable – in all situations, 24 hours a day.

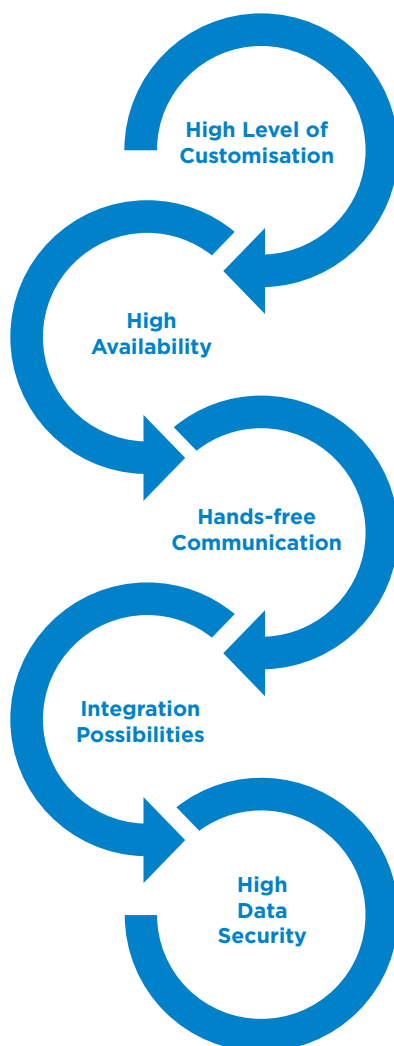
For this reason, we continue each day to develop and work on intercom solutions which are better and simpler but which at the same time open up new possibilities. Solutions which not only serve their purpose, but which also provide a feel-good factor. The feeling of security and trust.



LNG CARRIERS



FERRIES



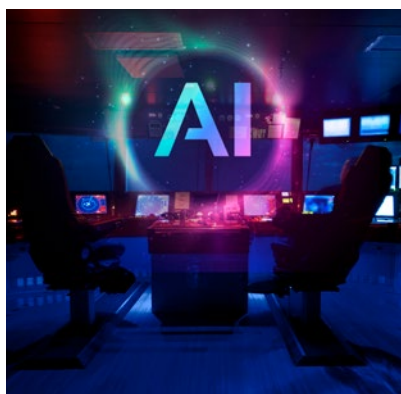
... the solution's flexibility in terms of design and programming makes sure that the system totally fits the customer's specific requirements.

... ensures reliable onboard communication (maritime certified products).

... with high volume and perfect speech intelligibility also in noisy surroundings.

... to integrate other systems (like PAGA, mobile radio, or control panels).

... protects against attempts at tampering and ensures proper operation.



AI CLEANS VOICE FROM NOISE

Our AI Cleans Voice from Noise technology is the game-changing solution to the background noise problem. Using an AI-based technique known as 'deep neural networks', the solution is able to eliminate background noise and enhance the voice signal to an amazing quality level. The result is similar to direct face-to-face communication in a noise-free environment.

ABOUT COMMEND

MARKET AND TECHNOLOGY LEADER ON SHORE TAKES OFF ON THE HIGH SEAS



1971

Founded in Austria



23

Subsidiaries & Partners
worldwide



60+

Operating in more
than 60 countries



550+

Employees worldwide



ISO 9001:2015

Quality Management



ISO 14001:2015

Environmental Management
Systems



ISO 27001:2022

Information Security
Management



IEC 62443-4-1

Cyber Security



DESIGNED AND BUILT IN AUSTRIA

From the development and design of our products to the selection of individual components and our quality assurance processes – everything is dedicated to ensuring a long product life for the end user. The result are products with an excellent ROI thanks to their long lifecycle.

Our production facilities in Salzburg (Austria) are the birthplace of the stuff that Intercom dreams are made of. Millions of electronic components are brought together to create products that satisfy our clients' demands and deliver excellent audio quality that makes their users prick up their ears.



