

The new *DIGIMIC*[®] Wired and/or wireless – plug (and/or unplug) and play!

DIGIMIC – the most reliable conference system for over three decades now takes you beyond digital. With DIGIMIC you no longer need to decide, wired or wireless. You can have either or both! DIGIMIC wired. DIGIMIC wireless. DIGIMIC wired and wireless. You determine what solution is most appropriate for your application. To convert a wired DIGIMIC to wireless simply replace the cable with a battery; if a wireless system is not the best solution for your application simply re-connect the cable. It is as simple as that.

Simple, versatile, DIGIMIC!

Past and present

DIGIMIC stands for digitally controlled microphone management. With DIGIMIC, the digital age of conference technology began. Based on this technical advancement and the related customer benefits, Brähler ICS soon lead the market with DIGIMIC.

Today, DIGIMIC is used in conferences throughout the world setting the standard for transmission quality, reliability and compatibility.

DIGIMIC continues to lead, consolidating its edge with the introduction of the new, digital DIGIMIC. Our new platform for conferencing encompasses over 50 years of experience and extraordinary innovations.

Wireless DIGIMIC

With DIGIMIC, it is no longer a question of which type of conference system to invest in but rather how to use it best. The wired system quickly and easily converts into a wireless one whenever needed. Simply replace the system cable of the microphone unit with the docking unit and switch it on.

This unique method makes it an elegant and efficient solution for both rental and sales applications.

As secure, reliable and easy to use as wired systems

As the inventor of the single cable technology, one of Brähler's primary goals when developing a wireless conference system was to achieve the same reliability and high quality as a wired system. In today's conferences, different wireless devices, such as mobile phones, Bluetooth functions and WLAN technology for Internet use, are necessary and sometimes an essential part of the conference. DIGIMIC is compatible with all applications that use the same medium to communicate: air.

DIGIMIC

DIGIMIC works 100% as a stand-alone solution and is completely self-configuring. With DIGIMIC, it is easier than ever before to set up even the most complex conference system. With DIGIMIC, plug & play promises exactly what it says: microphone unit and central unit are quickly connected and ready for conferencing. The system meets studio technology requirements to perform well above the actual standard of conference technology. With DMicControl software, DIGIMIC can also be controlled at any time via the PC. TCP/IP communication is utilised to offer microphone control with geographic interface and name handling as well as various other conference requirements. The DIGIMIC microphone unit is simple and easy to use enabling the delegates to concentrate on one thing – their discussion.



DIGIMIC is made for Conferences

Our focus in developing the new DIGIMIC was on four major properties shared by the same DIGIMC system that has been highly regarded for over three decades. Ease of use, Flexibility, Reliability, Superior quality.

Ease of use

To setup a DIGIMIC system is easier than set up has ever been before. Once a microphone unit is connected it is ready for use instantly. To adjust for different applications, all necessary settings are done via the user-friendly menu on the front side of the central control console.

Flexibility

Digimic is designed for any size conference applications and its architecture allows easy expansion for up to thousands of delegate units.

Reliability

DIGIMIC works 100% as a stand-alone conference system and is equipped with reliable secure locking connectors. Everything is provided for wireless and/or wired applications and may be integrated with other media control systems.

High quality

Like its predecessor, the new DIGIMIC system raises the bar for performance standards. Along with digital broadcast quality, DIGIMIC offers a complete compliment of digital and analogue interfaces. Audio routing is well defined, easy to navigate, and well suited for use for professional audio and sound reinforcement systems.

classic



- + Ultra slim housing and timeless design
- + Easy to combine with DIGIMIC pro
- + Simple plug & play
- + Remote control via DMic control



pro



- + Ultra flexible: works both wired or wireless
- + Proven in tough rental situations, quick and easy to use
- + From wired to wireless and back in 5 seconds
- + Enables simultaneous use with several other wireless systems
- + Complete stand-alone system
- + Maximum conference protection without interception



product
design
award

2011 ■

Design

The designs of the CMic and DMic delegate's units are clear and self-explanatory to ensure delegates can concentrate on one thing – the conference. Its arrangement focuses on the microphone, or more precisely, the microphone socket, and the pertinent microphone button, visually reinforcing the importance of the microphone button in using the microphone. The loudspeakers are ring-shaped, their fine and precise openings and their arrangement evidencing superior quality and audio transmission. Other features, such as the volume control and headphone socket, are located at a secondary position on the side of the housing.



DIGIMIC's CMic – efficient and ultra slim

The fully digital, wired microphone unit CMic in the DIGIMIC system serves as the frontend for verbal communication. The ultra slim and clearly arranged CMic has one button for switching the microphone on and off and for request-to-speak function, lighting up red when activated. The two integrated loudspeakers provide even decentralised voice amplification to increase speech intelligibility where necessary, especially in smaller conference areas without a PA system. In addition, the microphone unit is equipped with a headphone socket and volume control.

CMic features cutting-edge technology in an ultra slim housing, with a height of just 22 mm. And yet it provides all the wired options of its big brother, DMic, with the exception of the data interface for connecting the docking unit DDoc for wireless operation. It easily integrates into the DIGIMIC range, alone or in combination with wireless and/or wired DMics.

