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INTEVIO

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## **Integrated Public Address and Voice Alarm System**

# Public Address & Voice Alarm Made Simple

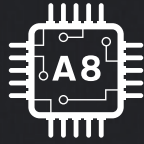
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INTEVIO is a compact, integrated public address and voice alarm system that adapts to your needs. Delivering enhanced safety, operational efficiency and user experience, INTEVIO offers the benefits of a state of the art PA/VA system in one simple to use, cost effective system.

INTEVIO's dual channel audio matrix has a total capacity of 128 loudspeaker zones, achieving high quality sound reproduction performance. With live paging, digital volume control, automatic triggering, dynamic power amplifier backup and comprehensive supervision now INTEVIO makes PA/VA simple.







### A Powerful Heart: Cortex-A8 Chip Inside

- Expand capacity for comprehensive functional integration, enabling size and cost reduction.
- Provide the foundation for smooth operation.
- Strengthen the backbone for system fault prevention.



### Dynamic Power Amplifier Backup

- Increase stability for the whole system
- Provide flexible backup options to meet economic targets.
- Reduce cost from oversized backup amplifiers with flexible amplifier backup solution



### Public Address and Voice Alarm Combined

- Stable, reliable system operation
- Full supervision and easier fault diagnosis
- International safety and Voice Alarm regulation compliant



### Ease-of-Use Design Saves Time and Money

- Reduce commissioning effort with less components
- Preloaded common configuration enables system setup via plug and play.

Operator productivity at small to medium-sized facilities is often subject to the operator's knowledge of the system, which day-to-day business relies on. To improve performance without requiring them to be subject matter experts, INTEVIO can flexibly adapt to the operational requirements, and lower the threshold for users with an intuitive user interface, programmable keypads, and remote access.

# Easy Responsive Error Free



## 3.5' TFT Screen

- Embedded with a graphical user interface for easy adoption.
- Improves operational efficiency with simple access to system control.
- User log lets you monitor component details whenever you want.
- Step-by-step guide identifies fault conditions so your employees don't have to – saving you time and money on training.



## One-Key Operation

- Simple One-Key task and zone operation to reduce operational steps



## Programmable Buttons

- Completely programmable buttons allow you to customize the system to fit your needs.



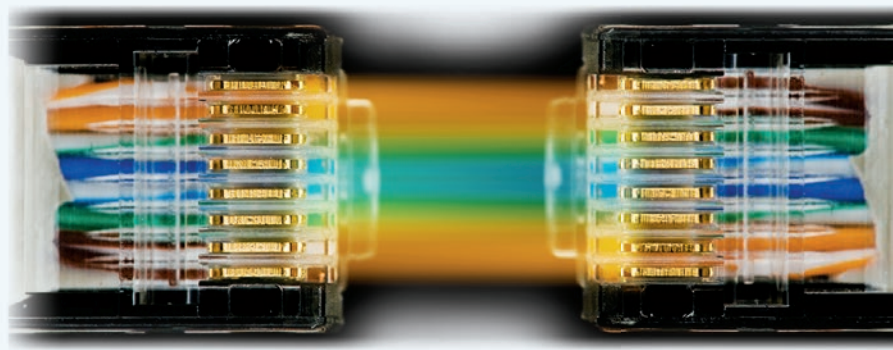
## Remote Live Paging and Audio Routing

- Up to 6 call stations available.
- Dual communication port supporting bi-directional "star" connection.
- Local audio source input and remote audio monitoring.
- Digitalized volume control for all inputs means there's no need for a preamplifier.
- One CAT5 cable for all routing including the power supply.
- A speaker embedded in the call station lets you record and play messages.

## Integrated Wiring

An optimized internal wiring layout within this integrated system makes installation and wiring simple and cost-efficient.

- Assigned function group terminal layout for straight connection wiring architecture eliminates the need for complicated crossover connections.
- A single CAT5 cable is used for audio routing, controls, supervision, and power.



