

**BREAKING DOWN
COMMUNICATION
BARRIERS**



OPUS
Technologies



EDITO

Opus Technologies is a French manufacturer of assistive listening technologies.

With over 10 years' experience in developing innovative technologies, we are committed to providing the best hearing accessibility solutions for people with hearing loss.

Led by a team of professionals who are passionate about accessibility products, our priority is to offer you reliable, high-quality solutions.

*As part of this progress, we have launched our new **Aura by Opus** brand based on Auracast™ technology. This ground-breaking innovation enables direct, wireless audio broadcast to compatible devices, providing an enhanced, personalised listening experience in public places. We will have many surprises in store in 2025 to meet users' needs even better.*

*The Opus Technologies catalogue includes our range of solutions based on **Auracast™ technology**, of audio-frequency **induction loop amplifiers**, as well as a range of **counter intercoms** and **UHF wireless systems**.*

In partnership with our international partners, we develop ever more effective solutions to meet the varied needs of our customers. We guarantee permanent support and a professional response to all your requests.

Opus Technologies team

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OUR COMPANY

Opus Technologies is above all a human adventure that has been going on for more than **10 years**. Our main mission? To design and manufacture in Europe the most efficient assistive listening devices on the market. Thanks to our exclusive technology, we enable audio to anybody to enjoy **optimum sound quality** in public spaces such as theatres, conference rooms, reception desks, airports and many more.

To ensure so our partners receive the best possible support and to maximise compliance with an international requirements in installations, we offer ongoing training to all our resellers. We also offer tailor-made case studies, technical training and customised design prior installation.

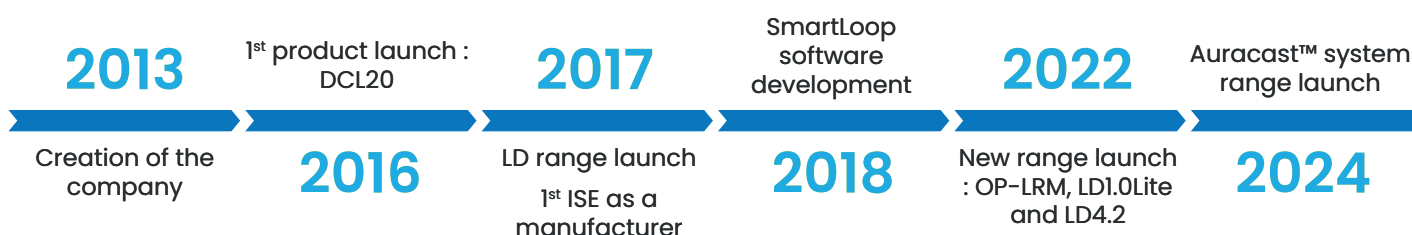
We believe in innovation and hard work to provide our customers with new solutions every year. Reliability, simplicity and the ability to listen are our trademarks.

Did you know about this REVOLUTION ?

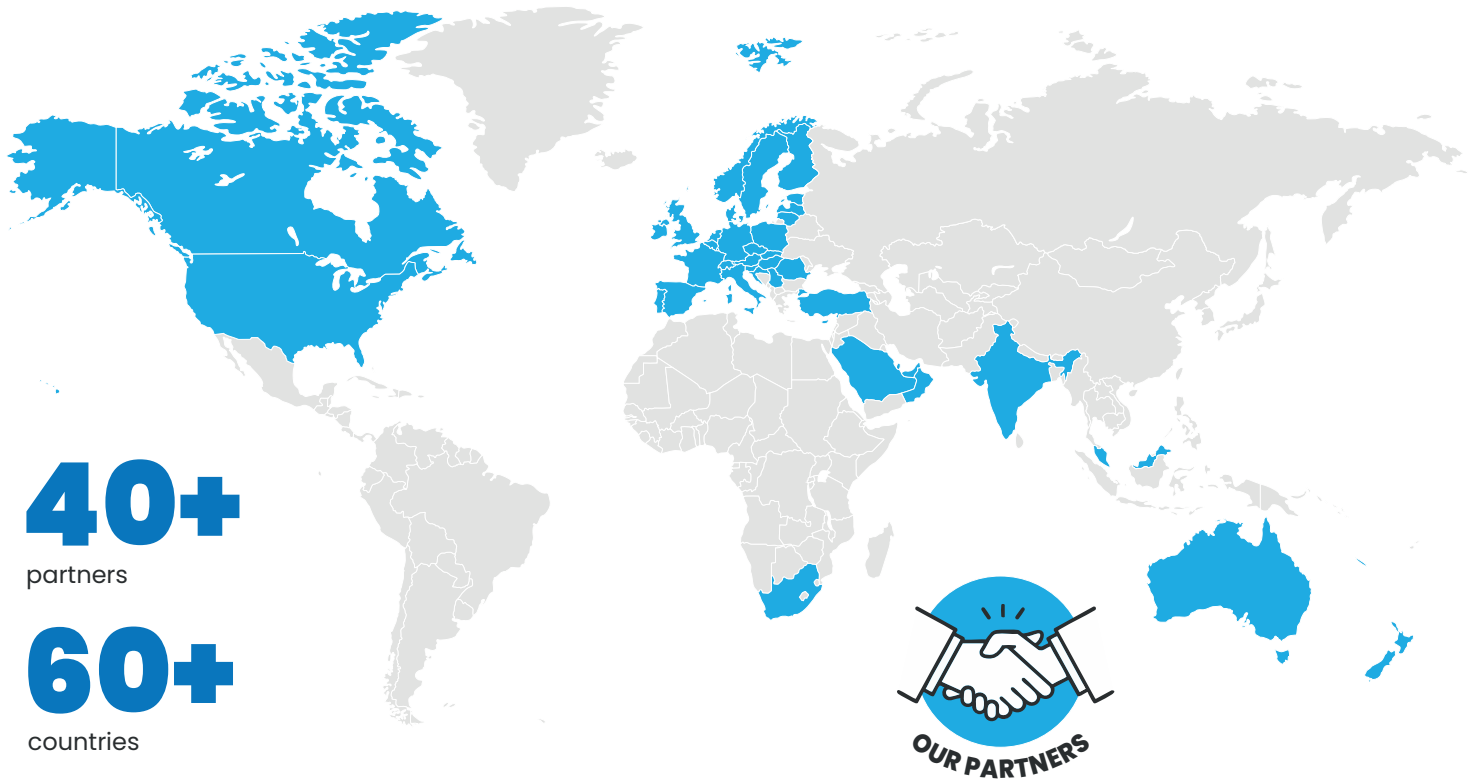
If your venue is equipped with one of our Opus Technologies loop amplifiers, then simply plug our **OP-LTT** transcriber into your smartphone to get a live transcription or translation of the speaker's speech!



OP-LTT



OUR PRESENCE ABOARD



WHY CHOOSE OPUS TECHNOLOGIES ?

	Installation	Use	Maintenance	Audio quality	Prosthesis compatibility	Type of receivers
Auracast™	Simple	Simple	Simple	Excellent Stereo	T coil & Auracast™	Auracast™ proth., Prosthesis T, Earbuds & Wireless headphones
Loop amplifier systems	Complex	Simple	Technical	Reduced Mono	T coil	Prosthesis T & Wireless headphones
UHF wireless systems	Simple	Binding	Simple	Good Stereo	T coil	Prosthesis T & Wireless headphones
Infrared systems	Simple	Binding	Simple	Good Mono	T coil	Prosthesis T & Wireless headphones
Wifi wireless systems	Technical	Complex	Simple	Good Stereo	T coil	Prosthesis T & Wireless headphones

TURN YOUR FACILITY INTO ACCESSIBLE...



...FOR HARD OF HEARING PEOPLE



AURACAST™ SYSTEMS

At Opus Technologies, we're revolutionising listening with Auracast™, a technology that makes sound **accessible, immersive** and **shared**. Whether addressing individual needs or creating a seamless audio connection in public spaces, our solutions deliver a clear, inclusive audio experience tailored to each user.

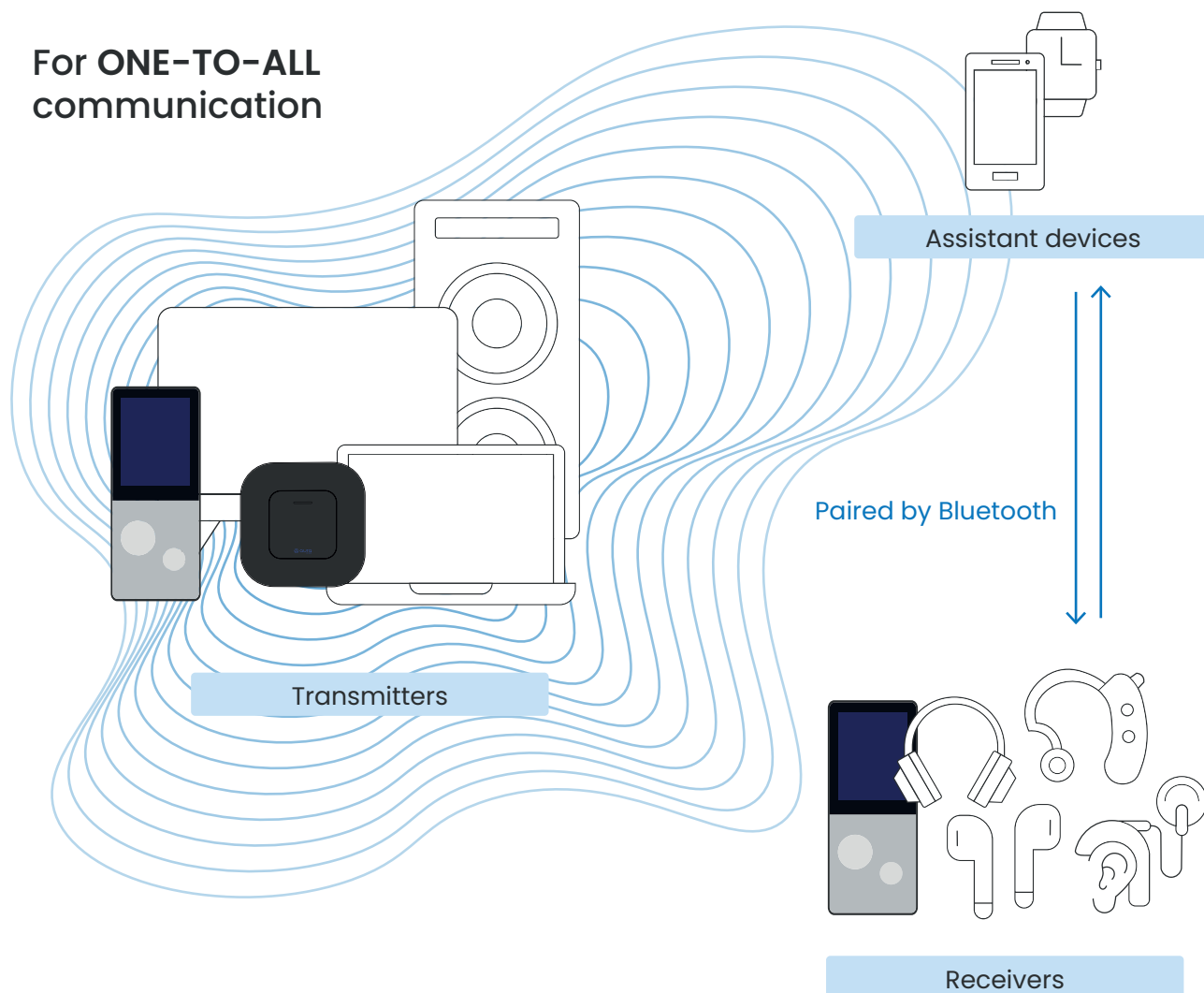
With Auracast™, we reaffirm our commitment to serving the public and **transforming public spaces** into environments where sound is both a tool for accessibility and a source of emotion. Welcome to a new era of listening, thought for everyone and everywhere.

Aura by Opus is a brand designed in France and made in EU.



AURACAST™ – HOW IT WORKS ?

For **ONE-TO-ALL** communication



KEY FIGURES

3 billion

the number of Bluetooth LE compatible audio devices by 2028

90 %

of new smartphones will support Bluetooth LE Audio by 2027

2,5 million

of public places are expected to deploy Auracast™ audio broadcasting by 2030

OUR BRAND, AURA BY OPUS

For over 10 years, Opus Technologies has been developing the best products to improve hearing assistance. With **Aura by Opus**, we are bringing to market a complete range of solutions incorporating the brand-new Auracast™ protocol.