SECURE PRODUCT DEVELOPMENT LIFECYCLE ACCORDING TO IEC 62443-4-1

We are committed to providing our customers with products, systems and services that thoroughly address cyber security. At Commend we are working continuously to fortify our systems, products and solutions against cyberattacks and to provide multi-level protection for network-based services.

Commend International is ISO 27001 certified – Information Security Management.

trust.commend.com



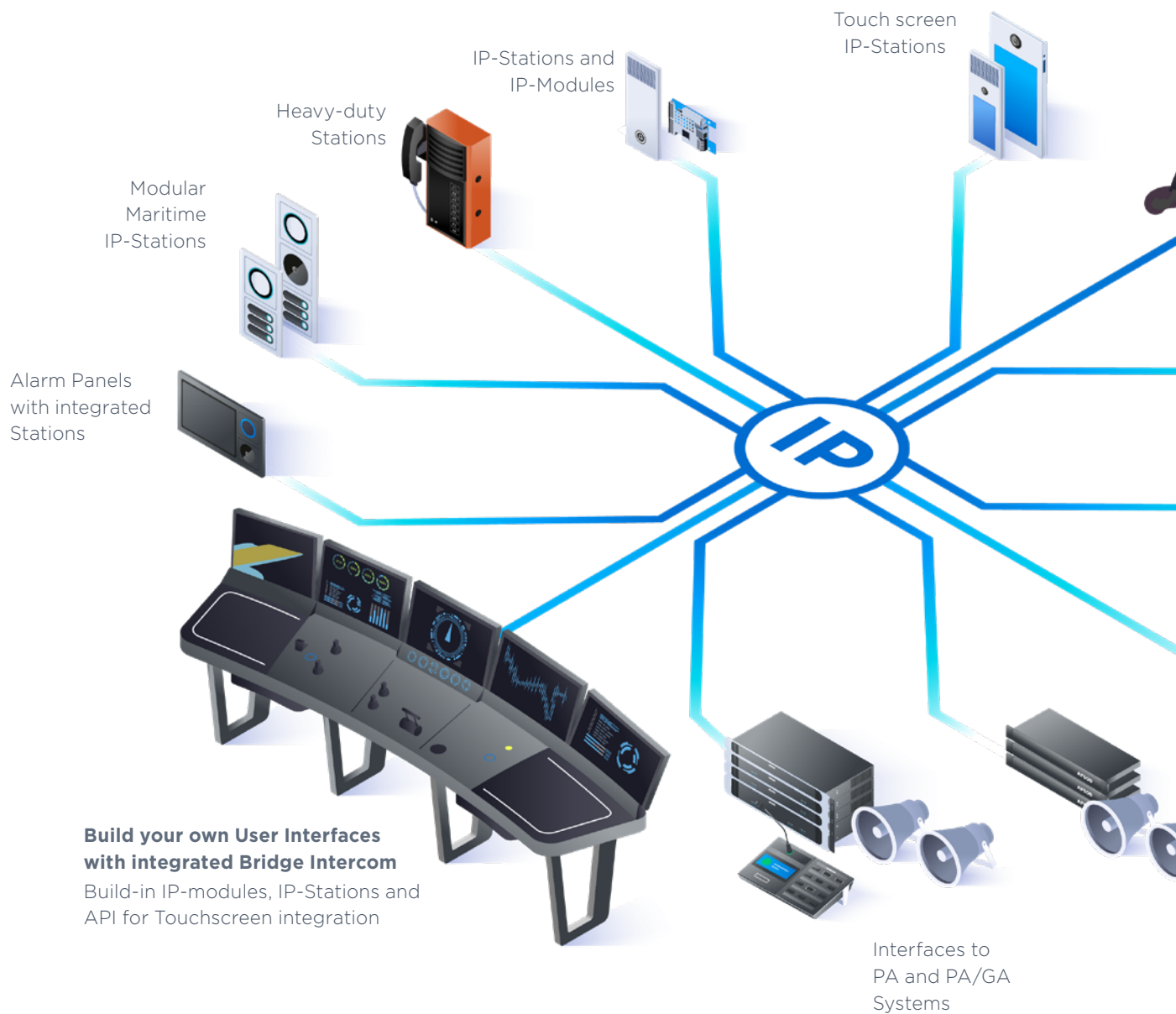
MORE THAN 50 YEARS OF EXPERIENCE

Since its founding in 1971, Commend has grown from a small family-owned business into a global leader in Integrated Intercom Systems. Today, our unique solutions help to ensure the protection of people, property and valuables throughout the world. Commend Intercom Solutions have proven highly successful in many industry sectors.