## Centralized Monitoring

Faults can be quickly identified and resolved by conveniently accessing trouble and log details through the screen of the INTEVIO controller.

- Information is easily accessible through the 3.5" LCD controller.
- Manage configuration and fault diagnostics by exporting log files.
- Monitor your system around the clock with access to all details and supervision.



## Seamless and Easy Integration

- Open Protocol Interface based on TCP/Modbus





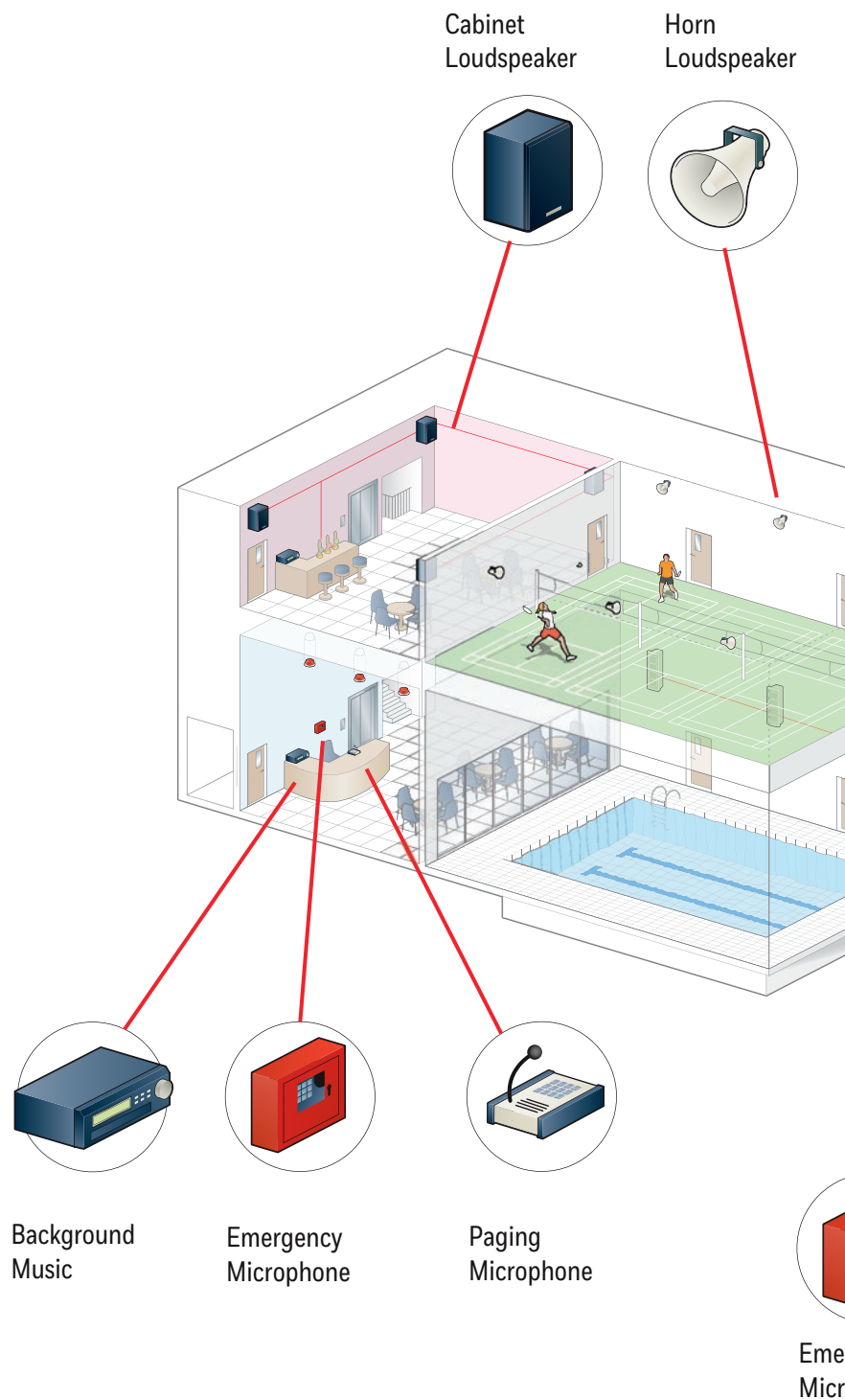
# The Role of Public Address and Voice Alarm