OUR OBJECTIVES

1

Breaking down barriers

Revolutionizing audio broadcasting and its access in public venues

2

Standardize audio broadcasting

Broadcast multichannel audio from one transmitter to several types of receivers

3

Leading the audio technological revolution

By launching revolutionary R&D developments such as automatic audio translation and AI functionalities !

A NEW WAY to communicate



In an **airport**, Aura by Opus products offers a revolutionary solution for improving communication and the experience of travellers by enabling personalised, direct audio broadcasting.

A UNIVERSAL solution for all



We upgraded our famous eLoop electronic card in order to create the AuraLoop. Discover the first hybrid terminal to include both **magnetic loop** and **Auracast™** technology.

Our hybrid solution allows most hearing aids and cochlear implants to connect to our AuraLoop. Don't choose one solution over another, choose both ! Welcoming your visitors is your establishment's image.

50%

In 2026,

50 % of hearing aids will be equipped with Auracast™ technology. And this figure is estimated to rise to 100% by 2030 !

SOFT SMARTCAST

SmartCast is a simulation software for our Aura by Opus systems.

Project your installation to ensure you are using the **right product**, the **right power** and the **right number of Aura by Opus access points**. Simple and intuitive, the software is designed for quick learning.

The tool will be launched in Q2 2025. Follow us on the network and ask for a demonstration as soon as the tool is released : contact@opus-technologies.fr



IMPORTING YOUR ROOM PLANS



AUTOMATIC OR MANUAL WALL
DETECTION



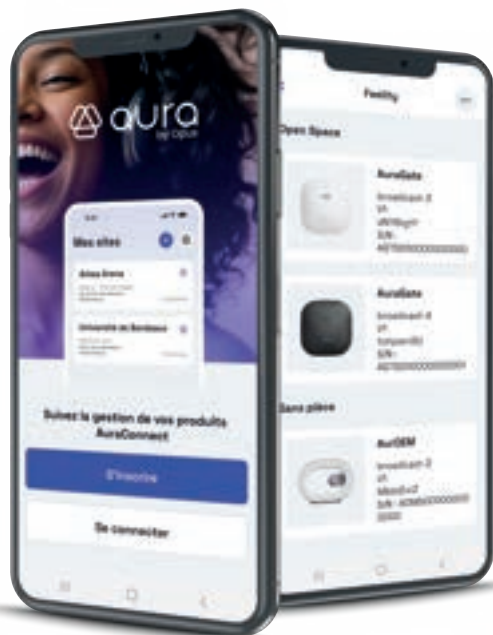
PRODUCT POSITIONING AND VISION OF
THEIR IMPACT



CHECK THAT YOUR PRODUCTS ARE IN THE
RIGHT AREA

APPLICATION AURACONNECT

AuraConnect makes configuring and managing your Aura By Opus products child's play. Designed to integrate seamlessly with the **EasyConfig** philosophy, the application makes the complicated simple. Everything is done in just a few clicks, directly from your smartphone.



Fast and INTUITIVE configuration

Add and configure your products in an instant :

Easy to add : Scan a QR Code or enter a serial number.

Customisation : Configure the broadcast power, name your broadcast, set the audio inputs, set a password and choose between mono or stereo.

Advanced controls : Take advantage of a full range of parameters to adjust your products to your needs.

Scalable MANAGEMENT adapted to your needs

AuraConnect adapts to each user thanks to two user profiles :

For owners :

Control your installation : Safely add a new installer to work on your products.

Centralised view : Find all your installations, whether they have been carried out by one or more installers.

For installers :

Manage your projects : Create a complete installation by registering the owner directly in the application.

Efficient tracking : View all the projects carried out by your company and access the records of registered owners.



HYBRID AURACAST™ AND INDUCTION LOOP SYSTEMS



AuraLoop / AuraLoop+

Designed for universal accessibility, this hybrid product integrates for the first time both an induction loop and the Auracast™ protocol. Based on this new technology, we develop unique usage features that meet today’s needs and anticipate those of the future. AuraLoop+ is supplied with an OP-M81 gooseneck microphone and an OP-E3 handset for non-hearing-aid users.

AUDIO INPUT	
Built-In Microphone	Capsule Microphone
Microphone input	1 x 3.5 mm jack
AUDIO OUPUT	
Headphone Jack	1 x 3.5 mm jack
Bluetooth Transmission Power	3 dBm
POWER SUPPLY	
Voltage / Current	5–12 V DC / 3 A
Connector	USB type C
Battery	Lithium-Ion 3.7 V / 4000 mAh
Operating Time	10 hours; 5 hours in use
Charging Time	4 hours
CONNECTIVITY	
Connectivity #1	Auracast™ (upgradable Bluetooth 5.2)
Connectivity #2	Induction Loop
Certification	Bluetooth SIG
Update	Wireless via the AuraConnect App
AUDIO	
Sampling Frequency	16 kHz
Codec Used	LC3
Connection	Via QR Code or Password or T coil
Automatic Gain Control (AGC)	Yes
TECHNICAL SPECIFICATIONS	
Induction Loop Range	1.5 m
Auracast™ Range	2.5 m (line of sight)
Internal Memory	8 Mo
PRODUCT SPECIFICATIONS	
Dimensions	250 x 185 x 80 mm
Net Weight	366 g

INSTALLATION

AuraLoop is a true plug-and-play system: simply place it at an appropriate distance between you and your interlocutor. Thanks to its mounting base, AuraLoop can also be permanently installed at a workstation.

USE

Powered either by mains electricity or its built-in battery, AuraLoop is perfectly suited for both fixed and mobile use.

Simply press the power button located on the rear of the device and AuraLoop is ready to use. For an optimal user experience, connect the OP-M81 gooseneck microphone and the OP-E3 handset included in the AuraLoop+ kit.



H SERIES – RECEPTION AREAS AND SMALL SIZE ROOMS

HDC20A



HDC20A

The new HDC from the H series combines the power of induction loop technology with the versatility of the new Auracast™ protocol.

Based on this innovative technology, we develop unique usage features designed to meet the needs of today's users and those of tomorrow.

Available in hybrid or upgradeable versions (optional Auracast™ module : ref Aura-CA), the system can cover rooms of up to 70 m², depending on the configuration.

POWER SUPPLY	
Voltage	24V DC
Current	3A
Type	External Power Supply
INPUTS	
Line Input 1	Balanced or Unbalanced Line
Microphone Input 1	Jack 3.5mm
Alimentation Phantom Mic 1	12V (activated via Dipswitch)
AURACAST™ OUTPUT	
Auracast™	Built-in
Auracast™ Connector	Connector on PCBA or 4-point Terminal Block (for deported antenna)
LOOP OUTPUT	
Number of Loop Outputs	1
Loop Connector	2 Pts – No 3.5 mm, Buchanan Series
Output Signal	Voltage – Polarized at Vin/2
Loop Output Current	3Arms
Output Voltage	48 Vpp / 3 Arms max, depending on loop characteristics
AUDIO	
Frequency Response	80Mhz-8kHz
Metallic Loss Compensation (MLC)	Adjustable MLC
Automatic Gain Control (AGC)	Voice-Optimized Peak Detection
SETTINGS AND USER INTERFACE (UI)	
Configuration	Dipswitch
Input and Output Adjustment	Potentiometer
LED	Power, Auracast™, Fault / Error, Loop

INSTALLATION

Mounted under a reception counter or directly on a wall, the HDC20 is a quick and easy to install solution. Connect the OP-ILB loop supplied in the kit (HDC20-K-K1-K2-WALL model) and adjust the amplifier to IEC standards using the OP-FSM field strength meter.

For Auracast™ functionality, simply add the device to your AuraConnect application to manage the entire configuration!

USE

The HDC20-A is the ideal solution for integrated, fixed installations at reception desks and in small areas. This discreet amplifier is designed to provide audio accessibility for people with hearing loss, whether they use hearing aids with a T-coil or Auracast™ compatible ones.

BACK VIEW



HDC20A KIT – RECEPTION RANGE

HDC20A-K



HDC20A-K

KIT CONTENTS
Phoenix Connectors
Screwdriver
OP-ILB (New Loop)
Adhesive Clip
OP-M (Surface Microphone)
Power Supply
IEC Compliant Sticker

HDC20A-K1



HDC20A-K1

KIT CONTENTS
Phoenix Connectors
Screwdriver
OP-ILB (New Loop)
Adhesive Clip
OP-M81 (Gooseneck Microphone)
Power Supply
IEC Compliant Sticker

HDC20A-K2



HDC20A-K2

KIT CONTENTS
Phoenix Connectors
Screwdriver
OP-ILB (New Loop)
Adhesive Clip
OP-M81 (Gooseneck Microphone)
Power Supply
OP-E3 (handset)
IEC Compliant Sticker

HDC20A-WALL



HDC20A-WALL

KIT CONTENTS
Phoenix Connectors
Screwdriver
OP-WALL (Loop Integrated in PMMA)
Adhesive Clip
OP-M81 (Gooseneck Microphone)
Power Supply
IEC Compliant Sticker

H SERIES – SMALL AND MEDIUM ROOMS RANGE

HMD1.0A

HMD1.2A



HMD1.0A / HMD1.2A

The HMD1.0A is a hybrid amplifier featuring a 3.5 A loop amplifier and an Auracast™ transmitter, suitable for rooms up to 100 m² with its standard 24 V 3 A power supply, and up to 150 m² when used with the PS-HMD32V power supply.

The HMD1.2A is an hybrid amplifier featuring a 2-channel loop amplifier (2 × 3.5 Arms) and an Auracast™ transmitter, suitable for rooms up to 100 m² with its standard 24 V 3 A power supply, and up to 150 m² with the PS-HMD32V power supply. It comes with a 24 V 3 A power supply.

Auracast™ broadcaster can be deported with an optional Auracast™ module ref : Aura-CA).

POWER SUPPLY	
Voltage	24V DC - 32V DC
Current	3A - 4,2A
Type	External power supply
INPUTS	
Line Input 1	Balanced or Unbalanced Line
Input 2	Line, 70 V, 100 V, or high-voltage audio
Phantom Power Mic 1	12V (activated via Dipswitch)
AURACAST™ OUTPUT	
Auracast™	Built-in
Auracast™ Connector	Connector on PCBA or 4-point Terminal Block
LOOP OUTPUT	
Number of Loop Outputs	1 (HMD1.0A) 2 (HMD1.2A)
Loop Connector	1 x 2 pts (HMD1.0A) 2 x 2 pts (HMD1.2A) – No 3.5 mm, Buchanan Series
Output Signal	Voltage – Polarized at $V_{in}/2$
Loop Output Current	3,5Arms (PS-HMD24V) 4,5Arms (PS-HMD32V)
Output Voltage	48 Vpp / 3,5 Arms max, depending on loop characteristics
Output Voltage (with PS-HMD32V Power Supply)	64 Vpp / 4.5 Arms max, depending on loop characteristics

AUDIO

Frequency Response	80Mhz-8kHz
Metallic Loss Compensation (MLC)	Adjustable MLC
Automatic Gain Control (AGC)	Voice-Optimized Peak Detection
Integrated signal generator	Pink noise and 1kHz
SETTINGS AND USER INTERFACE (UI)	
Configuration	Dipswitch
Input and Output Adjustment	Potentiometer
LED	Power, Auracast™, Fault / Error, Loop 1 (HMD1.0A), Loop 2 (HMD1.2A)

INSTALLATION

The HMD1.0A and HMD1.2A can be mounted under furniture or directly on a wall. Connect your audio source to the selected input and install your copper cabling according to the recommendations provided by Opus Technologies' Smartloop software. Adjust the amplifier to IEC standards using the OP-FSM field strength meter.

For Auracast™ functionality, simply add the device to your AuraConnect application to manage the full configuration.

USE

The HMD-A range is the ideal solution for permanent installations in rooms of up to 180 m². Ensure privacy with the 2-channel version. This discreet amplifier is designed to provide audio accessibility for people using hearing aids with a T-coil or Auracast™ compatible devices.

