

Window intercom



OP-6505H



OP-6510



Installation and user manual

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1 Presentation

1.1 Introduction

This guide has objective to introduce you to the installation and utilisation of window intercom systems OP-505H and OP-6510 provided by Opus Technologies. These system are designed to be relevant for many purpose :

- Ticket and service counters.
- Retail counters.
- Money exchange.
- Information kiosks.
- Reception desks.
- Interview rooms.

OP-6505H and OP-6510 window intercom systems provide following features :

- Possibility to connect a magnetic loop system for hearing aided people.
- DSP multi-channel language auto-control technology that permits to realize real digital full-duplex intercom avoiding squeaking and disturbance.
- Full touchable transparent key design (only OP-6505H) to keep intercom free from disturbing key-clicks and easy to keep clean by just swiping it.
- Sound source recognizing, environment noise control, automatic or manual volume ajustement and original sound restoration.
- Three scene mode (quiet, standard, noisy), one-key ajustement support.
- Professional enclosure structure design adopting alluminum enclosure to prevent machine resonance and ensure long term product durability.
- Audio output to connect third-party recording storage such as DVR systems.
- LED showing if device is on communication.
- Mic headset fonction to allow agents to isolate themselves of background noise (only available on OP-6505H).
- Rainproof and IP-65 compliant client microphone/speaker.



OP-6505H



OP-6510

1.2 Technical characteristics

	OP-6505	OP-6510
GENERAL CHARACTERISTICS		
Agent Microphone Dimensions & Weight	160 x 95 x 46,5 mm; 0,62kg	160 x 95 x 46,5 mm; 0,6 kg
Speaker-Microphone Dimensions & Weight	102 x 83 x 24; 0,2kg	102 x 83 x 24 mm; 0,2 kg
Power Supply & Voltage	DC 12V/1,5A; ≤5W	DC 12V; ≤5W
Working Temperature	-10°C to ~ +50°C	-20°C to ~ +70°C
Humidity Resistance	<90% (no condensation)	<90% (no condensation)
AUDIO CHARACTERISTICS		
Audio coding	AAC / MP3	PCM / AAC / MP3 / MP2
Audio latency	None	None
Speaker unit	4Ω 3W Speaker	4Ω 3W Speaker
Signal to noise ratio	≥90dB	≥90dB
Bandwith	20Hz~16kHz	20Hz~16kHz
Audio sampling	16kHz-32kHz	8kHz-32kHz
OTHER PRODUCTS REFERENCES		
OP-6505B	Digital counter intercom with touch pad and magnetic loop	
OP-6510B	Digital counter intercom round with induction loop version	
DCL20-65	DCL20 loop amplifier with power supply and loop	

1.3 Package content

Following elements are included :

- central unit agent + microphone (X1 set)
- Gooseneck microphone (X1)
- Power adapter 12V (X1)
- Wiring clips 3 x 100 mm (X3)
- Cable clamp HC-100 (X3)
- Wiring connector 3.81-2P (X1)
- Quick installation manual (X1)
- Headset (only with the OP-6505HK)

1.4 OP-6505HB and OP-6510B

You bought a window intercom system with a DLC20-65 kit. It allows you to install a magnetic loop system.

To have more informations about the installation of magnetic loop in the reception desk, see "Loop installation", page 7.

1.5 Description

1.5.1 Microphone/speaker client side



OP-6505H microphone/speaker client

1) Speaker / Microphone : Contents the speaker to amplify the local audio intercom and the microphone to receive agent speaking.

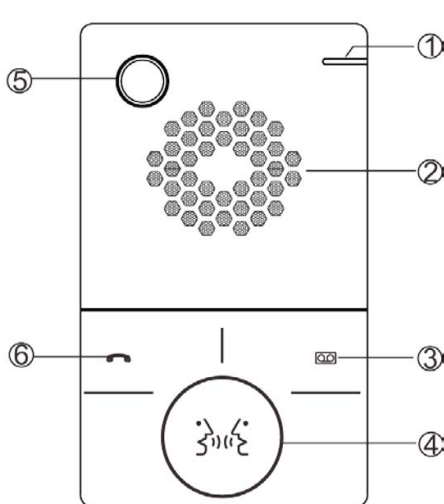
2) 6-pin connector to central unit agent.



