



Simultaneous, automatic and duplex intercom system (hands free), with built-in antilarson device.

It is specially useful to be used in spoken communication where glazing separates people communication from one side to another (in banks, prisons, train station, hospitals, telephone booths, etc...)

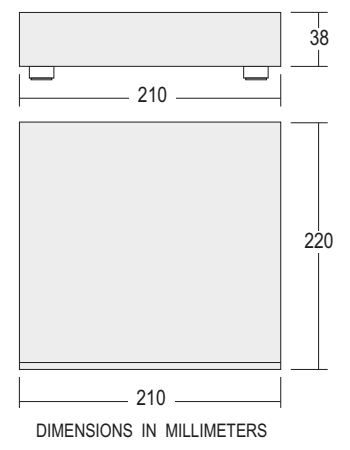
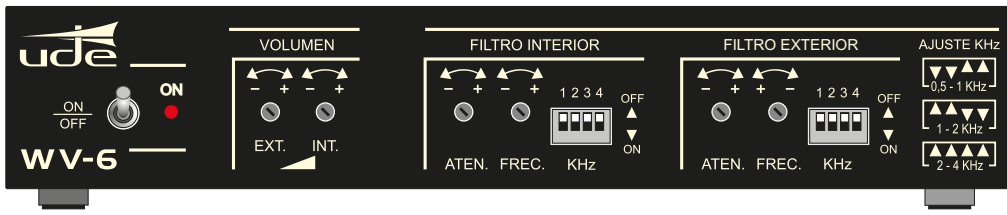


### IV-5/M System

**Composition:**

- 1 Inside microphone **PV-5**
- 1 Outside microphone **IV-5**
- 1 Main station **WV-6**
- 1 Supply **WV-12**





**DESCRIPTION:**

The main station WV-6 is designed for working with the different intercom system for windows UDE: **IV-6/M**, **IV-5/M**.

Of small size, it is possible its assembly in wall, desktop and rack 19" through the WM-200 accessory. It feeds by the WV-12 supply (12 Vdc./230Vac.).

It has one special feedback suppressor device as well as 2 parametric filters in order to perform at full capacity.

It has phones output (inside box) for a better privacy, which is used with a microphone PV-5 inside. In this case, the internal loudspeaker is not used.

Besides it incorporates a hearing aid induction loop (ref. WV-10) to help people with hearing disabilities person.

Everything mentioned above makes the main-station **WV-6** a very flexible product to comply with all windows intercom system requirements.

**CONFIGURATION:**

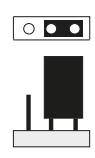
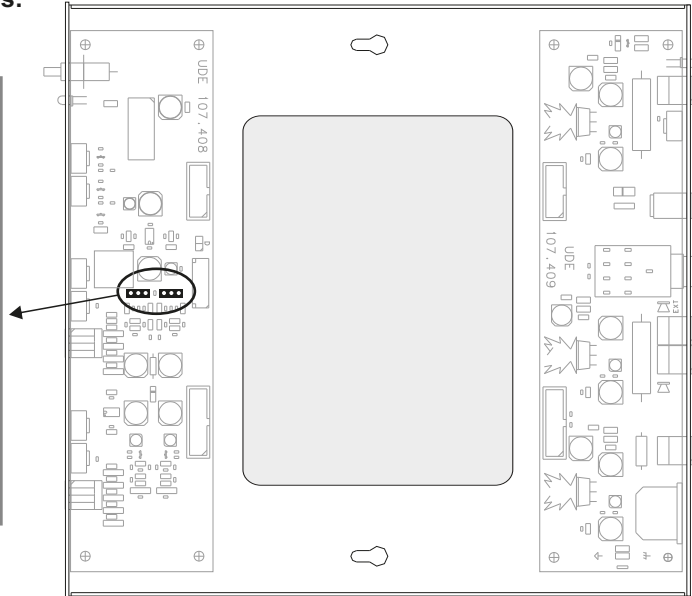
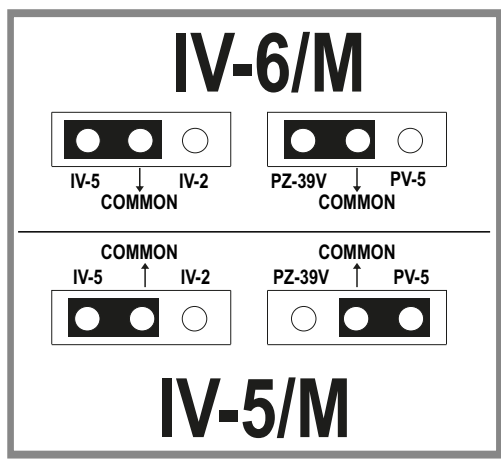
The system is by default configured for **IV-5/M**.