BACK VIEW



HMD KIT

HMD1.0A-SA



HMD1.0A-TV



HMD1.0A-SA (room)

KIT CONTENTS
Phoenix Connectors
Screwdriver
OP-M (surface microphone)
RCA cable
OP-IL50
Power Supply
IEC Compliant Sticker

HMD1.0A-TV (television)

KIT CONTENTS
Phoenix Connectors
Screwdriver
OP-M (surface microphone)
RCA cable
OP-IL50
Power Supply
IEC Compliant Sticker
OP-TOS Link

PS-HMD32V



PS-HMD32V

32 V 3 A power supply to extend the coverage of the HMD up to 150 m². With this power supply, the HMD series provides an output current of 4.2 A.

AURACAST™ SYSTEMS – TERMINALS – LARGE ROOMS

AuraGate-WH



AuraGate-BL



AuraGate-WH / AuraGate-BL

AuraGate by Opus is an innovative broadcast terminal designed to deliver a high-quality audio experience. By combining Auracast™ streaming with cutting-edge technologies, it provides smooth, stable, and faithful audio reproduction, regardless of the listening environment whether in a theater, cinema, airport, or outdoor concert.

RF	
Connectivity	Auracast™ (upgradable Bluetooth 5.2)
Operating Frequency	2402 to 2480 MHz
Auracast™ mode	Transmitter
Encryption	AES-CCM
Transmission Power	10 dBm (EU) et 20 dBm (USA)
CONTROLS	
Mechanical buttons	4 switches : 1st function: Microphone/LINE/Phantom 2nd function: BLE/CONFIG/UPDATE or AURACAST mode
Configuration	App. AuraConnect
Update	App. AuraConnect
PERIPHERALS	
Status LED	RGB Multifunction
AUDIO INPUT (AURACAST™)	
Auracast™ stereo	Quality : 16, 24 or 48 kHz
Field range	Up to 100 m (open field)
AUDIO OUTPUT (PHYSICAL)	
Mode	Mono/Stereo
Connection	3 pins (differential)
Impedance	4 ou 8 Ohm
Nominal output	400 mW
AUDIO INPUT	
LINE or MICRO inputs	2x LINE/MIC inputs (mono mixed)
100 V input	1x 100 V input
SPDIF input	1x SPDIF input
USB port	1x USB-C input
Compatible with Opus Technologies' LD product line	

AUDIO PROCESSING

Sampling rate	16 kHz
	24 kHz
	48 kHz
Codec	LC3
Frequency responses	16 kHz : 50 Hz to 7,5 kHz
	24 kHz : 50 Hz to 11 kHz
	48 kHz : 50 Hz to 19,5 kHz
Latency	30 ms
Automatic Gain Control (AGC)	Yes

POWER SUPPLY AND CHARGING

Power supply	USB-C
Secondary power supply	5 V, 300 mA
Connection to the station	USB-C / PoE

PRODUCT SPECIFICATIONS

Dimensions	190 x 190 x 50 mm
Net weight	250 g
Storage temperature	-15 to 60 °C

INSTALLATION

The AuraGate is very easy to install on a wall, ceiling, behind a screen, or even under a piece of furniture. Screw in its mounting bracket with built-in security, then snap the AuraGate into place! Configurable with the AuraConnect app.

USE

Power the AuraGate using its supplied USB-C power adapter or via PoE with the Aura-POE. At startup, set the device to engineer mode and connect to the unit thanks to your AuraConnect app. Configure the broadcast name, audio quality, range, and optionally a password and you're all set! If you opted for a secured broadcast, share the password and/or QR code with the room manager or print them out.





AuraGateNET-WH / AuraGateNET-BL

The AuraGateNET by Opus is an innovative broadcasting unit designed to deliver a high-quality audio experience. With its Dante/PoE input, it provides more flexibility than its smaller sibling, the AuraGate. Remotely manageable, it also allows audio coverage of up to 800m by daisy-chaining up to three additional AuraGates via PoE+ out. The AuraGateNET also features a secure power supply to compensate for any failure or interruption of the power delivered through the RJ45 connection.

RF	
Connectivity	Auracast™ (upgradable Bluetooth 5.2)
Operating Frequency	2402 to 2480 MHz
Auracast™ Mode	Transmitter
Encryption	AES-CCM
Transmission Power	10 dBm (EU) et 20 dBm (USA)
CONTROLS	
Mechanical buttons	4 switches : 1st function: Microphone/LINE/Phantom 2nd function: BLE/CONFIG/UPDATE or AURACAST mode
Configuration	App. AuraConnect / AuraConnect Desktop
Update	App. AuraConnect / AuraConnect Desktop
PERIPHERALS	
Status LED	Multifunction RGB
AUDIO INPUT (AURACAST™)	
Auracast™ stereo	Quality : 16, 24 or 48 kHz
Field range	Up to 150 m (open field)
AUDIO OUTPUT (PHYSICAL)	
Mode	Mono/Stereo via PoE+
Connection	3 pins (differential)
Impedance	4 ou 8 Ohm
Nominal output	400 mW
AUDIO INPUT	
LINE or MICRO inputs	2x Analog LINE/MIC inputs + Dante, POE+
DANTE	Yes (2RX 2TX)

AUDIO PROCESSING	
Sampling rate	16 kHz
	24 kHz
	48 kHz
Codec	LC3
Frequency responses	16 kHz : 50 Hz to 7,5 kHz
	24 kHz : 50 Hz to 11 kHz
	48 kHz : 50 Hz to 19,5 kHz
Latency	30 ms
Automatic Gain Control (AGC)	Yes
POWER SUPPLY AND CHARGING	
Power supply	POE
Secondary power supply	DC 33 at 57 V 2A
Connection to the station	POE
Daisy chaning connection	Up to 3 additional devices
PRODUCT SPECIFICATIONS	
Dimensions	190 x 190 x 50 mm
Net weight	350 g
Storage temperature	-15 to 60 °C

INSTALLATION

The AuraGateNET is very easy to install on a wall, ceiling, behind a screen, or even under a piece of furniture. Screw in its mounting bracket with built-in security, then snap the AuraGateNET into place! Configurable via the AuraConnect app or AuraConnect Desktop.

USE

Power the AuraGateNET using the supplied power adapter or via PoE. At startup, set the unit to engineer mode and connect it to your AuraConnect app or AuraConnect Desktop. Configure the broadcast name, audio quality, range, and optionally a password and you're all set! If you opted for a code-based connection, share the password and/or QR code with the room manager or print them out.



AURACAST™ SYSTEMS – TERMINALS – MEDIUM ROOMS

AuraGateLite



AuraGateLite

The AuraGateLite by Opus is an innovative broadcasting unit designed to deliver a high-quality audio experience in medium-sized rooms. By combining Auracast™ streaming with cutting-edge technologies, it provides smooth, stable audio that faithfully reproduces the original source, regardless of the listening environment whether it's a meeting room, classroom, waiting area, or similar.

RF	
Connectivity	Auracast™ (upgradable Bluetooth 5.2)
Operating frequency	2402 to 2480 MHz
Auracast™ Mode	Transmitter
Encryption	AES-CCM
Transmission power	0 dBm (EU)
CONTROLS	
Mechanical buttons	4 switches : 1st function: Microphone/LINE/Phantom 2nd function: BLE/CONFIG/UPDATE or AURACAST mode
Configuration	App. AuraConnect
Update	App. AuraConnect
PERIPHERALS	
Status LED	RGB Multifunction
AUDIO INPUT (AURACAST™)	
Auracast™ stereo	Quality : 16, 24 or 48 kHz
Field range	Up to 30 m (open field)
AUDIO OUTPUT (PHYSICAL)	
Mode	Mono/Stereo
Connection	3 pins (differential)
Impedance	4 ou 8 Ohm
Nominal output	400 mW
AUDIO INPUT	
LINE or MICRO inputs	2x LINE/MIC inputs (mono mixed)
SPDIF input	1x SPDIF input
USB port	1x USB-C input

AUDIO PROCESSING

Sampling rate	16 kHz
	24 kHz
	48 kHz
Codec	LC3
Frequency responses	16 kHz : 50 Hz to 7,5 kHz
	24 kHz : 50 Hz to 11 kHz
	48 kHz : 50 Hz to 19,5 kHz
Latency	30 ms
Automatic Gain Control (AGC)	Yes

POWER SUPPLY AND CHARGING

Power supply	USB-C
Secondary power supply	5 V, 300 mA
Connection to the station	USB-C / PoE

PRODUCT SPECIFICATIONS

Dimensions	190 x 190 x 50 mm
Net weight	250 g
Storage temperature	-15 to 60 °C

INSTALLATION

The AuraGateLite is very easy to install on a wall, ceiling, behind a screen, or even under a piece of furniture. Screw in its mounting bracket with built-in security, then snap the AuraGateLite into place! Configurable via the AuraConnect app.

USE

Power the AuraGateLite using the supplied USB-C power adapter or via PoE with the Aura-POE. At startup, set the unit to engineer mode and connect your AuraConnect app to it. Configure the broadcast name, audio quality, range, and optionally a password and you're all set! If you opted for a code-based connection, share the password and/or QR code with the room manager or print them out.

AURACAST™ SYSTEMS – TRANSMITTER-RECEIVER

AuraSTRX-W



AuraSTRX-B



AuraSTRX-G



AuraSTRX-W / AuraSTRX-B / AuraSTRX-G

Portable Auracast™ receiver and transmitter with touchscreen for receiving and transmitting Auracast™ streams. (Available in white/black/green)

RF	
Connectivity	Auracast™ (upgradable Bluetooth 5.2)
Operating frequency	2402 to 2480 MHz
Auracast™ Mode	Transmitter or receiver
Encryption	AES-CCM
Transmission power	10 dBm (EU)
Receive sensitivity	-95 dBm
CONTROLS	
Touch screen	2.8-inch LCD touchscreen
Mechanical button	5 buttons
Configuration	AuraConnect Desktop
Update	AuraConnect Desktop
PERIPHERALS	
QR code reader	Connect to the broadcast
Light sensor	Adjusting the screen brightness
Proximity sensor	Detects the user
Accelerometer	Detects the position of AuraSTRX
Status LED	RGB Multifunction
AUDIO OUTPUT	
Mode	Stereo ou Mono
Connection	3.5 mm / 3 or 4 pins
Impedance	16 or 32 Ohm
Nominal output	57 mW RMS per channel
AUDIO INPUT	
Connection	3.5 mm / 4 pins
Input	3.5mm micro jack
POWER SUPPLY AND CHARGING	
Power supply	USB-C or charging station
Secondary power supply	5V, 500 mA
Connection to the station	USB-C
Battery	3,7V / 1700 mAh

AUDIO PROCESSING

Sampling rate	16 kHz
	24 kHz
	48 kHz
Codec	LC3
Frequency responses	16 kHz : 50 Hz to 7,5 kHz
	24 kHz : 50 Hz to 11 kHz
	48 kHz : 50 Hz to 19,5 kHz
Latency	30 ms with an AuraGate

AUTONOMY

Screen on, TX, 10 dBm	>8 hours
Screen off, TX, 10 dBm	>20 hours
Screen on, RX	>10 hours
Screen off, RX	>50 hours

PRODUCT SPECIFICATIONS

Dimensions	130 x 60 x 14 mm
Net weight	85 g
Storage temperature	-15 to 60 °C
Protection rating	IP64

USE

The AuraSTRX from Opus Technologies is a versatile, compact device designed for seamless wireless audio streaming. It can receive Auracast™ audio directly to wired headphones or neckloop, and broadcast live audio streams to multiple devices simultaneously. Ideal for museums, conferences, guided tours, or public spaces, it ensures clear, reliable audio while supporting accessibility for all listeners. Its intuitive interface and long-lasting battery make it perfect for professional, on-the-go audio applications.

ACCESSORIES



Aura-CH5

Smart charging station with 5 slots for AuraSTRX with configuration functions



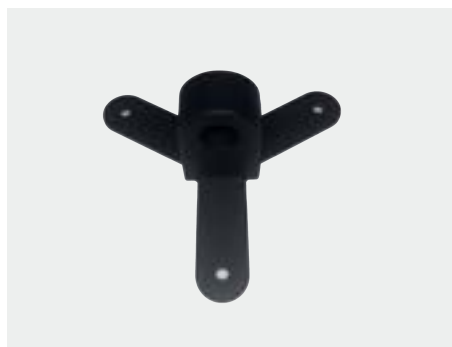
Aura-CH10 / Aura-CH10NET

Smart charging station for AuraSTRX, offering 10 slots with configuration functions (Aura-CH10) and network control capability (Aura-CH10NET)



Aura-CHACK

Shelving system for Aura-CH10 and Aura-CH10NET



Aura-FXMIC

AuraGate mounting bracket for microphone stand



AuroOEM

Auracast™ industrial adaptation card for products equipped with speakers



Aura-CA

Compact Auracast™ broadcaster for counter loop retrofitting or window intercom



Adaptateur PoE

PoE adapter to power your AuraGate with RJ45 cabling



OP-778

Professional headphones with 3.5 mm jack. More durable headphones with better sound quality.