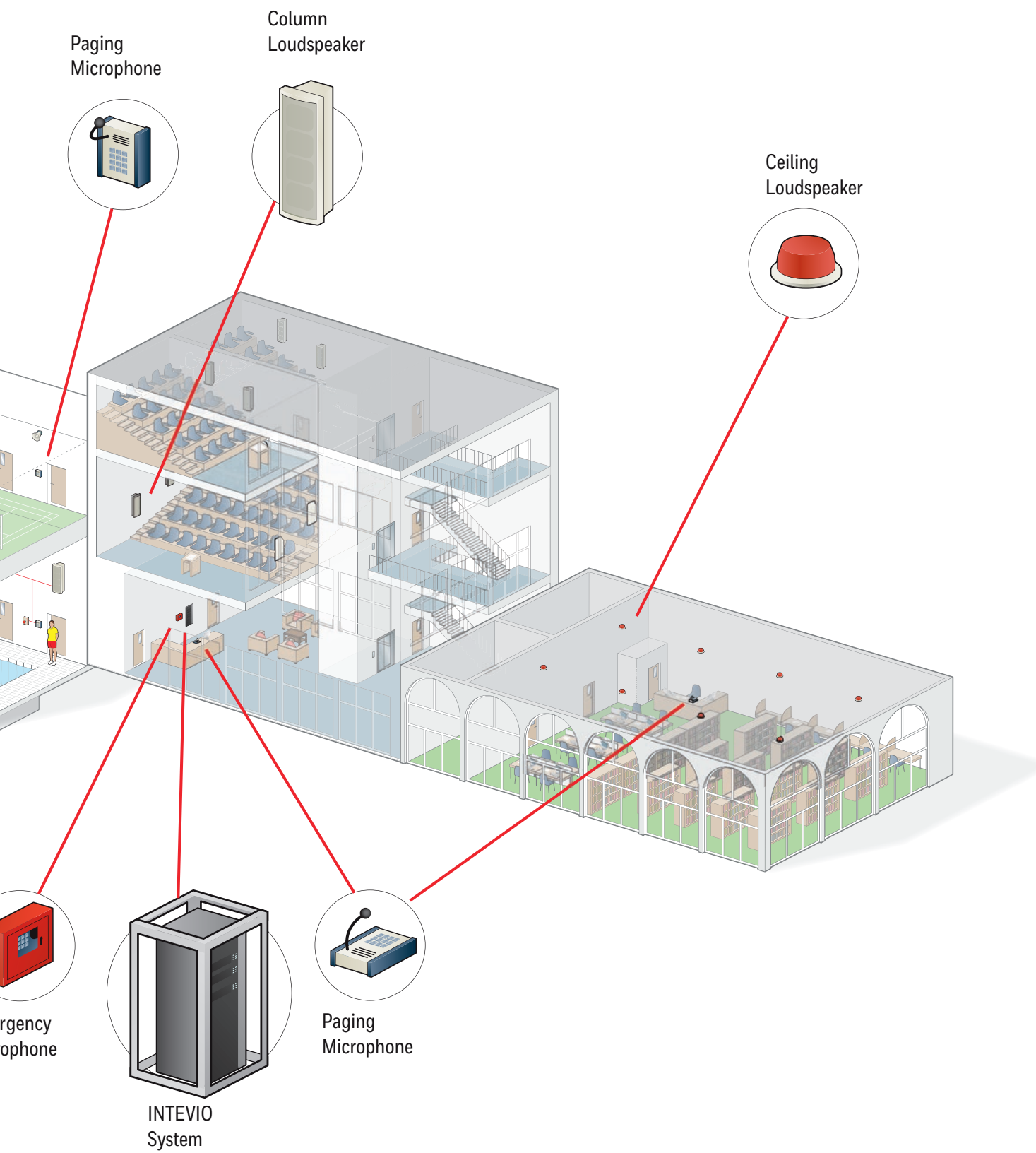
Voice Alarm is increasingly important in the safe management of buildings. A voice message informs occupants exactly what to do in an emergency and it is a long established fact that people respond more quickly and are more likely to take the correct action during an evacuation if voice messages are used instead of tone sounders.