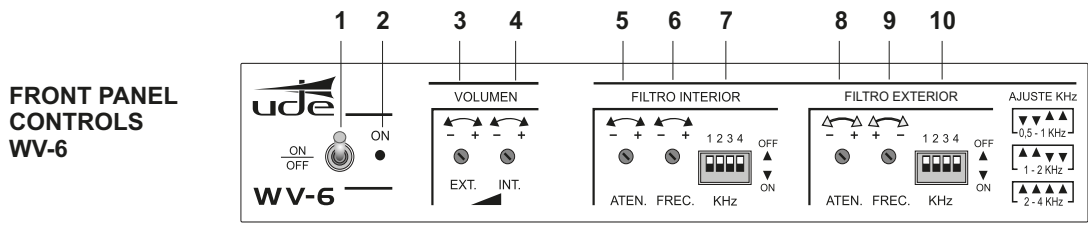
In case it is necessary, remove the cover. Place the internal bridges according to the type of microphones that will be used: **IV-6/M**, or else **IV-5/M**, as indicated in the figure. Next, replace the cover.

Assembly the main station in its location, having in mind that the different elements of adjustment and connectors must stay accessible.

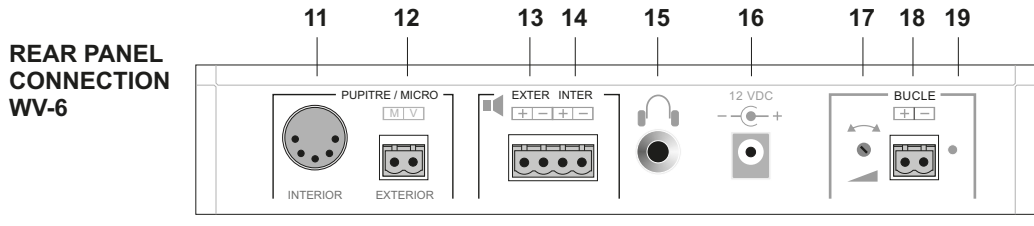
**Configuration Main station WV-6 for systems:**

- IV-6/M
- IV-5M





- ①- SWITCH ON/OFF
- ②- POWER LED.
- ③- OUTSIDE volume control
- ④- INSIDE volume control
- ⑤- Adjustment of internal filter Attenuation.
- ⑥- Adjustment of internal filter Frequency.
- ⑦- Selector of internal filter Level Frequency
- ⑧- Adjustment of external filter Attenuation.
- ⑨- Adjustment of external filter Level Frequency.
- ⑩- Selector of external filter Level Frequency.



- ⑪- INTERNAL DIN - Microphones Connector
- ⑫- Plugged terminal block- EXTERNAL microphone
- ⑬- Plugged terminal block- EXTERNAL loudspeaker
- ⑭- Plugged terminal block- INTERNAL microphone
- ⑮- JACK-PHONES connector.
- ⑯- Power Supply 12 VDC
- ⑰- MAGNETIC Loop Adjustment.
- ⑱- MAGNETIC Loop plugged terminal block.
- ⑲- MODULATION Led MAGNETIC Loop.

**START-UP PROCEEDURE**

An assistant is required on the other side.  
 The noise level condition inside and outside the ticket office should be those of normal use.  
 Position all the adjustment potentiometers on the front and rear panel to the minimum (counter-clockwise)  
 Turn the WV-6 central unit on via the "ON/OFF" switch. The red ON light will light up.  
 Press the start button on the PV-5 microphone. The associated green LED should light up.  
 Press the external volume adjustment, speaking normally in front of the indoor microphone, until the appropriate level is reached outside. Then, proceed in the same way with the indoor volume speaking from the outside, the indoor level should be appropriate to the enviornment.  
 If at the set level the sound tends to be coupled, this is usually due to the model of speaker used as well as the acoustic characteristics of the room.  
 In this case it will be necessary to adjust the indoor and outdoor filters.

