OmniSound® – superior audio quality

OmniSound®’s patented audio optimisation technology guarantees impressive, crystal-clear, full-duplex audio in both directions for efficient and effective virtual meetings. The sound is powerfully transmitted to all attendees thanks to two hypersensitive microphones with 360° audio pick-up and speakers.

OmniSound® delivers HD audio during VoIP calls. It also incorporates automatic echo cancellation and noise suppression, which minimises background noise interference, and an equaliser for personal adaptation of the audio properties. You can walk freely around the room, talking, sharing and discussing with others without loss of sound quality and without any annoying audio clipping, muffling or echoes. It's as close to real sound as you can get.

⚠️ **Warning!**
Do not expose the 8105s EGO to water or moisture.

⚠️ **Warning!**
Do not open the casing of the 8105s EGO.
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Introduction

The 8105s EGO is a conference unit that can be connected to your mobile phone, tablet and computer to obtain crystal-clear, powerful OmniSound® audio in your virtual meetings.

- OmniSound® audio optimisation technology with full duplex, echo cancellation and static reduction in HD bandwidth. (The bandwidth may be limited by the connection)
- LCD display for easy viewing and use.
- Support for simplified Bluetooth® pairing and connection using NFC (near-field communications).
- Support for Bluetooth® A2DP (advanced audio distribution profile) for superior audio quality when playing music.
- USB port for connection to a computer or other compatible USB device.
- Integrated battery makes the 8105s EGO completely cordless with a Bluetooth®-connected phone. The battery is charged from a USB port.
- Headset connectivity option allows easy switching between headset and speaker function.
- Upgradeable.
- 2-year warranty.

Maintenance

Clean the equipment with a soft, dry cloth. Never use liquids.
Description

Connections and buttons

**LEDs**
- Steady yellow light: The 8105s EGO is switched on
- Steady blue light: Connected through Bluetooth®
- Steady green light: Microphone is enabled/call in progress (Bluetooth®)
- Flashing green light: Incoming call (Bluetooth®)
- Flashing blue light: Pairing or connecting in progress (Bluetooth®)
- Steady red light: Microphone switched off during calls (mute)
- Flashing red light: Low battery
  - Flashing slowly: The call is placed on hold (Bluetooth®)
Information on the LCD display

The icons are normally displayed for a couple of seconds on connection. The same symbol is displayed in red when the connection is broken.

USB device connected
Incoming call or call in progress via USB
Music mode via USB
Visible for pairing via Bluetooth®
Reconnecting to Bluetooth® device
Bluetooth® device connected
Incoming call or call in progress via Bluetooth®
Music mode via Bluetooth®
Headset connected
Volume adjustment (number of bars indicates the volume selected)
Microphone switched off (mute)

Battery status
Displayed automatically when there is 1 hour remaining and then every 5 minutes. The number of bars in the battery icon indicates the charging status. The battery needs charging when the icon turns red.

Manual display of battery status

⇒ Quickly press (off/on).

*The battery status is displayed on the 8105s EGO.*
Turning off and on

The 8105s EGO starts automatically when it is connected with a USB cable to a powered-up computer. The three LEDs show a yellow light to indicate that it is switched on.

The battery is simultaneously trickle charged.

⇒ Push the button \( \odot \) (off/on) to start the 8105s EGO. Hold down the button \( \odot \) for five seconds to manually switch off the 8105s EGO.

ℹ️ If the 8105s EGO is connected via USB, it will continue charging even if it is switched off, but at a reduced rate.

The 8105s EGO switches off automatically after 30 minutes to save the battery unless it is being charged via USB or is connected via Bluetooth®. Restart the 8105s EGO by connecting it to a USB port or by pressing \( \odot \) (off/on).
Using with a computer

The 8105s EGO transforms your computer into high-quality conferencing equipment with OmniSound®. Unlike normal computer speakers and microphones, the 8105s EGO provides full duplex (two-way audio) and efficient echo cancellation and static reduction.

The computer identifies the 8105s EGO as an echo cancellation device which means that communication software usually leaves the audio processing to the 8105s EGO, resulting in better sound quality.

OmniSound® performs over the full audio bandwidth (50–7,000 Hz). However, there may be some factors that limit the sound quality, depending on the equipment in the network and that used by the other call participants.

If you are playing music, or some other one-way audio stream, the 8105s EGO switches automatically to music mode so that the sound is not altered by OmniSound®.

Connecting to a computer

Connect the computer to the 8105s EGO with a suitable USB cable. The icon is displayed on the 8105s EGO.

The computer's operating system normally automatically selects the 8105s EGO as a speaker and microphone. If the 8105s EGO is not automatically selected as an audio device in the computer, you may have to access the computer settings and manually select 8105s EGO.