Voice Alarm systems are not only used for public buildings with a high number of visitors, but also have the added benefit of performing as paging, public address and entertainment systems.

## Benefits

- Clear directions to people in the building
- Live messages giving exact instructions to people who are not familiar with the surroundings
- Customised pre-recorded messages (available in multiple languages)
- Improved management of phased evacuation
- Non-emergency functionality (public address announcements, background music and advertisements)





# Education



Day-to-day school operations often rely on a public address system. Any failure leads to an interruption in school operations. Therefore, in addition to rich features and cost efficiency, a school requires a system it can depend on.

INTEVIO is ideally suited to educational establishments, delivering a cost effective single solution for announcements and emergency notification.

- Improve efficiency by automatically delivering a preset school bell schedule throughout campus.
- Give trained personnel access to the system so they can broadcast recorded messages or deliver live paging.
- The system can add up to 6 call stations within 400 meters while being powered through data bus – eliminating the cost of any additional wiring.
- INTEVIO monitors the system's input/outputs, power supply, and speaker circuits for you. This is a key feature that can be checked on your colour display or with notifications via LED indicators to ensure the system is running properly.

#### **Customize System Configuration**

- With the configuration tool, users can program the school bell schedule for days, weeks, or years, and even use special programming for holidays and summer programs. The system can be synchronized with the Network Time Protocol (NTP) server to accommodate time synchronization and time zone changes.
- Full access to the current schedule and a user's ability to temporarily enable or disable any task allows for last-minute changes without the need to reset the entire system.

#### **Target Specific Zones**

- INTEVIO's remote call stations enable live paging to targeted zones. Functional buttons on the controller are configurable for different operations while allowing the user to easily change the message for specific zones – without extra hardware.

#### **Control Access and Set Restrictions**

- The controller provides programmable access restrictions with user password configuration. Scheduled tasks are automatically delivered, and users can override announcements based on priority levels.
- Unsolicited broadcasting could be tempting to curious individuals in a school setting, so an access control scheme can be applied to prevent unauthorized access.



# Office Buildings

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You know that a PA/VA system can be used as a standalone paging system, but did you know it can also be used to create the perfect atmosphere in your office? Choose specific areas to broadcast background music and you can boost productivity or greet your guests with a special tune.

INTEVIO, Honeywell loudspeakers and high efficiency Class-D amplifiers can play a key role in keeping your business safer and more productive.