TR-iL

Magnetic necklace to hold the magnetic loop with a 3.5 mm jack plug

AURACAST™ PACK

Aura-PACK5R



Aura-PACK5R

Complete Auracast™ set with 1 Auragate-W transmitter, 5 AuraSTRX receivers, 1 Aura-CH5 5-slot charger, 5 OP-778 headsets, 5 TR-IL magnetic loops

Aura-PACK10R



Aura-PACK10R

Complete Auracast™ system with 1 Auragate-W transmitter, 10 AuraSTRX receivers, one Aura-CH10 10-slot charger, 10 OP-778 headsets, 10 TR-IL magnetic loops

Aura-PACK5R+



Aura-PACK5R+

Complete Auracast™ set with 1 Auragate-NET-WH transmitter, 5 AuraSTRX receivers, a 5-slot Aura-CH5NET charger, 5 OP-778 headsets, 5 TR-IL magnetic loops

Aura-PACK10R+



Aura-PACK10R+

Complete Auracast™ set with 1 Auragate-NET-WH transmitter, 10 AuraSTRX receivers, 1 Aura-CH10NET 10-slot charger, 10 OP-778 headsets, 10 TR-IL magnetic loops

AURACONNECT – DESKTOP

AuraConnect Desktop is Microsoft software for the intelligent management of your AuraSTRX.



The desktop application is a centralized tool for managing, supervising, and maintaining the product fleet. It allows the various players in the ecosystem (manufacturer, distributor, installer, technician, owner) to manage the life cycle of equipment, from receipt to operation and monitoring over time. It is the main entry point for advanced management, configuration, and software updates for certain strategic products, while providing a comprehensive overview of the history of the entire fleet.



Product configuration



Management of product history, events, logs, and user assignments



User and role management



Product and serial number management



Multisite management

H SERIES – COUNTERTOP RANGE

HDC20



HDC20

The HDC20 is a 3.5 Arms loop system designed for reception desks, with the option of connecting an Opus Auracast™ transmitter (Aura-CA). It comes with a 24 V / 3 A power supply.

Available in hybrid or upgradeable versions (optional Auracast™ module). The product can cover rooms up to 70m² depending on the configuration.

POWER SUPPLY	
Voltage	24V DC
Current	3A
Type	External power supply
INPUTS	
1 line input	Balanced or Unbalanced Line
1 microphone input	Yes
Phantom Mic 1 Power Supply	12V (activated via Dipswitch)
AURACAST™ OUTPUT	
Auracast™	Not integrated
Auracast™ connector	Connector on PCBA or 4-point terminal block
LOOP OUTPUT	
Number of loop outputs	1
Loop connector	2 pts - 3.5 mm pitch Buchanan series
Output signal	Voltage - polarized at Vin/2
Loop output current	3Arms
Output voltage	48Vpp/3Arms max. depending on loop characteristics
AUDIO	
Frequency response	80Mhz-8kHz
Metallic Loss Compensation (MLC)	Adjustable MLC
Automatic gain control (AGC)	Peak detection adapted for voice
SETTINGS AND USER INTERFACE (UI)	
Configuration	Dipswitch
Input and Output Adjustment	Potentiometer
LED	Power, Auracast™, Fault / Error, Loop

INSTALLATION

Mounted under a reception counter or directly on the wall, the HDC20 is quick and easy to install. Connect the OP-ILB loop supplied in the kit (model HDC20-K-K1-K2-WALL). Adjust the amplifier to the IEC standard using the OP-FSM field strength meter. Easily turn your HDC into Auracast™ compatible by combining it with an Aura-CA compact broadcaster.

USE

The HDC20 is the ideal equipment for integrated fixed solutions, to be installed on reception counters and in small areas. This discreet amplifier is designed to provide audio accessibility to people with hearing aids equipped with a T-coil.

BACK VIEW



KIT HDC20 – FRONT DESK RANGE

HDC20-K



HDC20-K1



HDC20-K

KIT CONTENTS

Phoenix Connectors
Screwdriver
OP-ILB (New Loop)
Adhesive Clip
OP-M (Surface Microphone)
Power Supply
IEC Compliant Sticker

HDC20-K1

KIT CONTENTS

Phoenix Connectors
Screwdriver
OP-ILB (New Loop)
Adhesive Clip
OP-M81 (Gooseneck Microphone)
Power Supply
IEC Compliant Sticker

HDC20-K2



HDC20-WALL



HDC20-K2

KIT CONTENTS

Phoenix Connectors
Screwdriver
OP-ILB (New Loop)
Adhesive Clip
OP-M81 (Gooseneck Microphone)
Power Supply
OP-E3
IEC Compliant Sticker

HDC20-WALL

KIT CONTENTS

Phoenix Connectors
Screwdriver
OP-WALL (Loop Integrated in PMMA)
Adhesive Clip
OP-M81 (Gooseneck Microphone)
Power Supply
IEC Compliant Sticker

H SERIES – RANGE FOR SMALL AND MEDIUM-SIZED ROOMS



HMD1.0 / HMD1.2

The HMD1.0 is a hybrid solution integrating a 3.5A loop amplifier and an Auracast™ transmitter for rooms up to 100 m² with its standard 24 V 3 A power supply, and up to 150 m² with the PS-HMD32V power supply.

The HMD1.2 is a hybrid amplifier integrating a 2-channel loop amplifier (2x3.5 Arms) and an Auracast™ transmitter for rooms up to 100 m² with its standard 24 V 3 A power supply, and up to 150 m² with the PS-HMD32V power supply. It comes with a 24 V 3 A power supply.

Available in hybrid or upgradeable versions (optional Auracast™ module ref : Aura-CA).

POWER SUPPLY	
Voltage	24V DC - 32V DC
Current	3A - 4,2A
Type	External power supply
INPUTS	
Line Input 1	Balanced or Unbalanced Line
Input 2	Line, 70 V, 100 V, or high-voltage audio
Phantom Mic 1 Power Supply	12V (activated via Dipswitch)
AURACAST™ OUTPUT	
Auracast™	not integrated
Auracast™ connector	Connector on PCBA or 4-point terminal block
LOOP OUTPUT	
Number of loop outputs	1 (HMD1.0) 2 (HMD1.2)
Loop connector	2 pts - 3.5 mm pitch Buchanan series
Output signal	Voltage - polarized at Vin/2
Loop output current	3,5Arms (PS-HMD24V) 4,5Arms (PS-HMD32V)
Output voltage	48Vpp/3.5Arms max. depending on loop characteristics
Output voltage (with PS-HMD32V power supply)	64Vpp/4.5Arms max. depending on loop characteristics

AUDIO	
Frequency response	80Mhz-8kHz
Metallic Loss Compensation (MLC)	Adjustable MLC
Automatic Gain Control (AGC)	Voice-Optimized Peak Detection
Integrated signal generator	Pink noise and 1kHz
SETTINGS AND USER INTERFACE (UI)	
Configuration	Dipswitch
Input and Output Adjustment	Potentiometer
LED	Power supply, Auracast™, Default, Clip, Loop 1 (HMD1.0), Loop 2 (HMD1.2)

INSTALLATION

Mounted on a wall or in a dedicated cabinet, the HMD is quick and easy to install. Connect your audio source to the dedicated input. Refer to the recommendations in the Smartloop loop simulation software for cable section selection and layout, and adjust the amplifier to the IEC standard using the OP-FSM field strength meter.

USE

The HMD range is the ideal equipment for permanent, long-term solutions to be installed in rooms up to 180 m². In its 2-channel version, the HMD guarantees confidentiality. This discreet amplifier is designed to provide audio accessibility to people with T-coil or Auracast™-compatible hearing aids.



HMD KIT

HMD1.0A-SA



HMD1.0A-TV



HMD1.0-SA (room)

KIT CONTENTS
Phoenix Connectors
Screwdriver
OP-M (surface microphone)
RCA cable
OP-IL50
Power Supply
IEC Compliant Sticker

HMD1.0-TV (television)

KIT CONTENTS
Phoenix Connectors
Screwdriver
OP-M (surface microphone)
RCA cable
OP-IL50
Power Supply
IEC Compliant Sticker
OP-TOS Link

LOOP AMPLIFIER SYSTEMS

Made in France, our range of ultra-compact Class D amplifiers combine precision engineering and audio performance. Designed to offer exceptional efficiency in a compact format, these amplifiers embody French know-how at the service of professional and public environments.

Efficient, reliable and energy-efficient, our Class D amplifiers integrate easily into any project, guaranteeing **impeccable sound** and **discreet design**. With Opus Technologies, choose exceptional sound made in France.





THE LOUVRE MUSEUM

France

Equipped with Opus Technologies
loops amplifiers

LOOP AMPLIFIER – HOW IT WORKS ?

In 2024, 1,5 billion people in the world suffer from hearing loss. Most of them are equipped with hearing aid which increase the volume of nearby sounds. Unfortunately, these devices also amplify background noises which makes it difficult for its user to distinguish the right information.

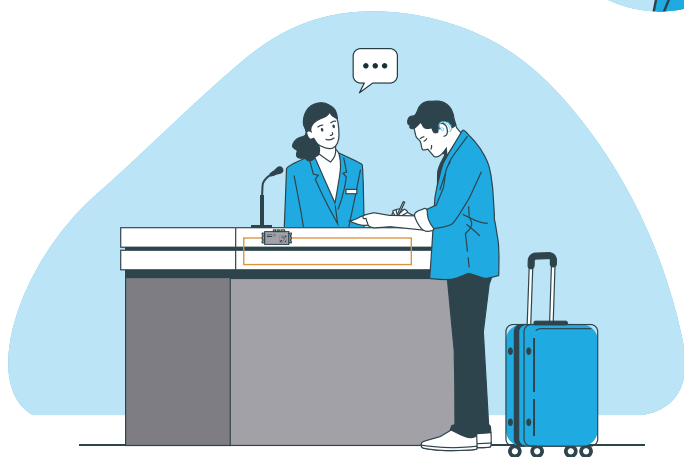
The solution is the hearing loop. The audio signal is converted by an Opus Technologies amplifier into electric pulses then transmitted into a copper cable layed down around the listening area. It generates a magnetic field transmitting the audio input directly into the user's hearing aid.

For ONE-TO-ONE communication



The hearing aid must be **activated in T mode** to pick up this magnetic signal using an integrated copper telecoil (or T coil). The signal is then translated into audio and pure, clear sound is transmitted to the user's ear.

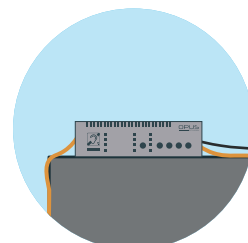
Hearing loops (here, a **DCL20**) can be used in a wide range of installations, such as one-to-one communications at **reception desks, ticket counters, money exchange** and many more...



For LARGER listening area

Everywhere audio is essential, you can install a hearing loop system (here, a **LD1.0**) and make your facility more inclusive. Loop systems can be found in theatres, stadium, museum, supermarket, university, courtroom and many more.

You will find for example Opus loop drivers in Louvre museum, Orly airport or Cannes Festival Palace.

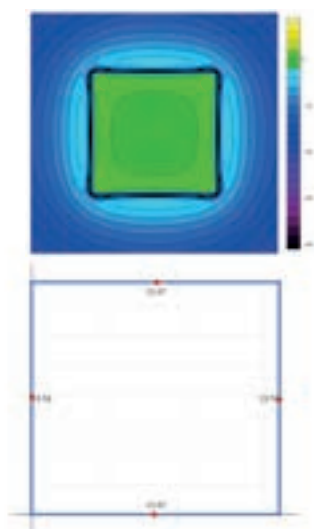


HOW TO DESIGN A LOOP SYSTEM ?