OP-6510 microphone/speaker clientz

1.5.2 Central unit agent scheme

Front view of OP-6505H :



1) Red light : Device working indication

2) Loudspeaker : Audio from client microphone amplifier.

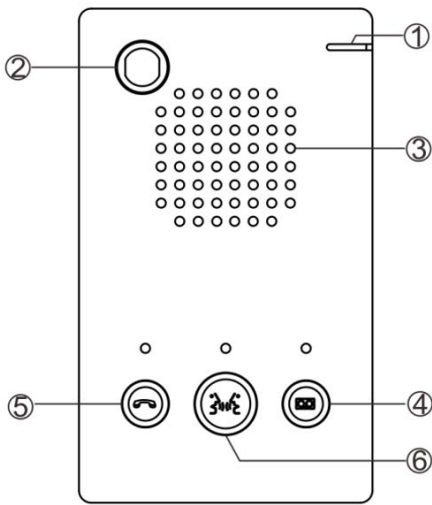
3) Recording key : Allows to make a recording of the current conversation.

4) Central key : Allows to begin a call with the client.

5) 3-pin microphone pole socket : Plug for microphone pole.

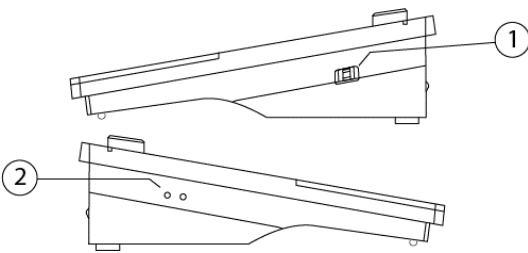
6) Phone key : Permits to diffuse automatic "Hello"/"Goodbye" messages by pressing it.

Front view of OP-65010 :



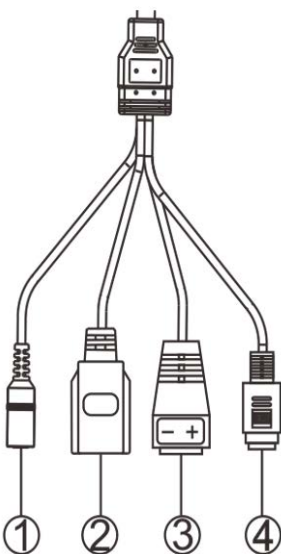
- 1) **Red light** : Device working indication
- 2) **3-pin microphone pole socket** : Plug for microphone pole.
- 3) **Loudspeaker** : Audio from client microphone amplifier.
- 4) **Recording key** : Allows to make a recording of the current conversation.
- 5) **Central key** : Allows to begin a call with the client.
- 6) **Phone key** : Permits to diffuse automatic "Hello"/"Goodbye" messages by pressing it.

Central unit agent side view :



- 1) **Scene mode ajustement switch** :
 - **Mode 1** : Noisy environnement.
 - **Mode 2** : Normal environnement.
 - **Mode 3** : Quiet environnement.
- 2) **Headset jack 3.5 mm socket** : Only available on OP-6505H.

1.5.3 Connection wiring



- 1) **Power supply** : Connect to a 12VA/2A plug.
- 2) **IP Network** : Allows to connect a POE switch for intercom interconnections.
- 3) **Analog audio output interface** : Connect to a DVR, a loop amplifier or an IP camera.
- 4) **External audio plug** : Connect to client microphone/speaker.

1.6 Safety

1.6.1 Safety indications

The icons used in combination with Caution and Warning indicate the type of risk. See the following examples:



- This symbol is used to alert the user to important operating or maintenance instruction.



- This lightening bolt triangle is used to alert the user to the risk of electric shock.



- This symbol alert the user to important risk of electrostatic discharge.



- This symbol alert the user to important risk of burn if customer is touching the device while operating.

1.6.2 Safety instructions



Safety :

- Do not scratch, cut or twist the power cord.
- If the device is under maintenance or is unused for 10 days or more, shut down the device and pull out the plug.
- Do not put any heavy, or metallic object on the device.
- Do not open or modify the device internal. Please contact your supplier.
- In case product fall into the floor, do no use the device until it has been checked by an authorized dealer.