## **Get the Job Done with INTEVIO**

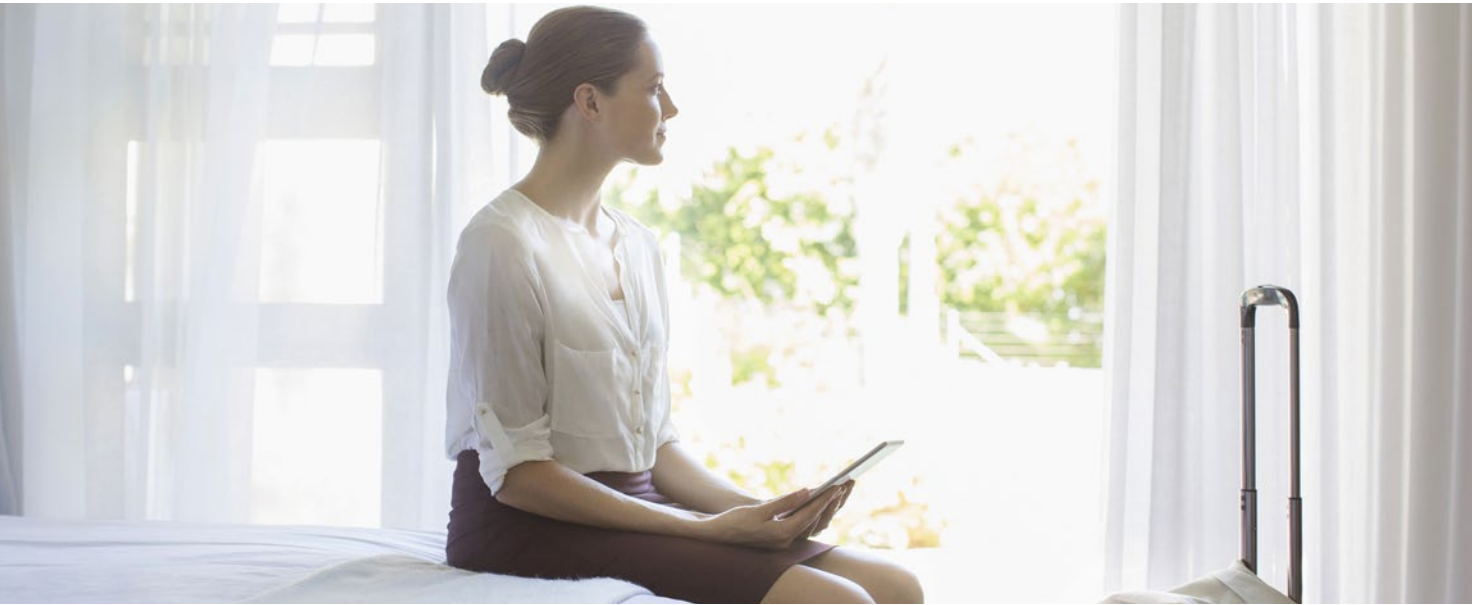
- Background music or message announcements are delivered in parking lots, reception lobbies, and corridors.
- Volume control can be adjusted to accommodate the ambient noise level in specific zones.
- Advanced prioritization of audio channels ensures emergency messaging and paging can be given priority to override service paging and background music. The system is lightweight and designed to have a clean look – inside and out – for simple installation and an appealing aesthetic in a crowded room.
- Security guards can use the system to monitor the premise and broadcast specific messages to individual zones during an emergency. A call station can also be designated as the master controller to override background and paging announcements in crucial scenarios.
- Every segment of audio is delivered perfectly to ensure the lowest distortion.
- Smart power distribution allows for excess power to be shared to effective zones, reducing waste.

## **Cost-Cutting Performance**

- To increase savings, INTEVIO provides a highly compact design with a user-friendly interface. Combined with the Honeywell Leadway Series loudspeaker family and high-efficiency ClassD amplifiers, INTEVIO can achieve professional grade sound while providing power-saving performance.

# Hotels

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Hotels provide a unique and relaxing experience. A PA/VA system is an essential part of that. Enhancing a visitor's experience means more than offering a pleasant ambiance – it also means providing a safe and secure surrounding.

- From lobbies and bars, to restaurants, spas, and swimming pools, each hotel area should benefit from a local audio source input. The standard solution is an independent audio system with I/O triggering that prioritizes emergency messages.
- In the lobby, a generous variety of audio content should be played throughout the day.
- Automatic broadcast makes the audio content easy to manage.
- Paging is not allowed in hotels – except for emergency situations. This means the system needs a foolproof design, providing quick access to control features..
- Hotel sound intelligibility is important, as the volume level has to be adjusted multiple times to different environments.
- INTEVIO amplifiers can be extended to a remote area for local broadcast. The system can deliver audio to local amplifiers through a 100V power line.
- With a storage of a 1 GB flash combined with a 4 GB SD card, the system can host up to over 900 minutes of music and has a USB port available for external storage.
- All audio sources, including AUX inputs and internal memories, can be programmed to broadcast day by day. Content is easy to update through configuration or the USB data port.
- In the configuration tool, the maximum volume level can be set according to environmental settings.