ONE PLATFORM

MARITIME IP-COMMUNICATION



HIGH AVAILABILITY – SECURING COMMUNICATION

Commend Intercom Systems deliver ultimate reliability for maritime communication. Whether coordinating daily operations or managing emergencies – our solutions ensure operational efficiency and crew safety on every vessel.

Our robust systems are designed for harsh maritime environments and ensure that every important call gets through and messages reach their recipients – providing safety when it matters most. Trusted. Maritime Communications. Always.

- Server monitoring and redundancy ensure the required high availability.
- Line monitoring checks the connections between the Intercom stations and the server.
- The Intercom stations run continuous tests on the signal path between their loudspeaker and microphone.
- Staff are immediately notified in the event of a problem.



BETTER TOGETHER INTEGRATIONS



BOSCH



bachmann.



PUBLIC ADDRESS

Extra high-volume capacity and voice speech quality enable users to inform their staff on site. Additional Intercom stations on their premises make two-way communication possible, which substantially enhances operational activities.

Choose from Commend PA solutions and integration options of PA and PA/GA systems from leading manufacturers like **PRAESENSA Public Address & Voice Alarm system from Bosch.**

- Space- and weight-saving with PRAESENSA's compact amplifiers and system controller
- Fail-safe public address and voice evacuation solutions with integrated redundancies
- Highest speech intelligibility based on interfacing with IP-based DANTE audio standard
- **Seamless integration of modules into the bridge as intercom and PA stations**
- Commend uses standard SIP features for easy but secure audio connections and integration other on-board systems

CYBER SECURITY

Commend Defense In-Depth-Strategy is based on the principle of ensuring IT security in all areas (environments, design, implementation and integration) to eliminate vulnerabilities and attack vectors to ensure Security on the levels Device, Data, Application and Platform.