Burn risks :

- Do not put metal or inflammable objects in the device internal or around the device.
- In case of smoke or suspicious odour, switch off and unplug the device then contact your supplier.



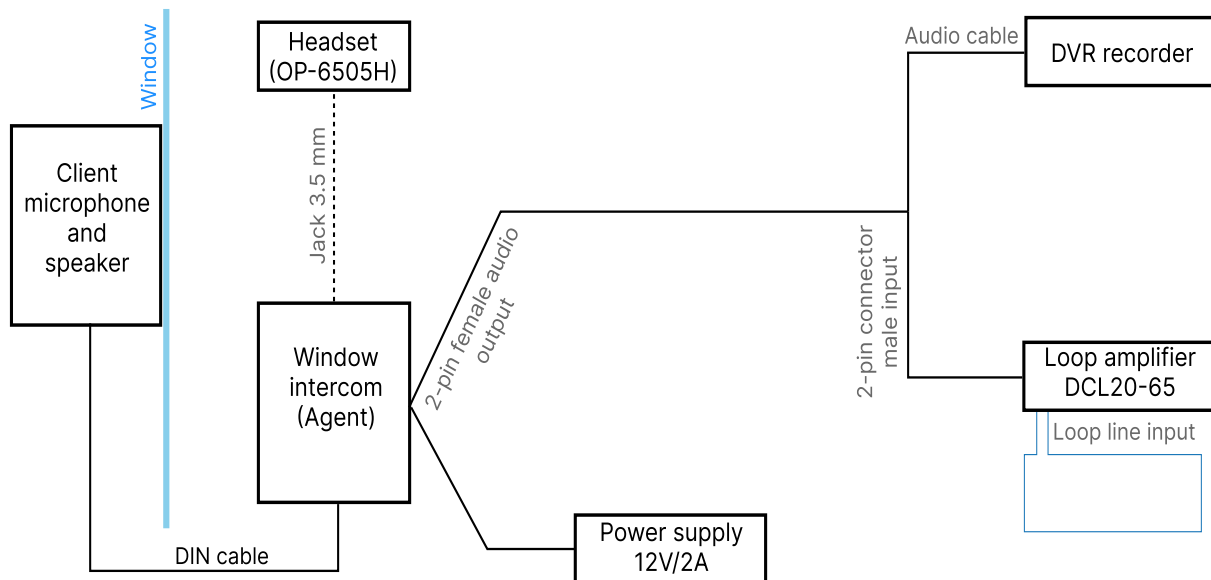
Electroshock risks :

- Do not place the device under water or in any liquid stained environnement to prevent the risk of electroshock.
- Do not place any object containing liquid around the device.
- In case of any anomaly appearing, please shut off the power supply immediately and contact your supplier.
- Do not use another power voltage than the one indicated to connect the device.
- Do not touch the device and the plug in case of lightning.
- Keep the power supply away from the working device.

Please respect these indications for your safety and to maintain the proper functioning of the device. Every maintenance operation must be operated by professional personnel.

2 Installation

2.1 Principle scheme



Connect your system according to the scheme above.

Notes :

- DVR connection possible with 2 male connector audio output.
- DVR system must have a button.
- A RJ45 Ethernet socket is only available on OP-6505H.

2.2 Loop installation

2.2.1 Presentation of DCL20-65 kit

The DCL20-65 is a part of Opus Technologie serie of induction loop amplifier. It covers rooms from 50m² to 2000m².

Kit contents :

- DCL20-65 amplifier with integrated connectors (X1)
- Power supply (X1)
- A 1,80m loop cable and adaptor (X1)
- Link cable (X1)
- Audio cable (X1)
- Adhesive clips
- Stickers "space adapted for hearing impaired" (X3)



2.2.2 Loop connection

A magnetic induction loop is composed of 3 elements :

- A loop cable
- A loop adapter
- A connecting cable

The loop is delivered "ready to use" but it is possible to disassemble it to adapt it to the reception desk shape. Follow the steps to operate it :

- Unscrew the support of the electronic card as shown on figure 1.
- Connect the beginning and the end of the loop cable to the circuit board (red connector).
- Plug the 50-70 cm connecting cable to the "Amplifier" connector of the adaptator and to the "Loop" terminal block to the amplifier as shown on figure 2.

