

Invented for life



INTEGRUS
Wireless Language
Distribution System
The language of perfection



Bosch Security Systems

To learn more about the Bosch product offering, please visit www.boschsecurity.com

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Ultimate comfort in wireless language distribution

- Advanced digital technology for a superior listening experience
- Secure, tamper-free infrared audio signal distribution
- No interference from Wi-Fi signal jammers or lighting
- Flexible, license-based expansion of up to 32 channels
- Attractive, ergonomic receiver design
- Easy and seamless integration with the IP-based DICENTIS Conference System from Bosch

The INTEGRUS Wireless Language Distribution System has been specifically designed for multilingual meetings to enable attendees to understand speeches in their native language. The audio signals of simultaneous interpretations are transmitted to pocket receivers and headphones via radiators utilizing proven, tamper-free infrared technology. Participants can move freely around the location whilst still able to follow proceedings.

The system is highly flexible and offers exceptional audio quality, making it ideal for parliaments, conference centers and international organizations, no matter what the size of the event or venue. As a result, it has become the wireless, infrared language distribution system of choice for event organizers.



The name INTEGRUS is derived from the Latin 'Integritas', meaning 'correctness in language', 'pure', and 'undistorted'. Calling on Bosch's advanced technologies and unparalleled experience, INTEGRUS ensures an exceptionally comfortable listening experience where language distribution is required.



Receivers with a comprehensive feature set and an attractive, ergonomic design

INTEGRUS Receivers boast a sleek, ergonomic design. The receiver's shape means it fits easily into a pocket and is comfortable to carry. The buttons are ergonomically positioned for easy use.

INTEGRUS can provide a maximum of 32 audio channels (the floor and up to 31 languages), making it ideal to cover even the largest of international conferences. Only available channels are displayed on the receiver so users don't waste time scrolling through empty channels to find their desired language.

Rechargeable battery pack or disposable batteries.

Easy-to-read two-digit LCD display

Ergonomic, comfortable-to-carry design

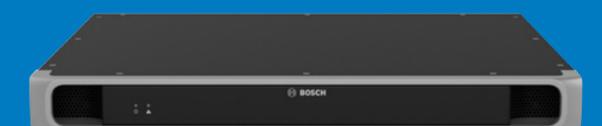
IP connectivity, future-proof expandability and hassle-free operation

Thanks to the built-in OMNEO IP architecture, the INTEGRUS OMNEO Transmitter can seamlessly interconnect with the fully IP-based DICENTIS Conference devices. This allows all existing DICENTIS users – building owners, rental companies and system integrators specifying the DICENTIS conference system – to integrate INTEGRUS in an easy, time-saving and future-proof way. By becoming part of a complete IP workflow, open industry standards and protocols such as Dante and AES67/70 can also be used.

All language settings are automatically detected and transferred between the DICENTIS Conference System and the transmitter, and the entire setup can be conveniently configured in the DICENTIS Meeting Application. Once integrated into an IP network with the DICENTIS Conference System, it is also possible to take full advantage of flexible power options supporting PoE and redundancy concepts. The IP infrastructure further ensures enhanced security by state-of-the-art encryption.

Aside from the added IP connectivity of the OMNEO transmitter, the INTEGRUS Wireless Language Distribution System offers the same great user experience, comprehensive feature set and hassle-free operation.

A new, cost-effective licensing model allows users to fit the number of required audio channels to the exact number of languages to be transmitted. The basic transmitter setup starts with four channels; up to 28 additional channels can be unlocked via software license as needed.



By utilizing the OMNEO transmitter, existing INTEGRUS systems can also take advantage of full IP connectivity and interconnectivity with DICENTIS conferencing devices. All existing INTEGRUS components are fully compatible. With its compact 1RU form factor, the device takes up only half the space of its predecessor.

Great user experience with a perfect audio reception

Bosch's Infrared Technology is a digital protocol that conforms with and even exceeds IEC 61603, part 7, the industry standard for digital infrared transmission in the 2 to 6 MHz frequency band. As a result, INTEGRUS offers superior sound quality with a signal/noise ratio of more than 80 dB, which makes that the sound comes out exactly as it goes in.

Providing an extraordinary sound experience, INTEGRUS allows conference participants to listen to speeches in real comfort. This means they are less likely to tire and lose concentration over longer conference sessions. And because INTEGRUS calls on infrared technology, delegates don't need to be physically connected to the system and can enjoy freedom of movement during sessions.

A choice of headphones is available, all of which can be attached to the INTEGRUS pocket receiver. The gold-plated connector that all Bosch headphones feature eliminates possible crackling. Whether using the lightweight headphones or the lightweight neckband headphones, participants will enjoy an exceptional audio experience.



INTEGRUS Pocket receivers have been optimized for use with Bosch headphones, which ensure the best sound quality.



Induction loop neckbands are designed to be used with a hearing aid. That means anyone with a hearing impairment can fully comprehend what is being said.

Best performing and most reliable technology for language distribution and multi-track audio



Optimal battery performance

The pocket receivers electronically manage their own charging process to offer best possible charging performance and maximum battery life. The charging units, which can accommodate up to 56 receivers at one time, also ensure optimal charging performance. Rapid recharging means receivers are fully charged within just 1 hour and 45 minutes.