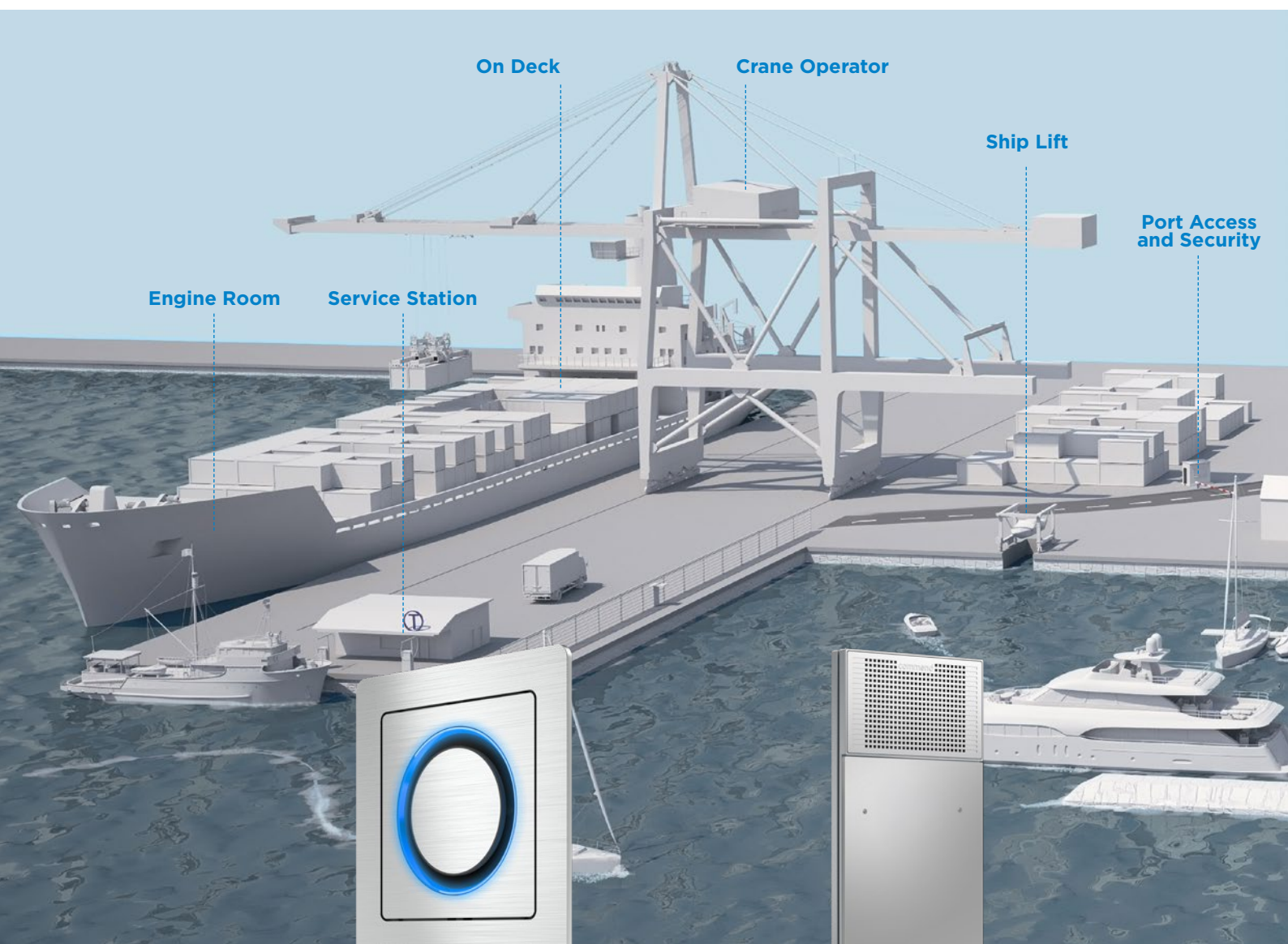
Regular internal and external security testing procedures (penetration testing) guarantee that our systems consistently meet the highest industry standards for cyber resilience.

MOBILE RADIO

The intercom system can be integrated with a mobile radio solution to form a unified communications platform.

- Make announcements from mobile radio handsets to Intercom stations.
- Enables communication from Intercom stations and to the whole mobile radio network.
- Modules can be integrated into the bridge and can be used for communication to Intercom stations and mobile radio without the need to have a separate mobile radio device.

MARITIME SOLUTIONS USE CASES



Modular IP-Stations

Combination of different sizes of Intercom stations and different modules to suit any requirements.

IP-Stations

Robust one button call stations.



From Communication Panels to Integrated Bridge Intercom Solutions

From module to GUI integration via API.



Yacht Access

Mobile Clients

Cruise Ship Bridge

Cruise Ship Cabin



Heavy duty IP-Maritime Stations
Masterfully reliable in the roughest of environments.



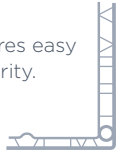
Touchscreen IP-Stations
Customisable screens according to the applications.

HEAVY DUTY IP-MARITIME STATIONS

SERIES MR5

Durable double-walled construction made from high-performance polycarbonate

- Corrosion-proof
- Orange signal colour ensures easy visibility for optimum security.
- IP66, IK10



Robust membrane keypads for heavy-duty applications

Large buttons ensure easy, reliable operation even when wearing protective gloves. What is more, the stations are easy to clean (resistant against chemical detergents) and mechanically hard-wearing.

IP-Connectivity

Communication over SIP

Perfect speech intelligibility and extra-high volume

Powerful enough to overcome interfering noise and Intelligent Volume Control (IVC) adapts the volume to ambient noise conditions.