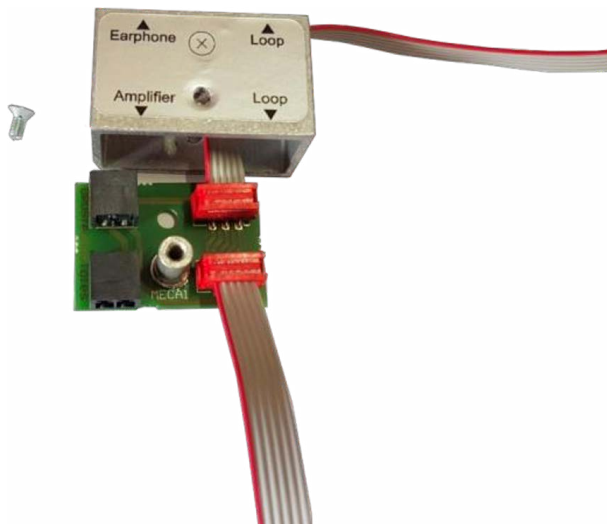


Figure 2

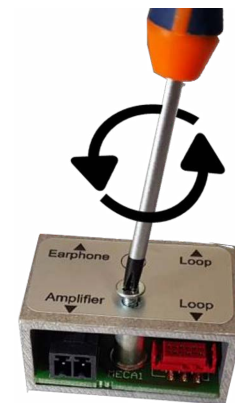


Figure 1

2.2.3 Loop installation in the reception desk

There are different ways to install the magnetic loop with the central unit agent. We recommend the first installation described below.

1) Loop installation inside the reception desk :

- Place the loop on vertical and horizontal portion as shown in the figure 3, astride the corner of the reception desk.

This solution is recommended because it ensure better coverage in front of the reception desk.

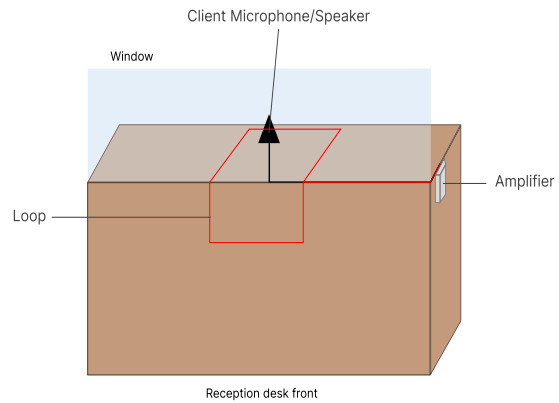


Figure 3

2) Double loop installation inside the reception desk :

- Place one loop horizontally on the top of the reception desk and another one vertically on the countertop, as shown in the figure 4 opposite. Both has to be as close as possible from the client.
- Fix the loop using the binding clips supplied. For better durability, it is possible to install the loop in a plastic chute.
- Connect the link cable to the "Amplifier" terminal block of the amplifier.
- Connect the loop to the "Loop" terminal block of the amplifier.
- Screw the connector at the drawn cross level.

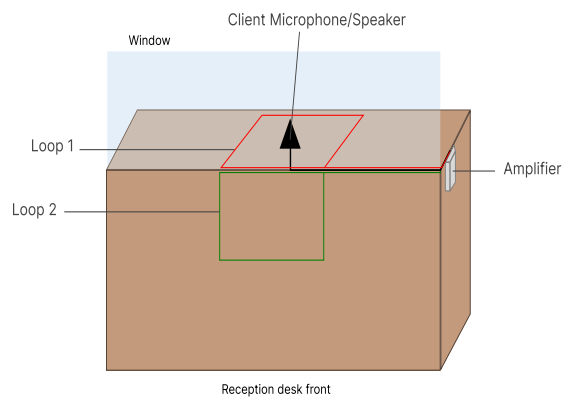


Figure 4



Do not position the loop under a metal structure. The magnetic field would be absorbed by the metal mass and would leading to improper audio coverage. See the next solution to install a loop on a metallic reception desk.