Guaranteed privacy

As the INTEGRUS Infrared radiation cannot pass through solid structures, such as walls and ceilings, conference integrity can be guaranteed, which is crucial when sensitive issues are being discussed. For conference venues with multiple rooms, no interference occurs between separate conferences or sessions.

Room coupling

INTEGRUS also allows distribution of interpretations to different rooms in a venue. By simply placing separate (slave) transmitters and radiators in other rooms, the exact same functionality can be enjoyed. With INTEGRUS, conference organizers have real flexibility regarding room set-up.

“We are often asked whether infrared technology is still the best performing and most reliable technology for language distribution,” says Lars van den Heuvel, Director Global Product Management at Bosch Building Technologies. “We still believe in IR technology, and our customer base confirms that, too. The infrared audio signals are distributed in superior audio quality with a studio-like signal-to-noise ratio of 80 dB. In addition, Wi-Fi signal jammers or lighting don’t harm the signals in any way, and, most importantly, privacy and confidentiality are always guaranteed, as infrared signals cannot pass through walls and ceilings.”

Lars van den Heuvel, Director Global Product Management at Bosch Building Technologies



Operating at a higher frequency band than lighting systems, INTEGRUS suffers no interference. Even when used in direct sunlight, there is no impact on sound quality.

Conference delegates can enjoy complete freedom of movement while listening to interpretation in their chosen language.

From large international conferences...

Freedom of movement

Large international conferences and meetings often involve a substantial public attendance and a variety of nationalities, all of whom need to understand what is being discussed in detail. This includes delegates as well as journalists and other members of the audience. The INTEGRUS Wireless language distribution system provides everyone with the most comfortable audio experience to hear simultaneous interpretation of speeches in their own language. DICIENTIS Conference devices are placed on stage to capture presentations and speeches. The words are simultaneously translated by interpreters into a variety of languages that are then transmitted via INTEGRUS transmitters and radiators to the pocket receivers on which participants have selected their desired language. With INTEGRUS, members of the audience benefit from a less tiring and more enjoyable conference experience, even when attending longer events. And they can enjoy freedom of movement around even the biggest conference venues.



- 1. INTEGRUS Pocket receiver with headphone
- 2. INTEGRUS Radiator
- 3. DICIENTIS Discussion device with touchscreen
- 4. DICIENTIS Interpreter desks
- 5. Microphone
- 6. Line Array Loudspeakers

* The interpreter booths shown in the drawing are for illustration purposes only and do not represent a real situation. Requirements with respect to sound insulation and other general characteristics of interpreter booths are specified by ISO (the International Organization for Standardization) in:

- ISO 17651-1 - Permanent booths for simultaneous interpretation
- ISO 17651-2 - Mobile booths for simultaneous interpretation



INTEGRUS is the ideal system for use in conference centers and for international organizations, or whenever simultaneous interpretation is required.



...to smaller multilingual meetings

Complete understanding

INTEGRUS also offers an air of prestige to smaller multilingual meetings that bring individuals of different nationalities around a table and where simultaneous interpretation is needed. INTEGRUS can be used with the table top or flush discussion devices of the DICENTIS Conference System. Delegates can listen to simultaneous interpretation of the discussion via the built-in channel selector on their discussion devices, and can add their own voice to the debate by using the system's sleek microphones. Other members of the audience can listen to what is being said via INTEGRUS Pocket receivers and headphones. Additionally, technicians and venue owners will enjoy the flexibility of the INTEGRUS Wireless Language Distribution System, as no time-consuming set-up and break down is needed.



- 1. INTEGRUS Pocket Receivers with Headphones
- 2. INTEGRUS Radiator
- 3. INTEGRUS OMNEO Transmitter
- 4. DICENTIS Discussion devices with touchscreen
- 5. DICENTIS Interpreter desk
- 6. Line Array Loudspeakers
- 7. Camera System

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INTEGRUS in combination with DICENTIS is the perfect solution for multilingual meetings in international organizations and businesses, ensuring perfect reception and a comfortable audio experience.



INTEGRUS System components

The INTEGRUS family comprises innovative, high-quality and reliable products for optimal sound experience, including a stylish 1RU OMNEO Transmitter that is at the heart of the system, a number of digital radiators, pocket receivers, a choice of headphones and charging units.



Receiver

- Attractive and ergonomic design
- Clear two-digit LCD display
- Battery and reception status indicator
- Integrated electronics for optimum charging performance
- Available in 4, 8 or 32 channel versions



Headphones

- Choice of style to meet every need
- Gold-plated connectors ensure superior audio quality
- Comfortable to wear and listen through



OMNEO Transmitter

- Seamless IP integration with the DICENTIS Conference System, no configuration required
- Excellent audio quality
- 4-channels basic setup, up to 28 additional channels unlockable
- Infrared technology allows freedom of movement



1 Additional language license

- Extends the out-of-the-box OMNEO transmitter with additional language channels
- One license per additional language is required
- Up to 28 licenses can be added to the transmitter for a total of floor and 31 languages



Radiator

- Fan-less cooling offers silent operation
- Expandable for maximum coverage
- Available in two versions to suit venues of different sizes



Charging Unit

- Can accommodate up to 56 receivers
- Rapid recharging within 1 hour and 45 minutes
- Available in suitcase format for mobile use and as a cabinet for permanent installation

Accessories

- Rechargeable Battery Pack, Flightcases, Wall Mounting Bracket, Universal Floor Stand, Symmetrical Audio Input and Interpreter Module