# Malls

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In shopping malls and supermarkets, a public address system is one of the most frequently used platforms. Environmental challenges like high turnover of staff or a complicated system can significantly increase training expenses. With the user-friendly INTEVIO features, you are empowered to improve operational efficiency. Easy operations are driven by real-time information, as users receive feedback from the system with every step they take.

- Use multi-language, scheduled reminders to manage the population flow within your facility.
- Enhance shopping ambiance in different areas with customizable background music.
- Program promotional messages by setting intermission times, configuring playlists, and more.
- The service call station in your control room oversees parking lots and different areas of the building, ensuring synchronized service paging.
- Eliminate operational errors and big training efforts with a user-friendly, simple-stepped system interface.
- Define audio source inputs within the “scheduled tasks” menu for external audio sources, or use default settings for routine messages.
- With a 1 GB flash plus a 4 GB SD card, the system can store up to +900 minutes of music and has a USB port available to support external storage and easy updates.
- Store prerecorded messages in the system for promotional announcements.
- INTEVIO supports temporary record and play functions, enabling user and content verification for broadcast access.
- Intuitive user experience with interaction messages that appear after each button operation.



# INTEVIO Controller

**RK-MCU**

## Product Overview

RK-MCU Master Control Unit is the central management device of the system, which is used to manage and monitor all devices and perform various operations. RK-MCU is integrated with audio storage, broadcast, zone control, monitor, timing control, fault diagnosis, etc. functions. Built-in 500W digital power amplifier can drive maximum 8 loudspeaker zones to meet requirements for small applications. It can also be connected to zone expanders to increase system capacity for the requirements of large applications as well.



## Features

- Manage all devices in the system, used for public address and emergency broadcast.
- View system status and set the parameters via LCD screen.
- Supports both single channel mode and dual channel mode.
- Maximum 8 loudspeaker zones can be connected, the maximum power rate of each speaker line is 500W.
- Built-in 500W Class-D power amplifier, also supports external power amplifiers.
- Flexible power amplifier redundancy. One spare amplifier can back up all amplifiers in the system.
- Built-in 1GB Flash memory and 4GB SD card, which can be used to store audio files, recording files, configuration data and log files, etc.
- Two auxiliary inputs and one MIC/LINE input.
- Optional PTT microphone used for live broadcast.
- Digital volume control, easy to set input and output volume.
- 255 broadcast priorities can be set as required.
- Built-in loudspeaker to monitor the audio signal of two channels.
- Automatic recording and temporary recording.
- Full system supervision, including main power supply, backup power supply, CPU, PTT microphone, power amplifier, speaker lines, dry contact inputs, network communication, etc.
- 10 dry contact inputs with supervision and 8 dry contact outputs.
- Supports 3-wire and 4-wire volume controller.
- Capable to be integrated with the third party system, like fire alarm system through dry contact or RS-485 interface.
- Zone expanders can be connected to increase the system capacity.
- Remote call stations can be connected for live broadcast and control.
- Built-in standard configuration allows to be used directly after installation. The function also can be set via configuration software.

# INTEVIO Amplifier

**RK-AMP500**

## Product Overview

RK-AMP500, 500W Digital Power Amplifier, is used to amplify the audio signal to drive loudspeakers. It is reliable, efficient and light in weight.



## Features

- Class-D technology with high efficiency.
- Maximum 500W power output.
- 70V and 100V audio output.
- Supports both balanced and unbalanced audio input.
- Forced fan cooling.
- Automatic output voltage limit.

# INTEVIO Call Station

RK-MIC

## Product Overview

RK-MIC is used to perform various broadcasts and live announcement in zones. This unit has programmable buttons, users may easily conduct operations, such as paging, BGM broadcast, business broadcast, voice alarm, volume control, recording, monitoring, etc. If necessary, extension key modules can be connected to RK-MIC for more buttons.