Connection possibilities

- Separately placed loudspeakers
- Versions for connection of handset or headset

Redundant power supply

with Fall Back Mode

Inputs/Outputs

Monitoring inputs (e.g. sensors) and controlling outputs (e.g. doors)

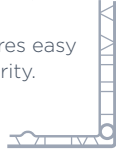


MADE FOR THE ROUGHEST ENVIRONMENTS

SERIES EX 7000

Durable double-walled construction made from high-performance polycarbonate

- Corrosion-proof.
- Low weight compared to other industrial heavy-duty stations, especially Ex-stations.
- Orange signal colour ensures easy visibility for optimum security.
- IP66, IK10.



Reliable, whatever the weather

Developed to withstand extreme ambient conditions.

Direct connection, power supply and control of flashing warning beacons

Additional connection options for monitoring inputs and controlling outputs (gate controls, etc.).

Absolutely watertight and dustproof microphone

Can be configured as a noise cancelling microphone.

Extra-high volume capacity up to 118 dB

Powerful enough to eliminate the need for external loudspeakers in most applications. Integrated loudspeaker and Class-D amplifier provide a sound pressure level of up to 118 dB/0.3 m (108 dB/1m).

Direct connection of separately placed loudspeakers

Dedicated powerful Class-D amplifier for optional external loudspeaker with up to 20 Watts output capacity for PA and paging.

Robust membrane keypads for heavy-duty industrial applications

Large buttons ensure easy, reliable operation even when wearing protective gloves. What is more, the stations are easy to clean (resistant against chemical detergents) and mechanically hard-wearing.

Three keypad layouts

Full keypad / Party-Line Conference calls / Direct dialling



**GAS
IIC**

Highest Explosion Hazard Group

II 2G Ex db eb ib IIC T6 Gb **Zone 1**

II 3G Ex db ec ic IIC T6 Gc **Zone 2**

T6

Highest Temperature Class

**DUST
IIIC**

Highest Explosion Hazard Group

Zone 21 **II 2D Ex tb ib IIIC T80°C Db**

Zone 22 **II 3D Ex tc ic IIIC T80°C Dc**

T80°C

Highest Temperature Class



Version with
loudspeaker



Version with
handset

BRIDGE SOLUTIONS

BUILD YOUR OWN USER INTERFACES WITH INTEGRATED BRIDGE INTERCOM

BRINGS INTERCOM FUNCTIONS AND MORE TO YOUR FINGERTIPS ON THE SCREEN

An API enables convenient touch screen integration of Intercom and communication functions to keep the user interface clean and tidy on all the master and sub-stations, both on the bridge and off.



ON COURSE FOR INTEGRATED ON-BOARD COMMUNICATION

A ship's bridge is its central command and control centre – its nerve centre, where countless functions and controls converge. To keep everything running smoothly on the bridge, a unified user interface is the proven state of the art. Instead of sailing against the wind with separate controls for all the various systems, it ensures plain sailing with all controls right at the captain's fingertips.

MODULE INTEGRATION

On-board communication is one of the most crucial functions on this integrated control centre. Commend gives you all the tools to ensure 'seaworthy' communication. From Intercom to PA, everything interfaces seamlessly for a superior communication experience, even against background noise from engine, wind or waves. With functions from zone broadcasting to radio support, virtually any on-board communication need is catered for.

Modules such as loudspeakers, handset, gooseneck microphone and call button modules all blend in smoothly with the ambient design.

To add even more flexibility to your custom layouts and integrations, Commend also supports the Open Bridge Design system.



COMMUNICATION PANELS

Communication panels for intercom, public address and radio can be assembled in a modular way and mounted on the ship's bridge.

Direct dialling buttons can be individually configured for frequently required functions – whether intercom, public address zones or radio.

In addition to the gooseneck, a handset can also be integrated, but also the touch screen for all call destinations.