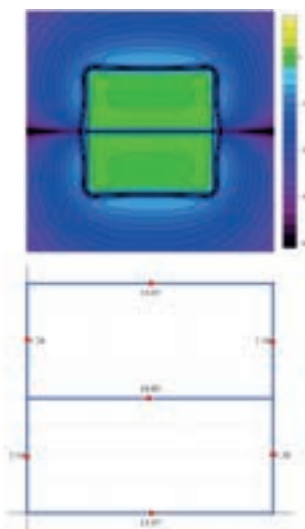
If loop systems operation mode, seems pretty easy to understand, choosing and installing an efficient and functioning system is a different story.

A lot of constraints must be taken in account prior the installation of a loop system. The presence of metal structure absorbing the magnetic field strength, the containment of its overspill to the strict dimension of the room, the listening height, are some of the numerous constraints you should take in account while designing a loop system.

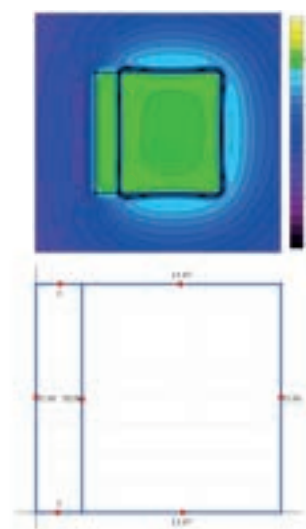
ONE-LOOP SYSTEMS



PERIMETER LOOP

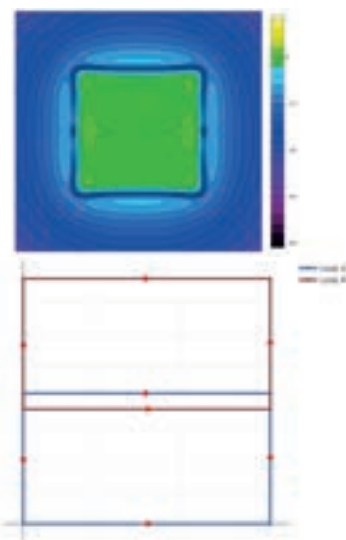


SINGLE ARRAY

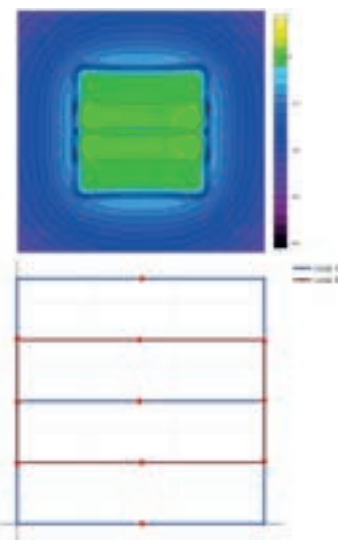


CANCELLATION LOOP

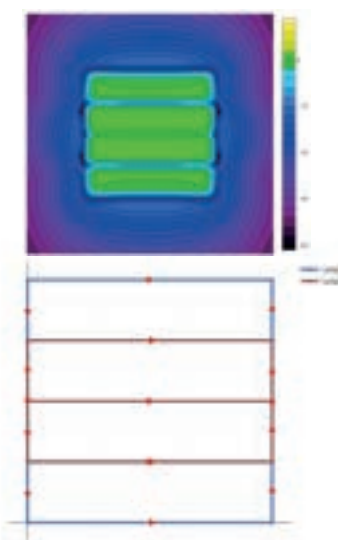
TWO-LOOP SYSTEMS



DOUBLE ARRAY



LOW LOSS ARRAY



ULTRA LOW LOSS ARRAY

OPUS SMARTLOOP

Opus Technologies' SmartLoop software is a combination of years of experience in the installation of loop design and the technological know-how of our software engineer. This powerful tool, allows our customers, finding the right layout and amplifier taking in account all the constraints of their loop project.

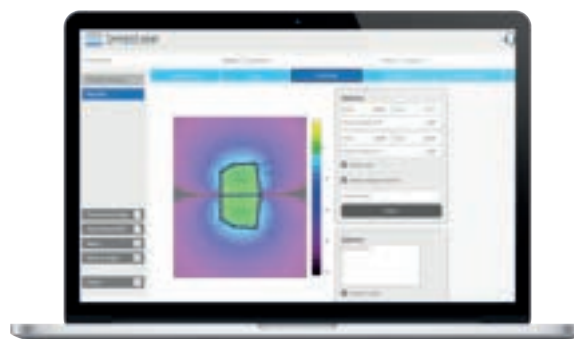
Thanks to its user-friendly interface, loop design and specification process has never been that easy! SmartLoop aims to guarantee your customer a loop installation guideline allowing your system to comply with the IEC 60118-4 norm but above all, an efficiently working loop system.

SmartLoop is a designing tool, easy to handle, complete, allowing Opus distributor and installers to demonstrate their ability to offer a performant installation based on accurate and detailed technical studies.

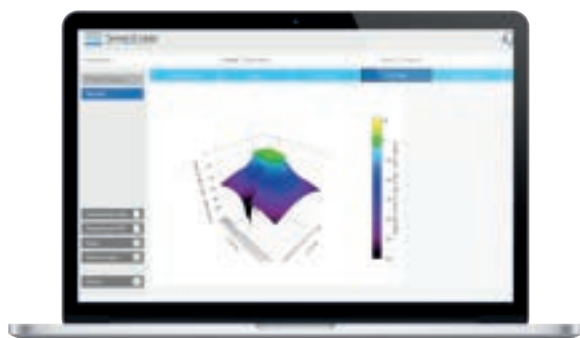
To use SmartLoop software, make a request to create an account on our website www.opus-technologies.fr, get closer to your local distributor or contact us at contact@opus-technologies.fr.



SIMULATION OF YOUR CABLE IMPLEMENTATION



CHECK IF YOUR COVERAGE IS HOMOGENEOUS WITH THE 2D SIMULATION



GET A 3D SIMULATION OF YOUR AUDIO RECEPTION



CHECK IF YOUR SIGNAL REMAINS STEADY INSIDE THE LISTENING AREA

LOOP AMPLIFIER SYSTEMS – PROXIMITY AMPLIFIERS



eLoop / eLoop+

eLoop is the latest generation of Opus Technologies counter loop amplifier. Traditionally utilitarian, grey products that can act as an obvious signpost towards a customer’s disability, eLoop brings a new design perspective with a portable counter hearing loop that is positively stylish.

eLoop+ comes with an OP-M81 goose neck microphone and an OP-E3 handset for non fitted people.

AUDIO INPUT	
Integrated microphone	Capsule microphone
Microphone plug	1x Jack 3,5 mm
Phantom power supply	5 V, 1 mA
AUDIO OUTPUT	
Headphone plug	1x 3,5 mm Micro Jack
POWER SUPPLY	
Voltage / Current	5 V DC / 1,5 A
Connector	Micro USB
Battery	Lithium Ion 3,7 V
Autonomy	10 hours
Charge time	4 hours
TECHNICAL SPECIFICATIONS	
Current	3,5 A RMS
Protections	Thermal resistance, overload
Coverage	1,10 m
PRODUCT SPECIFICATIONS	
Dimensions	250 x 185 x 80 mm
Net weight	366 g
Packaging	Cardboard
Shipment dimensions	400 x 250 x 100 mm
Shipment weight	1,00 kg



DCL20

DLC20 is the ideal equipment for long term permanent solutions, to be installed on counters and small areas. This discrete driver, intend to provide audio accessibility for people suffering hearing loss, in every public facility.

INPUT	
Audio input	1x microphone + 1x line input
Connector type	1x 3,5 mm Micro Jack + Phoenix
Phantom supply	4,5 V, 1 mA
POWER SUPPLY	
Characteristics	12 V DC / 1,5 A
Type	Separated power block
Voltage	230 V, 50/60 Hz
Power	< 20 W
Fuse	Thermal
AUDIO PROCESSOR	
Compression	From 1:1 to 20:1
Etching	10 mS
Lowering	Auto. 500 mS or 1500 mS
Bandwidth	From 80 Hz to 8kHz at -3 dB
Dynamic	> 0 dB
THD	THD+N < 0,5 % at 1 kHz
OUTPUT	
Type	Current
Loop impedance	From 0,5 Ω to 3,0 Ω
Peak current	4 A
RMS current	2 A at 1 kHz
Protection	Thermal, sort circuit and start
PRODUCT SPECIFICATIONS	
Dimensions	100 x 50 x 20 mm
Net weight	83 g
Packaging	Cardboard



DCL20-K

- DCL20 kit with :
- DCL20 amplifier
 - Microphone OP-M
 - Power supply
 - Loop OP-iL
 - Stickers
 - Screwdriver and Phoenix



DCL20-K1

- DCL20 kit with :
- DCL20 amplifier
 - Microphone OP-M81
 - Power supply
 - Loop OP-iL
 - Stickers
 - Screwdriver and Phoenix



DCL20-K2

- DCL20 kit with :
- DCL20 amplifier
 - Microphone OP-M81
 - Receiver OP-E3
 - Power supply
 - Loop OP-iL
 - Stickers
 - Screwdriver and Phoenix



DCL20-E3

- DCL20 kit with :
- DCL20 amplifier
 - Microphone OP-M
 - Receiver OP-E3
 - Power supply
 - Loop OP-iL
 - Stickers
 - Screwdriver and Phoenix



DCL20-TV

- DCL20 kit with :
- DCL20 amplifier
 - Microphone OP-M
 - 30 m of copper coil
 - Adapter OP-TosLink
 - Power supply
 - Stickers
 - Screwdriver and Phoenix



DCL20-SA

- DCL20 kit with :
- DCL20 amplifier
 - Microphone OP-M
 - 30 m of copper coil
 - Power supply
 - Stickers
 - Screwdriver and Phoenix



DCL20-WALL

- DCL20 kit with :
- DCL20 amplifier
 - Microphone OP-M
 - Pictogram OP-WALL2
 - Power supply
 - Stickers
 - Screwdriver and Phoenix



DCL20-PLUG

- DCL20 kit with :
- DCL20 amplifier
 - Microphone OP-M
 - Stand OP-PLUG
 - Power supply
 - Stickers
 - Screwdriver and Phoenix

LOOP AMPLIFIER SYSTEMS – ACCESSORIES



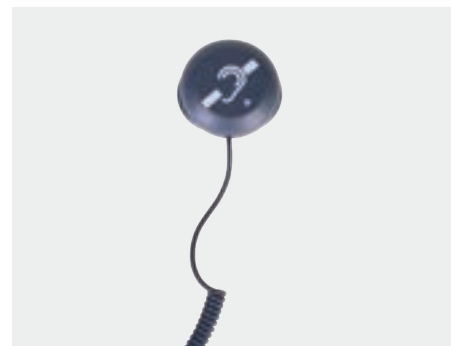
OP-TosLink

5 V DC digital optical coaxial analog audio signal adapter.



OP-WALL2

Induction loop integrated into an «Area adapted for hearing-impaired» pictogram, to fix on a wall or on its OP-CW2 easel



OP-E3

An earphone who provide hearing accessibility for hearing impaired non-equipped with hearing aids



OP-M

Surface mount microphone for DCL20, with 3.5 mm jack plug. Economical solution supplied with a self-adhesive mounting base



OP-M81

Goose neck microphone who provide a clear and audible sound in all circumstances for people wearing hearing aids



CE-1

Universal stereo headphones, reliable and optimised for multimedia use

LOOP AMPLIFIER SYSTEMS – MEASURING/RECEIVERS TOOLS



OP-LTT

Loop transcriber receiver for smartphone



OP-LRM

This device allows you in the same time to check if you installation comply to the standard IEC 60118-4 thanks it 4 led testimony



OP-FSM-02

Field Strength Measurer to measure loop system performance and guarantee commissioning complying with the IEC 60118-4 norm

LOOP AMPLIFIER SYSTEMS – ROOM AMPLIFIERS



LD1.0Lite

You've heard of the LD1.0, now discover the LD1.0Lite. Even more compact, the LD1.0Lite has 2 audio inputs and can cover a room of 180 m². Its low power consumption will be appreciated, in addition to its LED display.