If the computer has active software that is using the computer's built-in speakers, you may need to restart the software to switch to the new speaker (8105s EGO).

Using as a computer speaker (music mode)
The computer normally only activates the speaker in the 8105s EGO if no other software is running that can use the microphone. This means that the 8105s EGO acts as a computer speaker and that the audio processing in OmniSound® is turned off so that the sound is not altered.

When the 8105s EGO is connected via USB, you have to use the computer to control the music. The ‹, › and ‹‹ buttons only work for music via Bluetooth®.

**Adjusting the volume**

Press ‹‹ and ›› to adjust the volume.

The volume can also be controlled from the computer.
Using as a conference unit

The 8105s EGO microphone will be automatically enabled when you start a VOIP call or a recording using audio recording software on the computer. OmniSound® now handles full duplex and echo cancellation.

Starting a call

⇒ Starting the call from the computer.
   
   *The LEDs on the 8105s EGO show a steady green light.*

Answering incoming calls

⇒ Answering a call from the computer.
   
   *The LEDs on the 8105s EGO show a steady green light.*

Ending calls

⇒ Ending a call from the computer.
   
   *The LEDs on the 8105s EGO light up yellow.*

Switching the microphone off during a call (mute)

⇒ Press ![mute](https://example.com/mute_icon.png) to switch the microphone off temporarily during a call.
   
   *The LEDs on the 8105s EGO show a steady red light.*

⇒ Press once more to switch the microphone on again.

Adjusting the volume during calls

⇒ Press ![volume_up](https://example.com/volume_up_icon.png) and ![volume_down](https://example.com/volume_down_icon.png) to adjust the volume.
Using with a Bluetooth® device

The 8105s EGO can be connected to a mobile phone or a tablet via Bluetooth®. We are using a mobile phone in these examples. Bluetooth® must be enabled in the mobile phone's settings.

Audio can be transmitted in two different ways via Bluetooth®. One is two-way and is optimised for speech. The other (A2DP) has higher audio bandwidth, is one-way and is optimised for music. The 8105s EGO supports both of these.

OmniSound® performs over the full audio bandwidth (50–7,000 Hz). However, limitations in the telecommunications networks and in Bluetooth® technology reduce the bandwidth somewhat and the sound is compressed. This has an effect on the sound quality.

Pairing and connecting

Two devices have to be paired before they can communicate with Bluetooth®. You do this in different ways depending on whether your telephone supports simplified pairing via NFC (near-field communications) or not.

A maximum of eight devices can be paired with the 8105s EGO. If another device is then paired, the oldest pairing information is deleted. It is also possible to delete all pairings, see page 15.

Pairing and connecting with NFC

NFC must be enabled on your mobile phone and the screen unlocked.

Hold the mobile phone next to the NFC symbol on the 8105s EGO.

You might need to move the phone closer then further away from the 8105s EGO to make contact via NFC. The range is only about one centimetre.

The mobile phone and the 8105s EGO are paired and connected.

The icon is displayed on the 8105s EGO and the LEDs light up blue.
**Pairing without NFC**

⇒ Turn Bluetooth® on in your mobile phone.

*This normally makes the phone visible to other Bluetooth® devices and even starts a search on some phones.*

⇒ Hold ⌘ down for two seconds on the 8105s EGO.

*This makes the 8105s EGO visible to other Bluetooth® devices. The ☑ icon is displayed and the LEDs flash blue.*

⇒ Start a search on your mobile phone.

⇒ Select the 8105s EGO from the list of devices found and select pairing. (It may take a while for the devices to find one another.)

*The devices are paired and usually automatically connect to one another.*

*The ☑ icon is displayed on the 8105s EGO and the LEDs light up blue.*

⚠️ After 60 seconds in pairing mode, the 8105s EGO returns to normal mode even if pairing has not been established.
Reconnecting already paired devices

A pairing means that the phone and the 8105s EGO save information about one another. This information is saved, even if the connection is broken.

The connection is broken if:

- The devices are far apart (Bluetooth® has a range of about 10 metres).
- You turn off Bluetooth® in your mobile phone.

The next time your mobile phone and the 8105s EGO are within range of one another, you will not need to pair them. Simply connect.

1. Your mobile phone must have Bluetooth® switched on.

2. Press ⎡ when the phone is within range.
   
   The ⎡ icon is displayed on the 8105s EGO and the LEDs light up blue.

3. If you have a call in progress on your mobile phone, it is transferred to the 8105s EGO.

4. Some mobile phones try to connect automatically to a paired handsfree (8105s EGO) when you make or take a call.

Using as a speaker (music mode)

The 8105s EGO functions as a powerful speaker for playing music from your mobile phone. If your phone supports A2DP, you'll get the best audio quality. When music is being played, the audio processing feature in OmniSound® is turned off so that the sound is not altered.