## Features

- Supports gooseneck or PTT microphone for live broadcast.
- Built-in loudspeaker to monitor CH1/CH2 audio.
- Temporary recording function.
- Line input interface to connect to external BGM audio source.
- The volume of microphone, line input and loudspeaker can be set via the volume regulators at the rear panel.
- 8 programmable buttons, be able to be configured by software.
- Supports extension key modules as required.
- Automatical supervision of microphone and communication.
- The distance between RK-MCU and RK-MIC can be up to 600 meters via twisted-pair cable using an additional power supply.
- Call station can be powered by RK-MCU (max. 400m distance).
- Maximum 6 remote call stations can be connected to the system.

# INTEVIO 8-Zone Expander

RK-ZONE8

## Product Overview

The INTEVIO 8-Zone Expander integrates additional speaker lines - while achieving a broader reach in new and retrofit applications.



## Features

- Supports single and dual audio channels.
- Maximum 8 zones can be connected, each zone has two speaker zones (A and B), of which maximum power rate is 500W.
- 8 dry contact inputs with supervision.
- 8 dry contact outputs.
- 4 external power amplifiers and 1 spare power amplifier can be connected.
- Flexible amplifier redundancy function.
- Full supervision, including main power supply, backup power supply, CPU fault, power amplifier, speaker lines, dry contact inputs and network fault, etc.
- Speaker line supervision in both broadcasting and non-broadcasting mode.
- The volume of the signal to amplifiers can be set via RK-MCU.
- Supports 3-wire and 4-wire volume controller.
- Supports standalone mode and networking mode.
- 1 line input interface, which can be connected to external device when device is in standalone mode or the CPU of RK-MCU fails.
- DC power output interface, through which to supply power for external modules, such as volume controller.
- Maximum 15 RK-ZONE8 can be used.

# INTEVIO Emergency Power Supply

PSU 24-1

## Product Overview

The Emergency Power Supply acts as a battery charger and control device for 24V DC external back up batteries in accordance with EN 54-4+A1+A2 standards.

The front panel includes LED indicators, control push button and USB socket, allowing control and test of power supply operating parameters. All connections are located at the rear of the unit, which has two configuration options: all 6 outputs providing the same current or 2 of the 6 with increased current-carrying capacity.



## Features

- High power backup power supply for 19" rack.
- High output current, up to 200 A @ 24 VDC.
- Management of one battery circuit.
- Max. capacity of batteries 270 Ah.
- Battery circuits resistance tests.
- Balancing voltage level of batteries in series .
- Temperature compensation of bulk charging and floating voltage.
- Advanced diagnostic and status indication.
- Built-in DC power distribution panel and low voltage disconnect device LVDD.
- Option to start system with only battery power, w/o mains source present – so called cold start.
- Built-in gauge of battery circuit resistance.
- UI characteristics of battery charging.
- Ability to work in floating mode or with discontinuous battery charging.
- Single phase power with PFC.
- Microprocessor controlled.
- Digital communication via USB connector.
- Operation with various acid batteries.

# INTEVIO System Components

DESCRIPTION	MODEL#
Master Control Unit	RK-MCU
Push-to-talk Microphone	HN-PTT
500W Class-D Power Amplifier	RK-AMP500
Remote Call Station	RK-MIC
Extension Keypad	HMC-K4
Extension Keypad	HMC-K8
Zone Expander	RK-ZONE8
INTEVIO Emergency power supply	PSU 24-1

INTEVIO is certified to EN 54-16, the mandatory regulation for Voice Alarm Systems within Europe and recognized extensively throughout the world.



# Honeywell Loudspeakers

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The Honeywell range of loudspeakers are fully compliant to EN54 part 24 to ensure high reliability and excellent performance in even extreme conditions, such as fire. Honeywell offers a full range of high quality speakers from ceiling, cabinet, projection to column models enabling optimal acoustics for all types of installation and applications.



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Honeywell reserves the right, without notification, to make changes in product design or specifications.

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