Max coverage : single loop	180 m ² *
INPUT	
Audio inputs	2 inputs : 1 line + 1 mic
Type	2 and 3 pts connects
Power supply	12 V, 2 mA
Sensitivity	-50 dB microphone
POWER SUPPLY	
Type	Integrated
Voltage	115/230 V, 50/60 Hz
Power	200 VA
Consumption	6 W
AUDIO FEATURES	
Automatic Gain Control	> 36 dB
Bandwidth	80 to 9500 Hz
OUTPUT	
Loop impedance	0,5 to 3,0 Ω
Output voltage	34 V _{rms} (48 pk)
Peak current	8 A
RMS current	4 A RMS
ADDITIONAL FEATURES	
Defects	LED display protect
Verification	DC current too high
Cooling	Natural cooling
IP class	IP20
Frequency of response	40 to 9000 Hz
PRODUCT SPECIFICATIONS	
Dimensions	42 x 200 x 215 mm
Net weight	1,50 kg

*Coverage given as an indication subject to room installation constraints (metal, listening height, geometry, etc). A SmartLoop study is strongly recommended.



LD4.0 / LD4.2

Do you have even larger rooms and an LD3.2 can't cover your entire area ? Discover the LD4.X ! With its coverage of 3300 m², you'll no longer have any constraints. This device has 3 inputs: 2 switchable lines or microphones and a 100 V input.

The amplifiers incorporate a fault synthesis controlling continuously both loop and amplifier. The information is visible on the front panel and deported thanks to a dry contact.

Max coverage : single loop	LD4.0 : 1300 m ² * LD4.2 : 3300 m ² *
LOOP INPUT	
Audio input	2x LINE/Microphone + 1x 100 V
Phantom supply	12 V, 2 mA
Connector type	Phoenix and/or Combo Neutrik
Automatic Gain Control (AGC)	> 36 dB
LOOP OUTPUT	
Max current	LD4.0 : 1x 15A RMS / 42,4 V _{pp} LD4.2 : 2x 15A RMS / 2x 42,4 V _{pp}
Max tension	LD4.0 : 1x 34 V RMS / 96 V _{pp} LD4.2 : 2x 34 V RMS / 2x 96 V _{pp}
Connections	1x (LD4.0) or 2x (LD4.2) Neutrik NL4 speakON-socket, layout 1+/1-
Frequency range	100 to 5000 Hz (± 3 dB)
Distortion	< 1 % at rated output power 1 kHz
POWER SUPPLY	
Voltage	90/265 V AC, 50/60 Hz
Passive protection	3,15 Afuse
SETTING AND DISPLAY	
Gain adjustment	IN1, IN2, IN3
Treble control	0 to 9 dB
ADDITIONAL FUNCTIONS	
LED display	Power, Input gain level, Magnetic loop current
Headphone	Headphone output 6,35 mm Jack
PRODUCT SPECIFICATIONS	
Dimensions	42 x 200 x 215 mm
Net weight	1,56 kg

LOOP AMPLIFIER SYSTEMS – ROOM AMPLIFIERS



LDX.0

Opus Technologies LD1.0, LD2.0 and LD3.0 are a new generation of class D loop amplifier with a single output designed for medium and large sized facilities.

These devices have 3 inputs : 2 switchable lines or microphones and a 100 V priority input. The amplifiers incorporate a fault synthesis controlling continuously both loop and amplifier. The information is visible on the front panel and deported thanks to a dry contact.

LD1.0

LD2.0

LD3.0

Max coverage : single loop	250 m ² (10 x 25 m ²)*	450 m ² (15 x 30 m ²)*	900 m ² (20 x 45 m ²)*
Operation temperature	0 to 45 °C	0 to 45 °C	0 to 45 °C
Storage temperature	-30 to 70 °C	-30 to 70 °C	-30 to 70 °C
INPUT			
Audio inputs	2x line/microphone + 1x 100 V	2x line/microphone + 1x 100 V	2x line/microphone + 1x 100 V
Connector type	Phoenix and/or Combo Neutrik	Phoenix and/or Combo Neutrik	Phoenix and/or Combo Neutrik
Phantom supply	12 V, 2 mA	12 V, 2 mA	12 V, 2 mA
Sensitivity	-50 dB microphone	-50 dB microphone	-50 dB microphone
Priority	100 V input, INPUT 1	100 V input, INPUT 1	100 V input, INPUT 1
POWER SUPPLY			
Type	Integrated	Integrated	Integrated
Voltage	115/230 V, 50/60 Hz	115/230 V, 50/60 Hz	115/230 V, 50/60 Hz
Power consumption at 1 Ohm	25 W	50 W	90 W
Max. input power	< 250 V AC	< 300 V AC	< 350 V AC
Consumption at rest	9 W at 230 V AC	9 W at 230 V AC	9 W at 230 V AC
AUDIO CHARACTERISTICS			
THD	< 0,5 %, 1 Ohm, 1 kHz	< 0,5 %, 1 Ohm, 1 kHz	< 0,5 %, 1 Ohm, 1 kHz
Automatic Gain Control	> 36 dB	> 36 dB	> 36 dB
Bandwidth	80 to 9500 Hz	80 to 9500 Hz	80 to 9500 Hz
OUTPUT			
Loop impedance	0,5 to 3,0 Ω	0,5 to 3,0 Ω	0,5 to 3,0 Ω
Output voltage	34 V RMS (48 pk)	34 V RMS (48 pk)	34 V RMS (48 pk)
Peak current	8 A	11 A	15 A
RMS current (at 1 kHz)	5 A RMS	7 A RMS	10 A RMS
Slave output	0° or 90° phase shift	0° or 90° phase shift	0° or 90° phase shift
ADDITIONAL FUNCTIONS			
LED display	Power, Protect, Clip and Loop	Power, Protect, Clip and Loop	Power, Protect, Clip and Loop
Metal loss correction	0 to 3 dB per octave	0 to 3 dB per octave	0 to 3 dB per octave
Relay	NO/NC fault relay, 0,5 A/125 V AC, 1 A/24 V DC	NO/NC fault relay, 0,5 A/125 V AC, 1 A/24 V DC	NO/NC fault relay, 0,5 A/125 V AC, 1 A/24 V DC
PRODUCT SPECIFICATIONS			
Dimensions	42 x 200 x 215 mm	42 x 200 x 215 mm	42 x 200 x 215 mm
Net weight	1,48 kg	1,48 kg	1,48 kg

*Coverage given as an indication subject to room installation constraints (metal, listening height, geometry, etc). A SmartLoop study is strongly recommended.



LDX.2

Opus Technologies LD1.2, LD2.2 and LD3.2 are a new generation of class D loop amplifier with a double output designed for large sized facilities.

These devices have 3 inputs : 2 switchable lines or microphones and a 100 V priority input. The amplifiers incorporate a fault synthesis controlling continuously both loop and amplifier. The information is visible on the front panel and deported thanks to a dry contact.

LD1.2

LD2.2

LD3.2

Max coverage : single loop	600 m ² (15 x 40 m ²)*	1200 m ² (20 x 60 m ²)*	2000 m ² (25 x 80 m ²)*
Max coverage : multi loop	300 m ² (10 x 30 m ²)*	525 m ² (15 x 35 m ²)*	1000 m ² (20 x 50 m ²)*
Operation temperature	0 to 45 °C	0 to 45 °C	0 to 45 °C
Storage temperature	-30 to 70 °C	-30 to 70 °C	-30 to 70 °C
INPUT			
Audio inputs	2x line/microphone + 1x 100 V	2x line/microphone + 1x 100 V	2x line/microphone + 1x 100 V
Connector type	Phoenix and/or Combo Neutrik	Phoenix and/or Combo Neutrik	Phoenix and/or Combo Neutrik
Phantom supply	12 V, 2 mA	12 V, 2 mA	12 V, 2 mA
Sensitivity	-50 dB microphone	-50 dB microphone	-50 dB microphone
Slave entry	Jack 6,35 mm	Jack 6,35 mm	Jack 6,35 mm
Priority	100 V input, INPUT 1	100 V input, INPUT 1	100 V input, INPUT 1
POWER SUPPLY			
Type	Integrated	Integrated	Integrated
Voltage	115/230 V, 50/60 Hz	115/230 V, 50/60 Hz	115/230 V, 50/60 Hz
Power consumption at 1 Ohm	50 W	100 W	180 W
Max. input power	< 500 V AC	< 600 V AC	< 700 V AC
Consumption at rest	14 W at 230 V AC	14 W at 230 V AC	14 W at 230 V AC
AUDIO CHARACTERISTICS			
THD	< 0,5 %, 1 Ohm, 1 kHz	< 0,5 %, 1 Ohm, 1 kHz	< 0,5 %, 1 Ohm, 1 kHz
Automatic Gain Control	> 36 dB	> 36 dB	> 36 dB
Bandwidth	80 to 9500 Hz	80 to 9500 Hz	80 to 9500 Hz
Phase shift	Included	Included	Included
OUTPUT			
Loop impedance	0,5 to 3,0 Ω	0,5 to 3,0 Ω	0,5 to 3,0 Ω
Output voltage	34 V RMS (48 pk)	34 V RMS (48 pk)	34 V RMS (48 pk)
Peak current	2x 8 A	2x 11 A	2x 15 A
RMS current (at 1 kHz)	2x 5 A RMS	2x 7 A RMS	2x 10 A RMS
ADDITIONAL FUNCTIONS			
LED display	Power, Protect 1, Protect 2, Loop	Power, Protect 1, Protect 2, Loop	Power, Protect 1, Protect 2, Loop
Verification	Open loop, thermal protection	Open loop, thermal protection	Open loop, thermal protection
Relay	NO/NC fault relay, 0,5 A/125 V AC, 1 A/24 V DC	NO/NC fault relay, 0,5 A/125 V AC, 1 A/24 V DC	NO/NC fault relay, 0,5 A/125 V AC, 1 A/24 V DC
PRODUCT SPECIFICATIONS			
Dimensions	42 x 200 x 215 mm	42 x 200 x 215 mm	42 x 200 x 215 mm
Net weight	1,56 kg	1,56 kg	1,56 kg

*Coverage given as an indication subject to room installation constraints (metal, listening height, geometry, etc.). A SmartLoop study is strongly recommended.

LOOP AMPLIFIER SYSTEMS – MOBILE AMPLIFIERS



LDP1.0

LD kit with :

- Storage suitcase
- Amplifier LD1.0
- Receiver OP-LRM
- 100 m connection cable



LDP2.0

LD kit with :

- Storage suitcase
- Amplifier LD2.0
- Receiver OP-LRM
- 100 m connection cable



LDP3.0

LD kit with :

- Storage suitcase
- Amplifier LD3.0
- Receiver OP-LRM
- 100 m connection cable



LDP1.0M

LD kit with :

- Storage suitcase
- Amplifier LD1.0
- Receiver OP-LRM
- Portable transmitter OP-8TH
- Fixed receiver OP-10SRX
- 100 m connection cable



LDP2.0M

LD kit with :

- Storage suitcase
- Amplifier LD2.0
- Receiver OP-LRM
- Portable transmitter OP-8TH
- Fixed receiver OP-10SRX
- 100 m connection cable



LDP3.0M

LD kit with :

- Storage suitcase
- Amplifier LD3.0
- Receiver OP-LRM
- Portable transmitter OP-8TH
- Fixed receiver OP-10SRX
- 100 m connection cable

LOOP AMPLIFIER SYSTEMS – AMPLIFIERS ACCESSORIES



OP-V

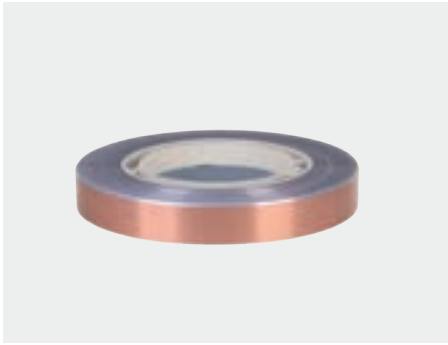
Plexiglas protection to lock settings on an LD serie amplifier. Delivered with 4 screws



OP-R

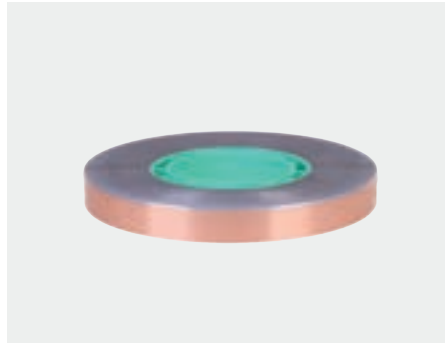
Mounting kit for wall or rack, 1U 19" for 1 or 2 LD series amplifier