Adjusting the volume

1. Press ⌂ and ⌂ to adjust the volume.

2. The volume can also be controlled from your mobile device.

Controlling the music

1. Press ⌂, ⌂, and ⌂ to simply pause, play and skip tracks in the playlist on your mobile phone.
Using as a conference unit

When you make or take a call, music mode automatically stops and the 8105s EGO microphone is enabled. OmniSound® now handles full duplex and echo cancellation.

Making calls

⇒ Dial the number on your mobile phone.
   The LEDs on the 8105s EGO light up green and the sound is audible there.

   On some mobile phones, you can choose to have the sound play through your mobile or headset (8105s EGO) when you make the call.

Answering incoming calls

⇒ Answer by pressing ✔ on the 8105s EGO.
   The LEDs on the 8105s EGO light up green and the sound is audible there.

   i The call will play through your mobile phone if you take the call there.

   i You can reject the call by pressing ✗.

Transferring a mobile call in progress

⇒ Press ⌥ on the 8105s EGO.
   The call is transferred between the 8105s EGO and the mobile phone each time you press.

Ending calls

⇒ Press ✗ on the 8105s EGO or end the call from the phone.
   The LEDs on the 8105s EGO show a steady blue light.

Switching the microphone off during a call (mute)

⇒ Press ⌧ to switch the microphone off temporarily during a call.
   The LEDs on the 8105s EGO show a steady red light.

⇒ Press once more to switch the microphone on again.
**Holding a call**

⇒ Press √ to put the call on hold.
⇒ Press once again to return to the call.

**Adjusting the volume during calls**

⇒ Press ⬆️ and ⬇️ to adjust the volume.
Using a headset

⚠️ Warning!
Use of headphones/earbuds at high volumes can damage your hearing.

⇒ Connect the headset to the port on the 8105s EGO.
   *The sound automatically transfers to the headset.*

⇒ Unplug the headset.
   *The sound automatically transfers to the 8105s EGO speakers.*
Settings

Keypad tone

Hold ✔ down for five seconds to disable or enable the button clicking sound on the 8105s EGO.

The ☑ icon indicates that the keypad tone feature is enabled. The ☐ icon indicates that the keypad tone feature is disabled.

Clearing the list of paired devices

Hold ⬧ down for five seconds to clear the list of paired devices on the 8105s EGO.
Technical data

Item number 3MG08017AA.
Size 145 x 134 x 32 mm.
Weight 230 g.
Display 1.77" Colour LCD, 128x160 pixels.

Power supply
USB Power supply and battery charge via the USB.
Battery 1000 mAh Li-ion.
Stand-by 72 hours battery only
Talk time 12 hours battery only

Connections
USB Micro USB. For computer connection.
Bluetooth® Bluetooth 4.0. For connection to a mobile phone or other equipment that supports the Bluetooth® Handsfree profile.
Support for simplified Bluetooth® pairing and connection using NFC (near-field communications).
Support for A2DP (advanced audio distribution profile) is required to obtain the best audio quality when playing music and for music control via the music mode in the 8105s EGO.
Headset 3.5 mm phone plug (TRS/TRRS).

Audio
Audio optimisation OmniSound®.
Microphone Two microphones with beamforming
Coverage range Up to 30 m2.
Frequency range for music 50-24,000 Hz.
Frequency range for speech 50–7,000 Hz
Volume 90 dB SPL 0.5 m.

Environment
Temperature 5°-40°C.
Relative humidity 20-80% condensation free.
Recommended acoustics Reverberation period 0.5 S Rt 60.
Background noise < 45 dBA.
Regulatory Statements

Europe

This equipment complies with the essential requirements of following directives: 2014/30/EU (EMC), 2014/35/EU (LVD), 2009/125/EC (ErP), 2011/65/EU (RoHS). Declaration of Conformity may be obtained from: ALE International 32 avenue Kléber – 92700 Colombes, France ebg_global_supportcenter@al-enterprise.com

USA and Canada

Phones with Bluetooth® comply with Industry Canada’s license-exempt RSSs. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correcting the interference by consulting the dealer.

User Instructions

Use this product in temperatures between -5°C to +45°C (23°F to 113°F). This product is intended for use in an indoor environment only. This apparatus is Hearing Aid Compatible (HAC).

Acoustic shock protection

Maximum sound pressure level for handset is compliant with European, US and Australian standards.
California Proposition 65 Warning

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

The equipment must be returned to a collection point for electronic equipment waste disposal. Defective batteries must be returned to a collection point for chemical waste disposal.

Related Documentation

Other languages for these Safety and Regulatory Instructions and User Documentation are available at the following Web site: http://enterprise.alcatel-lucent.com?product=All&page=Directory.

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