3) Loop installation in the floor (for metallic reception desk) :

- According to your environment situation, place the loop in the slab (over the wire mesh) or under a coating (parquet, carpet, etc.) using a copper tape or glued under a carpet as shown on figure 5.

The wire supplied in the DCL20-65 kit produces a magnetic field radiating on a perimeter of 1.2 m which allows a people to receive the signal comfortably.

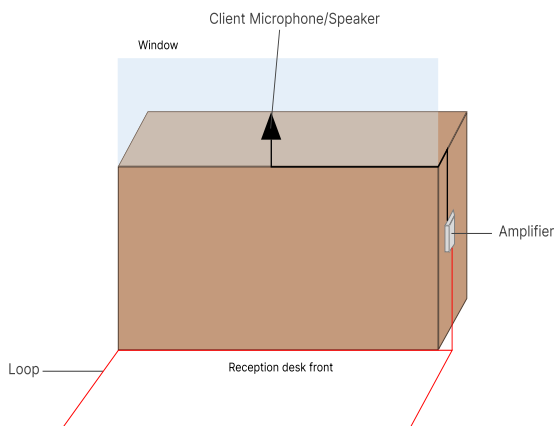


Figure 5

To avoid disturbance due to metal, the "Hearing impaired" pictogramme can be fixed on the reception desk turned to the client side, as shown on figure 6.

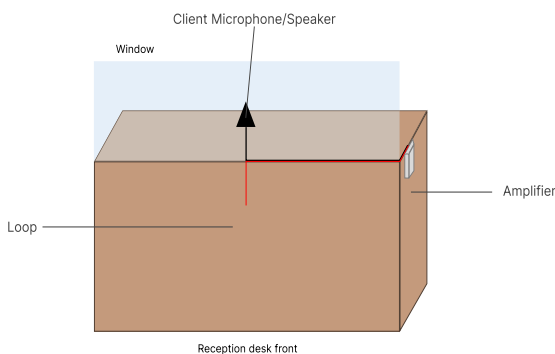
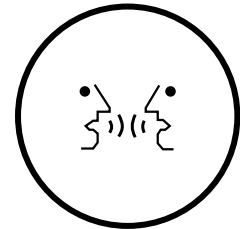


Figure 6

3 Use

3.1 Local intercom duplex conversation

- Push the main button of the central unit agent to begin a duplex conversation. The red LED around the central unit agent microphone light on to confirm the system is working properly.
- When conversation is done, push the main button of the central unit agent again to end the duplex and deactivate the system.



3.2 Recording



The central unit agent can be connected to a DVR by an output analog audio (see “Principle scheme”, page 7). The recording is automatically recorded on the hard disk of the DVR. See your DVR product guide to get more informations.central unit agent

3.3 Volume level ajustement

3.3.1 Adjust volum level in duplex

On the left side of the central unit agent, select a mode with the swith depending your current environnement :

- **Mode 1** : Noisy environnement.
- **Mode 2** : Normal environnement.
- **Mode 3** : Quiet environnement.

3.3.2 Adjust volume level separately

Press simultaneously phone key and voice broadcast button during 4 seconds to activate the separate level volume ajustement function :

- Press shortly the recording key to increase the volume of the client speaker.
- Press shortly the phone key to increase the volume of the central unit agent speaker.
- Press longer (2sec) the recording key to decrease the volume of the client speaker.
- Press longer (2 sec) the phone key to decrease the volume of the central unit agent speaker.
- Press and hold the recording key to continuously decrease the volume of the client speaker.
- Press and hold the phone key to continuously decrease the volume of the central unit agent speaker.

Press again simultaneously phone key and voice broadcast button during 4 seconds to deactivate the separate level volume ajustement function.

The volume setting ranges from 1 (low) to 15 (high).

4 Warranty certificate

Our window intercom devices complies with following CE directives :

- EN-5503:2015
- EN-55035:2017
- EN-61000-3-2:2014
- EN-61000-3-3
- ROHS directive



RoHS



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