IP AMPLIFIERS

UNIFIED PUBLIC ADDRESS



SCALABLE FROM DECENTRALISED TO CENTRALISED SOLUTIONS

A high performance level and a selection of different audio outputs are among the main characteristics of Series AF amplifiers. They are designed for universal use in applications up to complex PA and Intercom solutions. All models come in a compact housing and provide different installation options in addition to an efficient design and high performance. This makes them suitable for a wide variety of applications. With a flexible design like that, the devices also keep expenses

low in terms of cabling and energy requirements. What is more, they integrate easily into networks and offer numerous security functions, such as loudspeaker-to-line monitoring and self-monitoring of their audio functions. As a result, Series AF amplifiers make PA not just secure, but highly efficient.

The upward compatibility of the AF Amplifier Series is just as unique as its functional versatility. New functions can be downloaded easily via software updates.



AF 125H - 125 Watt IP Amplifier

Hybrid IP (IoIP/SIP), Class-D amplifier, robust metal housing for 19"-Racks (1U)

70 V / 100 V loudspeaker output

Loudspeaker-to-line self-monitoring (requires license)

Supports N+1 functionality



AF 250H - 250 Watt IP Amplifier

Hybrid IP (IoIP/SIP), Class-D amplifier, robust metal housing for 19"-Racks (1U)

70 V / 100 V loudspeaker output

Loudspeaker-to-line self-monitoring (requires license)

Supports N+1 functionality



AF 500H - 500 Watt IP Amplifier

Hybrid IP (IoIP/SIP), Class-D amplifier, robust metal housing for 19"-Racks (1U)

70 V / 100 V loudspeaker output

Loudspeaker-to-line self-monitoring (requires license)

Supports N+1 functionality

THE EASY WAY TO BRING EXISTING PA SYSTEMS UP TO DATE AND EVEN NETWORK THEM

Need a power boost or technology update for your PA system? No problem – simply replace the existing amplifiers and central units by Commend IP amplifiers. Job done. Existing wiring and loudspeakers can be reused to keep modernisation costs down. The upgraded system provides the full range of Commend functions. If required, multiple systems can be networked via the IP Amplifiers. It is also possible to integrate IP loudspeakers, taking full advantage of all features and functions from the Commend world.

HOW TELEPHONES CAN INTEGRATE WITH PA SOLUTIONS

Commend IP Amplifiers come with IoIP (Intercom over IP) and SIP capabilities, which allows them to integrate easily and seamlessly with existing VoIP/SIP-PBX systems as needed. This enables PA broadcasts via SIP telephones and provides the option of adding PA to existing SIP-PBX systems. The concept even supports serverless solutions that consist only of SIP telephones and Commend IP Amplifiers or Commend IP loudspeakers.

MARITIME GRADE LOUDSPEAKERS



HP-20T-MED

20W plastic IP67 marine grade weatherproof horn speaker, max. SPL 110 dB



HP-30T-MED

30W plastic IP67 marine grade weatherproof horn speaker, max. SPL 110 dB



HP-6CT-MED

6W plastic miniature loudspeaker is marine grade IP67 weather proof rated, max. SPL 100 dB



HPS-6CT-MED

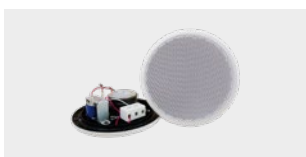
6W plastic miniature loudspeaker is marine grade IP67 weather proof rated, max. SPL 100 dB