LOOP AMPLIFIER SYSTEMS – CABLING



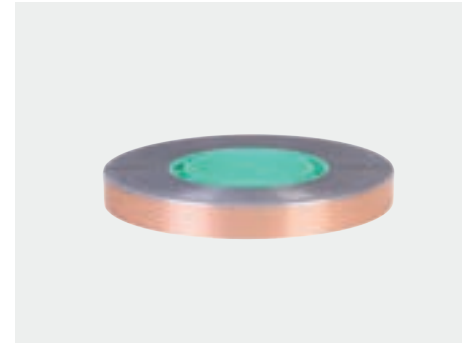
RC50

Flat copper tape for an under flooring installation
Section : 1,8 mm
Length : 50 m



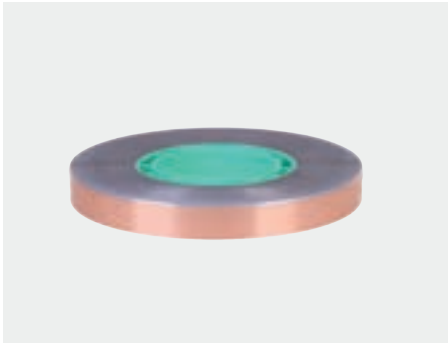
RC100

Flat copper tape for an under flooring installation
Section : 1,8 mm
Length : 100 m



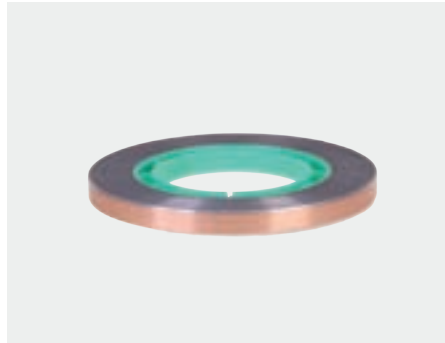
RC150

Flat copper tape for an under flooring installation
Section : 1,8 mm
Length : 150 m



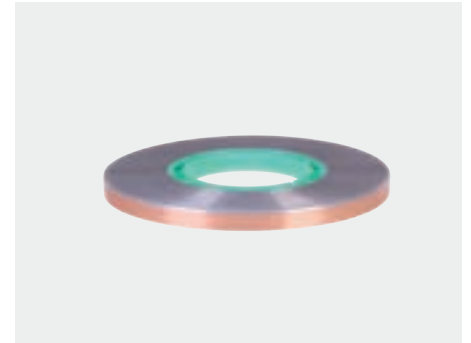
RC025-100

Flat copper tape for an under flooring installation
Section : 25,0 mm
Length : 100 m



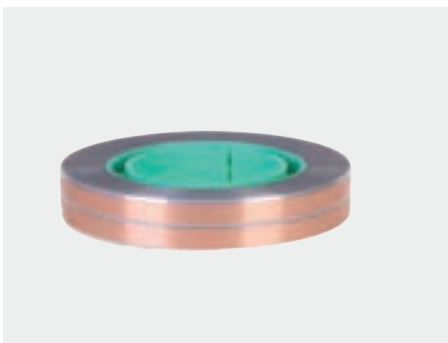
RC01-50

Flat copper tape for an under flooring installation
Section : 1,0 mm
Length : 50 m



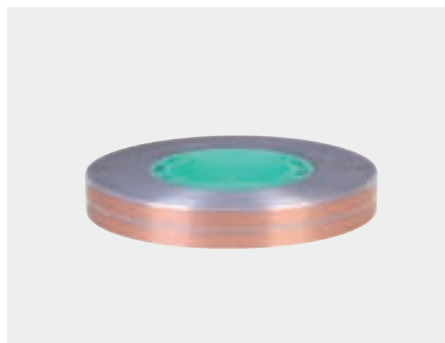
RC01-100

Flat copper tape for an under flooring installation
Section : 1,0 mm
Length : 100 m



RC02-50

Flat copper tape for an under flooring installation
Section : 2x 1,0 mm
Length : 50 m



RC02-100

Flat copper tape for an under flooring installation
Section : 2x 1,0 mm
Length : 100 m



ADH-RC

This tape covers the copper wire when installing a magnetic loop on the ground and signal it and protect it from being cut by a « DO NOT CUT » warning.

LOOP AMPLIFIER SYSTEMS – CABLING



LC-50

Multi-section cable to be installed on the floor, in walls or in ceilings
Composition : 7x 0,25 and 1x 0,75
Section : 0,25 to 2,50 mm²
Length : 50 m



LC-100

Multi-section cable to be installed on the floor, in walls or in ceilings
Composition : 7x 0,25 and 1x 0,75
Section : 0,25 to 2,50 mm²
Length : 100 m



LC-150

Multi-section cable to be installed on the floor, in walls or in ceilings
Composition : 7x 0,25 and 1x 0,75
Section : 0,25 to 2,50 mm²
Length : 150 m



OP-LI5

Shielded cable to ensure connection between rack and Opus amplifier
Length : 5 m



OP-LI10

Shielded cable to ensure connection between rack and Opus amplifier
Length : 10 m



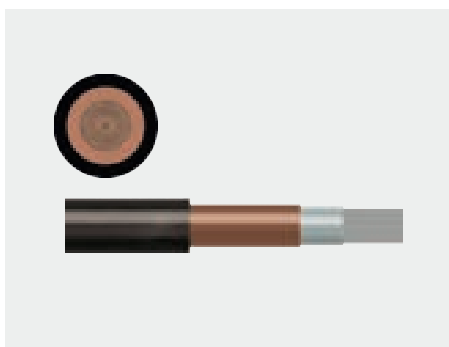
OP-LI15

Shielded cable to ensure connection between rack and Opus amplifier
Length : 15 m



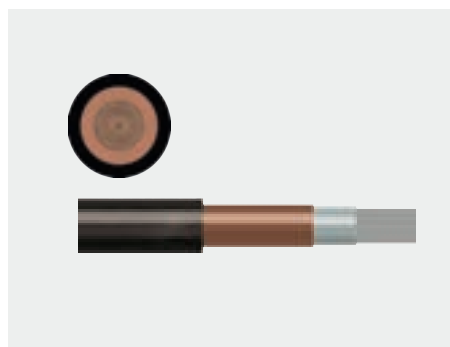
C10-RC

Connection terminal block between copper foil (RC) and connection cable (OP-LI). Set of 10 units



DBLC15-100

Direct burial loop cable. EPRCSP and HOFR insulation
Section : 1,5 mm²
Length : 100 m



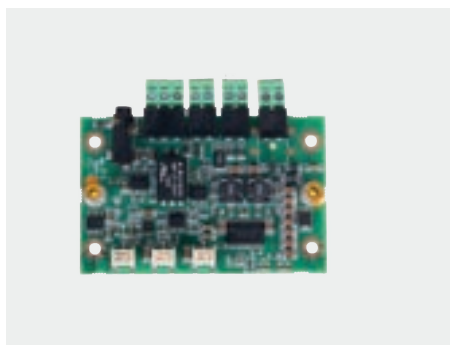
DBLC25-100

Direct burial loop cable. EPRCSP and HOFR insulation
Section : 2,5 mm²
Length : 100 m

LOOP AMPLIFIER SYSTEMS – OEM

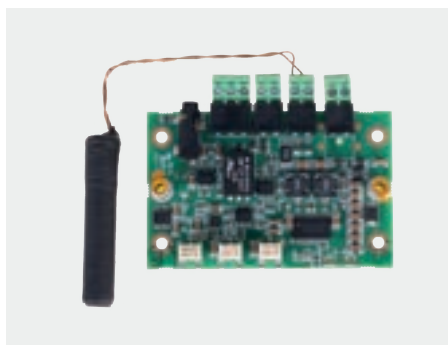
Your project becomes our project !

If you are a manufacturer of intercom systems, audio communication terminals or ticket machines, your project becomes ours. We can help you integrate technical solutions to make your equipment accessible to the hearing impaired. Want to find out more ? Write to us at contact@opus-technologies.fr



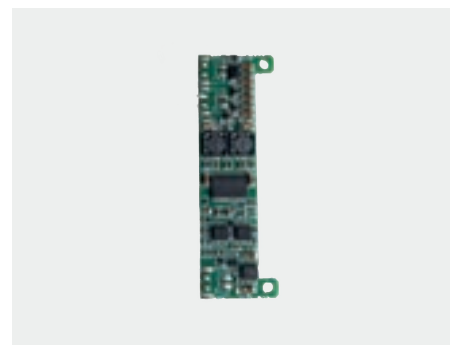
OP-IB01

Proximity amplifier electronic board
- Driver only



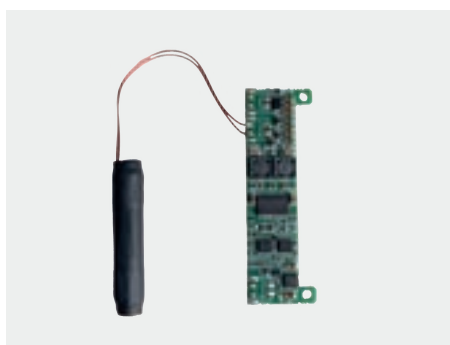
OP-IB01N

Proximity amplifier electronic board
- Driver with ferrite loop



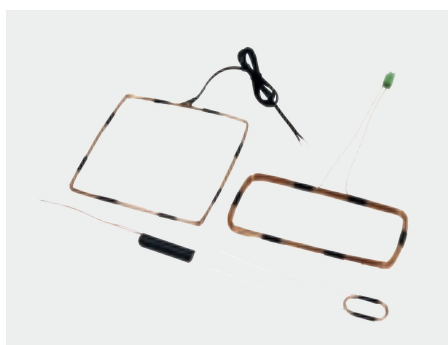
OP-IB02

Compact amplifier circuit board with
terminal block - Driver only



OP-IB02N

Compact amplifier circuit board with
terminal block - Driver with ferrite
loop



Loop antenna

Do you have a specific project and
need a precise size of magnetic loop?
Just ask us!

WINDOW INTERCOMS

Discover Opus Technologies' window intercom range. Our window intercom allows **clear conversations** when communications are altered by barriers such as mask, double glazing, security screen, or other counter security systems. It makes conversation easier for people struggling to understand **clearly a conversation** especially in a noisy environment. The intercoms fit in many types of environments such as banks, train stations, ticket offices, money exchange...

A loop solution is available for every Opus Technologies intercom system, facilitating communications for hearing device wearers.



WINDOW INTERCOMS – TACTILE PAD



OP-6505H

Counter intercom consisting of a desk microphone with loudspeaker on the agent's side and a loudspeaker/microphone on the customer's side. The microphone on the customer side is fixed to the window or to a smooth wall.

AUDIO	
Voice reception	No delays
Audio coding	PCM/CAA
Signal to noise	> 90 dB
Response frequency	20 to 16000 Hz
Sampling rate	8 to 32 kHz
Volume	Adjustable 1 to 15
INPUT	
Jack	3,5 mm
TECHNICAL FEATURES	
Power supply	12 V DC, 1,5 A
Energy consumption	< 5 W
Interface	1x RJ45 Ethernet port, 1x power input, 1x recording port and 1x internal external connector
Listening mode	3 : standard, quiet and noisy
PRODUCT SPECIFICATIONS	
Agent side intercom	160 x 95 x 46,5 mm
Customer side speaker	102 x 83 x 24 mm
Packaging	Cardboard



OP-6505HB

- OP-6505H kit with :
- Intercom OP-6505H
 - Magnetic loop DCL20-65



OP-6505HK

- OP-6505H kit with :
- Intercom OP-6505H
 - Headphone HD-1022



OP-6505HBK

- OP-6505H kit with :
- Intercom OP-6505H
 - Magnetic loop DCL20-65
 - Headphone HD-1022

WINDOW INTERCOMS – TACTILE PAD



OP-6515H

Counter intercom consisting of a desk microphone with loudspeaker on the agent's side and a loudspeaker/microphone on the customer's side. The microphone on the customer side is induction-sensitive, so it can be placed either on a window or on the counter.