**FILTERS ADJUSTMENT PROCEDURE**

**Adjustement of the outdoor filter:**  
 1.- Slightly reduce the indoor volume.  
 2.- Increase the outdoor volume up to the critical point of coupling and activate the adjustment of the filter attenuation to the maximum and readjust the frequency. If it has no effect, change the frequency range until you achieve a noticeable improvement on the sound.

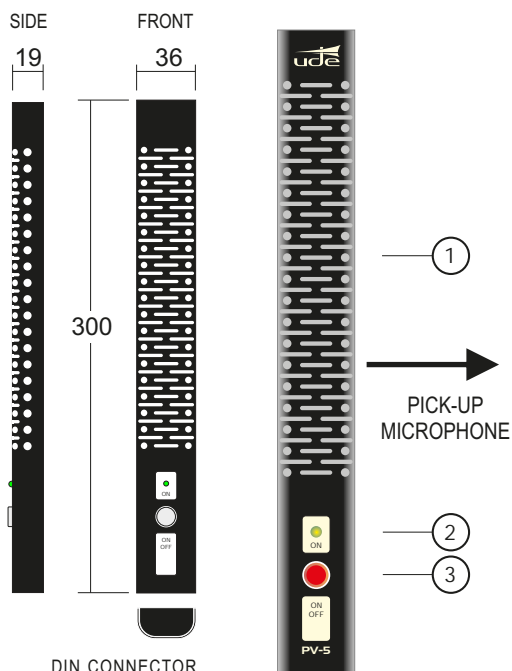
**Adjustment of the indoor filter:**  
 Increase the outdoor volume up to the critical point of coupling and activate the adjustment of the filter attenuation to the maximum and readjust the frequency. If it has no effect, change the frequency range until you achieve a noticeable improvement on the sound.  
 A fine adjustment is possible by reducing attenuation.  
 Once both filters have been adjusted, readjust the inner an outer volumes to the appropriate levels.  
 The system is the adjusted.

**MAGNETIC LOOP ADJUSTMENT (WV-10 accessory)**

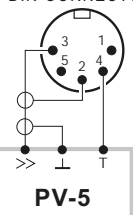
Adjust the volume on the rear panel until the loop modulation indicator lights up when speaking in front of the indoor microphone.

## IV-5/M system composition

### INDOOR MICROPHONE PV-5



DIN CONNECTOR

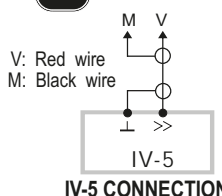
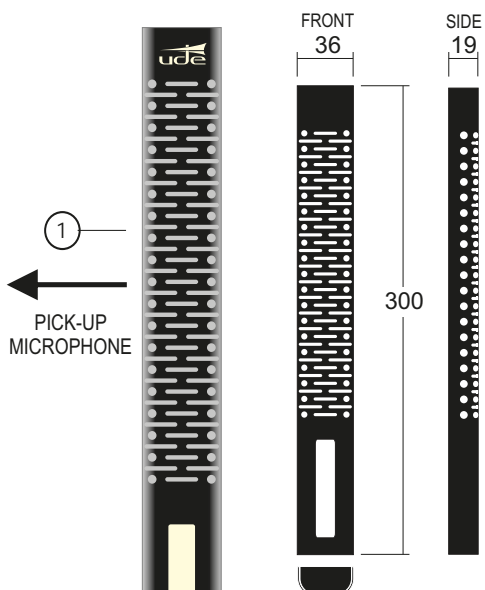


PV-5 CONNECTION

- ①- Internal microphone.
- ②- ON light (green)
- ③- Push button "ON / OFF".