CEILING LOUDSPEAKERS



BS-560T-MED

5" 6W ceiling-speaker. Secure screw fit alu, max. SPL 90 dB



BP-361T-MED

6W ABS - Aluminium ceiling-speaker with secure screw mounting, max. SPL 90 dB



BPF-660(T)-MED

6W ABS - PA - (VO) loudspeaker, max. SPL 93 dB

CABINET LOUDSPEAKERS



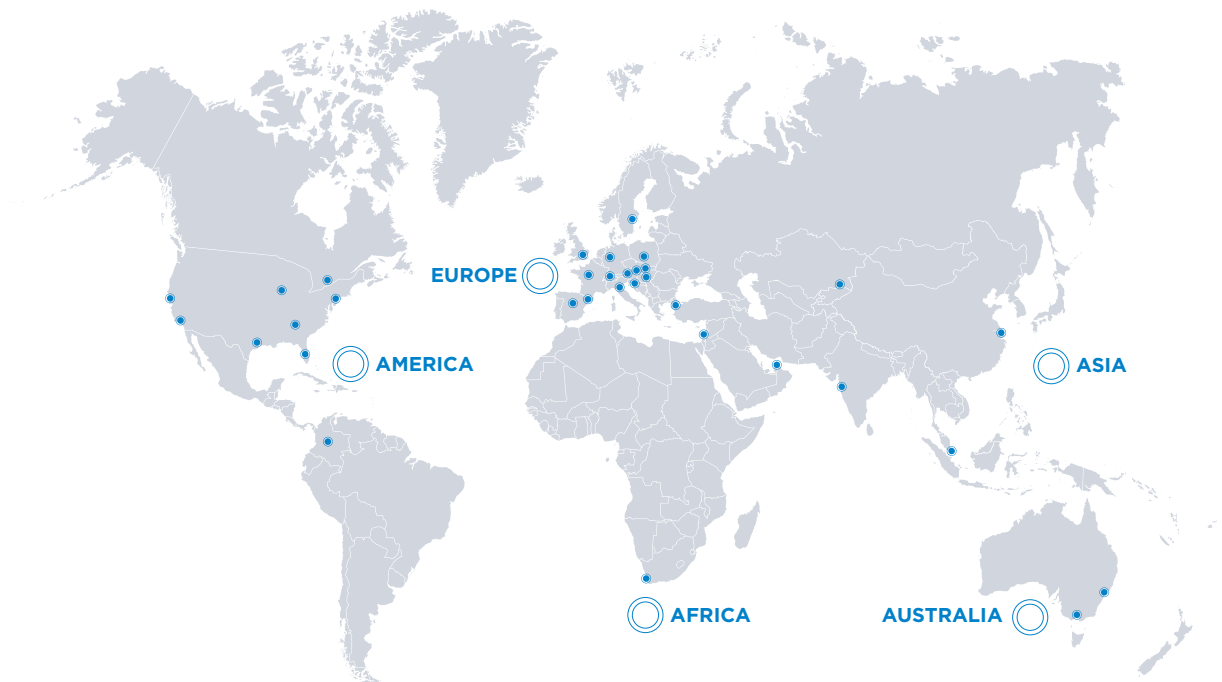
SAFE-10PT-MED

10W plastic IP44 rated cabinet speaker, max. SPL 87 dB



COMMEND WORLDWIDE

23 sales organisations operating in more than 60 countries.
More than 550 employees worldwide.



TRUSTED. COMMUNICATION. ALWAYS.

Can you imagine a system that millions of people rely on every day, where every word has to count? This is the world of Commend! Secure, reliable communication is our passion. As a global market leader with more than 50 years of experience in speech transmission, we provide not just Intercom and video connections with interfaces to third-party systems, we also provide products that open up new possibilities for integrated solutions. Commend is the preferred choice for hands-free voice communication systems all over the world.

CYBER SECURITY

Digital processes make life a lot easier. However, with all the benefits, also the dark sides arise. Digitization offers space for cybercrime. As a result, cyber security is constantly in our focus. It determines the way we develop products, which IT technologies we use in our products and how we fulfil our commitment to regular updates, including new IT security fixes, because Privacy and Security by Design is our top priority at Commend.

Learn more: trust.commend.com



QUALITY TESTED. RELIABLE. WELL-DESIGNED.

Commend software and devices are developed and manufactured by Commend International in Salzburg, Austria. Our development and manufacturing processes are certified in accordance with EN ISO 9001, EN ISO 14001 and EN ISO 27001.

Security by Design on all Levels.

Do you also want to learn more about
Maritime Solutions by Commend?
Please contact us.