AUDIO	
Voice reception	No delays
Audio coding	PCM/CAA
Signal to noise	> 90 dB
Response frequency	20 to 16000 Hz
Sampling rate	8 to 32 kHz
Volume	Adjustable through webpage
INPUT	
Jack	3,5 mm
TECHNICAL FEATURES	
Power supply	12 V DC, 1,5 A
Energy consumption	< 5 W
Interface	1x RJ45 Ethernet port, 1x power input, 1x recording port and 1x internal external connector
Listening mode	3 : standard, quiet and noisy
Microphone capsule	Ultracardioid
PRODUCT SPECIFICATIONS	
Agent side intercom	160 x 95 x 46,5 mm
Customer side speaker	102 x 83 x 24 mm
Packaging	Cardboard



OP-6515HB

OP-6505H kit with :

- Intercom OP-6515H
- Magnetic loop DCL20-65



OP-6515HK

OP-6505H kit with :

- Intercom OP-6515H
- Headphone HD-1022



OP-6515HBK

OP-6505H kit with :

- Intercom OP-6515H
- Magnetic loop DCL20-65
- Headphone HD-1022

WINDOW INTERCOMS – TACTILE PAD



STI-01

Counter intercom consisting of a desk microphone with loudspeaker on the agent's side and a loudspeaker/microphone on the customer's side. The microphone on the customer side is fixed to the window or to a smooth wall.

AUDIO	
Voice reception	No delays
Recording ouput	> 50 dB
Signal to noise	> 90 dB : 20 Hz to 16 kHz
Bandwidth	20 Hz to 16 kHz
TECHNICAL FEATURES	
Power supply	12 V DC, 0,5-2,0 A
Working current	Static 25 mA, speak 70-100 mA
Speaker power	Host 8 Ω 3W, external 8 Ω 2 W
Headphone plug	Standard audio jack
PRODUCT SPECIFICATIONS	
Agent side intercom	160 x 90 x 42 mm
Customer side speaker	74,5 x 74,5 x 22 mm
Packaging	Cardboard



STI-01B

- STI-01 kit with :
- Intercom STI-01
 - Magnetic loop DCL20-65



STI-01H

- STI-01 kit with :
- Intercom STI-01
 - Headphone HD-1022



STI-01HB

- STI-01 kit with :
- Intercom STI-01
 - Magnetic loop DCL20-65
 - Headphone HD-1022

WINDOW INTERCOMS – PHYSICAL PAD



OP-6510

Counter intercom consisting of a desk microphone with loudspeaker on the agent's side and a loudspeaker/microphone on the customer's side. The microphone on the customer side is fixed to the window or to a smooth wall.

AUDIO	
Voice reception	No delays
Audio coding	PCM/CAA
Signal to noise	> 90 dB
Response frequency	20 to 16000 Hz
Sampling rate	8 to 32 kHz
Volume	Adjustable 1 to 15
TECHNICAL FEATURES	
Power supply	12 V DC, 1,5 A
Energy consumption	< 5 W
Interface	1x RJ45 Ethernet port, 1x power input, 1x recording port and 1x internal external connector
Listening mode	3 : standard, quiet and noisy
PRODUCT SPECIFICATIONS	
Agent side intercom	160 x 95 x 46,5 mm
Customer side speaker	102 x 83 x 24 mm
Packaging	Cardboard



OP-6510B

- OP-6510 kit with :
- Intercom OP-6510
 - Magnetic loop DCL20-65

UHF WIRELESS SYSTEMS

UHF systems are a great alternative to assistive listening solution, when your project constraints prevent hearing loops to be installed. Opus Technologies UHF OP-10 range is intended to be used either in wide environments or for tour guidance. It transmits the sound directly into listening options like headphones or inductive neck loops.



UHF WIRELESS SYSTEMS – TRANSMITTERS



OP-10STX

The OP-10STX rackable transmitter is intended to be used to transmit audio modulation from a sound system, PA system or microphone to one or more OP-10R or OP-10SRX receivers.

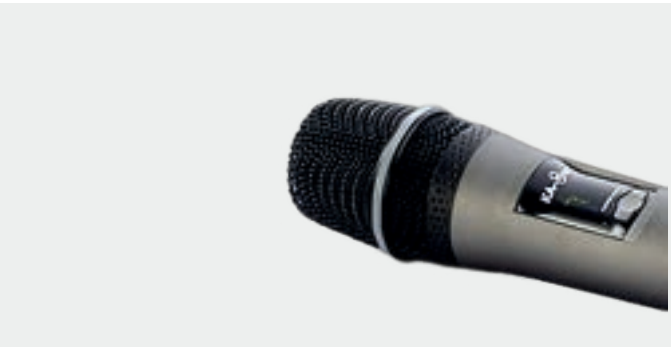
TECHNICAL SPECIFICATIONS	
Radio frequency range	863/865 MHz divided into 16 cha.
Transmission	< 10 mW
Audio frequency range	40 to 15000 Hz
CHANNELS	
CH1 input	20000 Ω
CH2 impedance	100 mV
CH2 connection	6,3 mm Jack plug
CH3 input	47000 Ω
CH3 impedance	250 mV
CH3 connection	6,3 mm Jack plug
OUTPUT	
Phantom H1	~ 46 V
Headphone output	3,5 mm Jack plug
Headphone impedance	> 16 Ω
Operation temperature	0 to 40 °C
Power	230 V, 50 Hz
PRODUCT SPECIFICATIONS	
Dimensions	212 x 44 x 239 mm
Net weight	1,30 kg



OP-10T

The OP-10T pocket-size transmitter, supplied with an M-801S microphone, is used to transmit a speaker's voice to one or more OP-10R receivers.

TECHNICAL SPECIFICATIONS	
Radio frequency range	863/865 MHz divided into 16 cha.
Transmission	10 mW
Audio frequency range	18 to 14 Hz
Internal microphone	Electret microphone (cardioid)
Battery time	< 14 hours
PRODUCT SPECIFICATIONS	
Dimensions	54 x 17 x 99 mm
Net weight	80 g



OP-8TH

Combined with an OP-10 T transmitter, the OP-8TH is an electret microphone allowing to transmit a speaker's voice to one or several OP-10R receivers.

TECHNICAL SPECIFICATIONS	
Radio frequency range	863/865 MHz divided into 16 cha.
Transmission	10 mW
Stability	~ 10 kHz
Channel display	LED display
Controls	ON/OFF, Channel selection, Mute
Frequency responses	40 to 16'500 Hz
Power	2 LR6
Autonomy	< 20 hours

UHF WIRELESS SYSTEMS – RECEIVERS



OP-10SRX

The OP-10SRX fixed diversity receiver allows you to pick up an audio source transmitted by an Opus OP-10 transmitter and transmit it in a dedicated reception zone.

TECHNICAL SPECIFICATIONS	
Radio frequency range	863/865 MHz
Signal to noise ratio	> 105 dB
THD	< 0,6 %, 1'000 Hz
Display	LED
Controls	ON/OFF, Channel selec., Volume
Output level	- 12 dB
Output impedance	600 Ω
Power	10/18 V DC
PRODUCT SPECIFICATIONS	
Dimensions	212 x 40 x 125 mm



OP-10R

The OP-10R is a pocket-size receiver with an excellent value for money ratio. It can receive up to 16 broadband channels. Its Lithium battery provides 14 hours of battery life.

TECHNICAL SPECIFICATIONS	
Audio input	1x microphone + 1x line input
Connector type	1x 3,5 mm Micro Jack + Phoenix
Phantom supply	4,5 V, 1 mA
Peak current	4 A
RMS current	2 A at 1 kHz
Protection	Thermal, sort circuit and start
PRODUCT SPECIFICATIONS	
Dimensions	100 x 50 x 20 mm
Net weight	83 g
Packaging	Cardboard

UHF WIRELESS SYSTEMS – ACCESSORIES



OP-10TG

Single earpiece for receiver OP-10R



CE-1

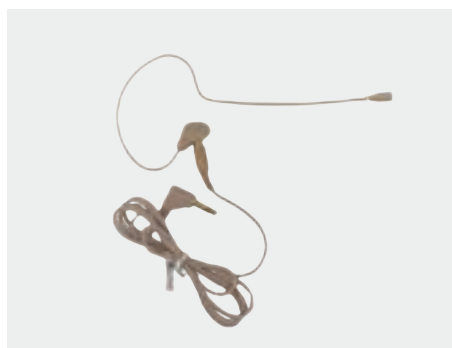
Universal stereo headphones, reliable and optimised for multimedia use



OP-778

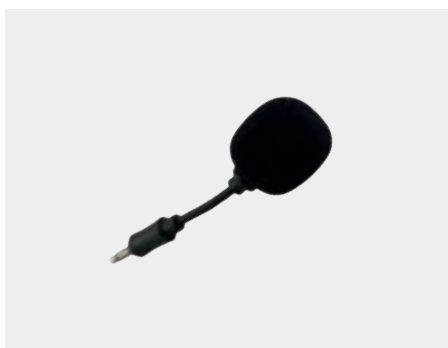
Professional headphones with a 3,5 mm jack plug. More resistant headphones with better listening quality

UHF WIRELESS SYSTEMS – ACCESSORIES



M-801S

Microphone electret headband with jack 3,5 mm jack for OP-10T



OP-101P

Plug-in microphone with 3,5 mm jack plug



W-68T

Lightweight omnidirectional clip-on tie microphone



ANT-49P

Passive omnidirectional antenna with BNC female connection



OP-49P

Passive directional antenna with BNC connection



OP-900i

Antenna booster with 10 dB gain booster and 1,8 dB antenna gain



C-900

Antenna coupler with 4 inputs and 1 output. Improves RF performance by reducing intermodulation distortion



USP-124

Signal splitter with 4 LED indicators and BNC connector



TR-iL

Magnetic neck collar to receive the magnetic loop with a 3,5 mm jack plug

UHF WIRELESS SYSTEMS – CHARGE & STORAGE



OP-SBAG

Soft waterproof bag for ST-DUO2SB kit



OP-CAS

18-inch universal storage case with pre-cut foam



OP-CAS1

10.5-inch universal storage case with pre-cut foam



OP-CAS4

20-inch universal storage case with pre-cut foam



OP-CAS12

18-inch universal storage case with pre-cut foam for 6x OP-10CH2 and 12x OP-10R



OP-10CH2

Charging terminal for 2 UHF range devices: OP-10R and/or OP-10T



OP-10CH18

Charging terminal for 18 UHF range devices: OP-10R and/or OP-10T



OP-10CH36

Charging station for 36 UHF devices: OP-10R and/or OP-10T



ST-DUO2SB

UHF kit complete with : OP-SBAG, OP-10T, OP-10R, OP-10CH2, W-68T, OP-778, TR-iL and a TV cord set

UHF WIRELESS SYSTEMS – SYSTEM KITS



ST-DUO2

UHF kit complete with : OP-CAS1, OP-10T, OP-10R, OP-10CH2, W-68T, OP-778, TR-iL and a TV cord set

For the version with soft bag, see page 43: ST-DUO2SB



OP-K4F

Fixed transmitter kit : 4x OP-10R, 1x OP-10STX, 2x OP-10CH2, 4x OP-778 and 4x TR-iL



OP-K6F

Fixed transmitter kit : 6x OP-10R, 1x OP-10STX, 3x OP-10CH2, 6x OP-778 and 6x TR-iL



OP-K8F

Fixed transmitter kit : 8x OP-10R, 1x OP-10STX, 4x OP-10CH2, 8x OP-778 and 8x TR-iL



OP-K10F

Fixed transmitter kit : 10x OP-10R, 1x OP-10STX, 5x OP-10CH2, 10x OP-778 and 10x TR-iL



OP-K18F

Fixed transmitter kit : 18x OP-10R, 1x OP-10STX, 1x OP-10CH18, 18x OP-778 and 18x TR-iL



OP-K3M

Mobile transmitter kit : transport case, 3x OP-10R, 1x OP-10T, 2x OP-10CH2, 1x W-68T, 3x OP-778 and 3x TR-iL



OP-K5M

Mobile transmitter kit : transport case, 5x OP-10R, 1x OP-10T, 3x OP-10CH2, 1x W-68T, 5x OP-778 and 5x TR-iL



OP-K17M

Mobile transmitter kit : transport case, 17x OP-10R, 1x OP-10T, 1x OP-10CH18, 1x W-68T, 17x OP-778 and 17x TR-iL



ZA du Bédar, 33650
Saint-Médard-d'Eyrans
(France)



+33 (0) 9 81 24 00 06



contact@opus-technologies.fr



www.opus-technologies.fr

OPUS
Technologies

Know more about Opus Technologies ?



With 10 years of experience in hearing accessibility, Opus Technologies provides ultra compact loop amplifiers.



Manufactured and developed by engineers in France.



Our inclusive technologies are at the service of hard of hearing.