CMic – Digital microphone unit

- Illuminated microphone push-button for indication MIC ON/OFF or REQUEST
- Lockable microphone socket
- Two loudspeakers for decentralized audio amplification
- Headphone socket (mono/stereo) with volume control
- Voice activation
- Single-cable technology
- Fixed 2 m connection cable, lockable sockets

CChair – Digital chairperson's microphone unit

- as CMic, in addition
- "Mute all" button
- Priority function for priority of the chairperson's microphone
- Position-free placement of the chairperson's unit in the system

DCen – intelligent operating system, fully automatically

The central control unit DCen, the heart of the DIGIMIC system, provides a variety of connections insuring a flexible and reliable integration of DIGIMIC into your conference environment. All DIGIMIC conference units are connected using up to four buses using the D9 system cable with robust locking connectors.



Central Unit DCen

General

- 100% stand-alone
- Self-configuration
- 19" housing – 2 HE
- Independent power supplies for each bus
- Flexible and stable system cable and connector

Control

- Menu driven system control
- Remote control via network
- All Common conference operation modes: automatic and manual (request) modes, VIP assignment

Common audio device interfaces

- (e.g. digital mixing consoles)
- ADAT input and output (separate digital output for each bus)
 - AES/EBU input and output
 - 1 x Analogue Input XLR balanced
 - 5 x Analogue outputs XLR balanced (1 Master/1 for each branch)

Control input and output

- Two RS232 interfaces for microphone keyboard, Media Control, camera systems
- Wordclock input
- LAN connection for network control

Connection of units

- Up to 100 delegate units on four branches
- Expandable up to thousands of units

Digital audio

- 48 kHz sample rate
- 24 Bit resolution
- 20 – 20,000 Hz frequency response
- 1.1 ms latency time
- Resistant to RF/cell phone/Bluetooth/UMTS/WiFi etc.



DIGIMIC's DMic – unique flexibility

The new frontend of the DIGIMIC system is elegantly designed and the microphone units are reliable, flexible, and provide superior audio quality. Once connected to the system all units are ready to use instantly without any configuration required. Connected chairman units will automatically offer the standard chairman's priority functions (if required) and special delegates can be assigned as so-called VIPs.

DMic – Digital microphone unit

- Illuminated microphone push-button for indication MIC ON/OFF or REQUEST
- Microphone socket
- Two loudspeakers for decentralized audio amplification
- Headphone socket (mono/stereo) with volume control
- Voice activation
- Single-cable technology
- Data interface to wireless docking station

DChair – Digital chairperson's microphone unit

- as DMic, in addition
- "Mute all" button
 - Priority function for priority of the chairperson's microphone
 - Position-free placement of the chairperson's unit in the system



Wireless preferred? ... no problem.

DIGIMIC microphone units can be used either wired or wireless! To make a wired unit wireless, simply replace the wire with the docking station, which ensures the reliable communication with the DSpark transmission console.

Once the microphone button is pressed, the unit will be recognized and configured completely automatically. The integrated rechargeable lithium-polymer battery ensures continuous operation for over 20 hours. A low power level of the battery pack will be indicated on the DDoc and within the DCen Control software.

DDoc – Docking station for DMic and DChair

- 2 antennas for simultaneous audio transmission (speaking and listening)
- Docking/data interface for delegate and chairperson unit
- Continuous operation time over 20 hours
- Lithium-Polymer-Power-Pack Battery pack
- Recharging cycles over 1,000 times
- Charging status indication
- Charging tray for up to 10 rechargeable batteries
- The rechargeable battery can easily be replaced, even while the system is in operation



DSpark ... alone or in a team

The radio transmitter unit DSpark ensures problem-free communication in the wireless DIGIMIC system. Its reliability more than matches that of a conventional wired unit. Using the D9 system cable, the DSpark is integrated in the system similar to a microphone unit so it can be used and controlled at the same time with wired units, or autonomously, as a wired stand-alone version. Two transmission options – one system.

In today's conferences, mobile phones, Bluetooth functions and WLAN technology for Internet use, are necessary and sometimes an essential part of the conference. The HF radio protocol (APRON) is based on a unique, intelligent, adaptive narrow band protocol ensuring problem-free co-existence of the DIGIMIC conference system with several other wireless systems. Even with heavy use of the frequency band, DIGIMIC always leaves enough room for other applications to function through intelligent, adaptive frequency hopping to find unused bands. But even if band's capacity is exhausted, DIGIMIC proves fully reliable. The spoken word will reach the addressee.

For easy configuration, the DSpark can be used totally autonomously (without DCen) offering the most common functionalities for discussion systems. The solution offers an inexpensive first step into the wireless world of conferencing with the added advantage of later system upgrading and expansion (wired/wireless).

General

- Two operation modes: slave mode – connected to DCen, Autonomous mode w/o DCen
- Wall, ceiling, table and tripod installation
- Continuous operation time more than 20 hours

Transmission protocol

- Adaptive Frequency Hopping
- Dynamic Frequency Diversity System (DFDS)
- Forward Error Correction (FEC)
- Spread Spectrum Method (SSM)

Ensures

- Co-existence with all fixed frequencies such as WIFI
- Self-adjusting to on-site frequency usage conditions
- Continuous audio flow w/o interruption
- Secure audio transmission w/o interception
- Resistant to cell phone, Bluetooth, UMTS, WIFI, etc.

Autonomous mode

- Complete basic stand-alone functionality
- One analogue In- and Output
- External power supply (only in autonomous mode)
- Chairman Priority
- Automatic registration of wireless delegate units

Digital audio

- 48 kHz sample rate
- 24 Bit resolution
- 20 – 20,000 Hz frequency response
- 6ms latency time microphone signal