WEIGHT= 300 grams.  
DIMENSIONS IN MILLIMETRES

### OUTDOOR MICROPHONE IV-5

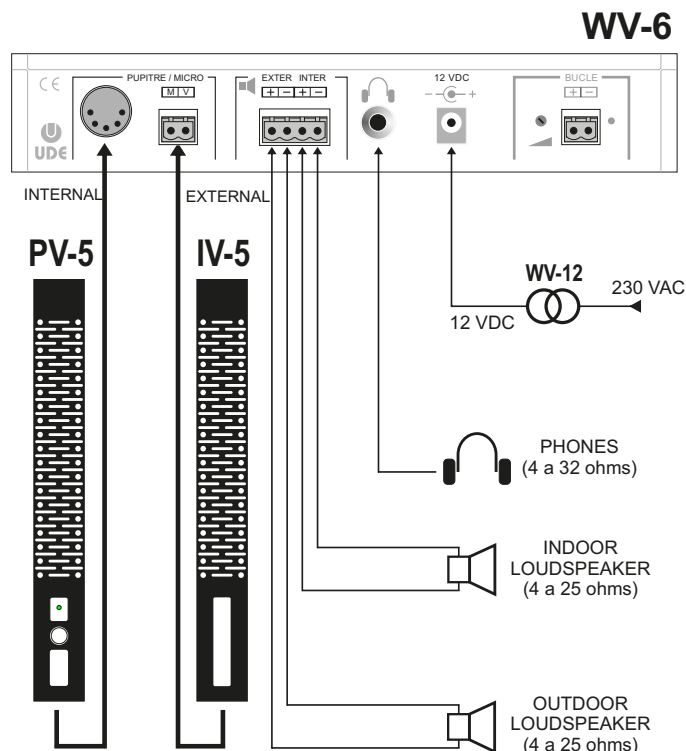


- ①- External microphone

WEIGHT= 300 grams.  
DIMENSIONS IN MILLIMETRES

IV-5 CONNECTION

## IV-5/M connections



\* Supplied with connection cable for PV-5 indoor microphone and IV-5 outdoor microphone  
Length: 3 meters

### PV-5 and outdoor IV-5 microphone installation

1. Install internal and external speakers in their position according with recommendations. They have to be directed towards the listeners.

#### 2. IV-5 and PV-5 microphones installation

The internal and external microphones will be stuck on the glass thanks to special adhesives delivered with the microphones.  
For a correct installation of these microphones, proceed as follow:

A. Clean the surface of the window of which will be installed the microphone (internal and external) with alcohol or equivalent product.

B. By using a marker, define the exact location of external microphone IV-5.

C. Remove the adhesive protection from the rear part of the microphone cabinet IV-5 and stick it on its location on the window.

D. Proceed with the same procedure for the internal microphone PV-5. Usually, the internal microphone is installed in the same position, symmetrically on the opposite side of the window.

#### E. Specifications of adhesive

- Temperature: between -30 C and +90 C°
- Adhesive strength: Traction: 59 N / cm<sup>2</sup>  
Cutting: 48 N / cm<sup>2</sup>

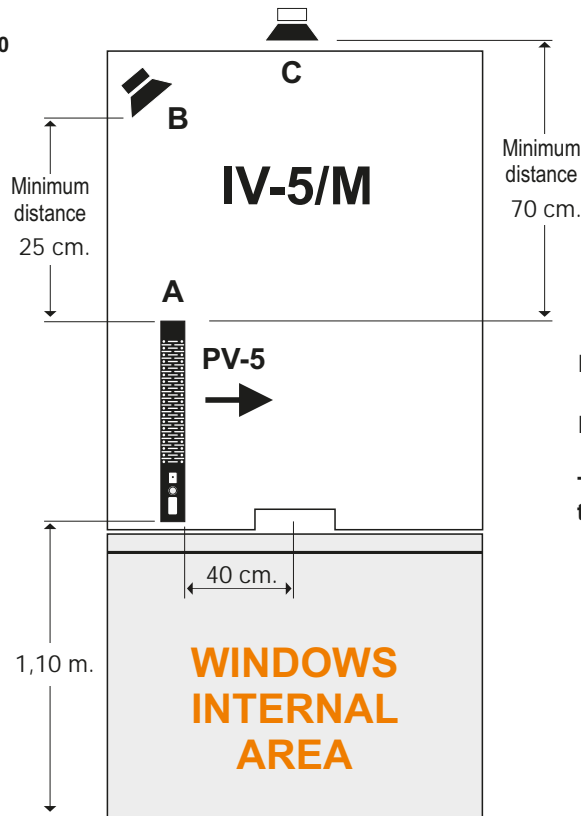
- The action of adhesive is immediate, once the microphones are installed, the system is ready for operation. However, the adhesive get its maximum resistance after a period of 48 hours.
- Installation temperature: 18 C° or more.

3. Connect the cables according to instructions of wiring diagram.

## IV-5/M recommended layout

### WINDOWS INTERNAL

- B – ACOUSTIC BOX AP-700
- C – CEILING SPEAKER



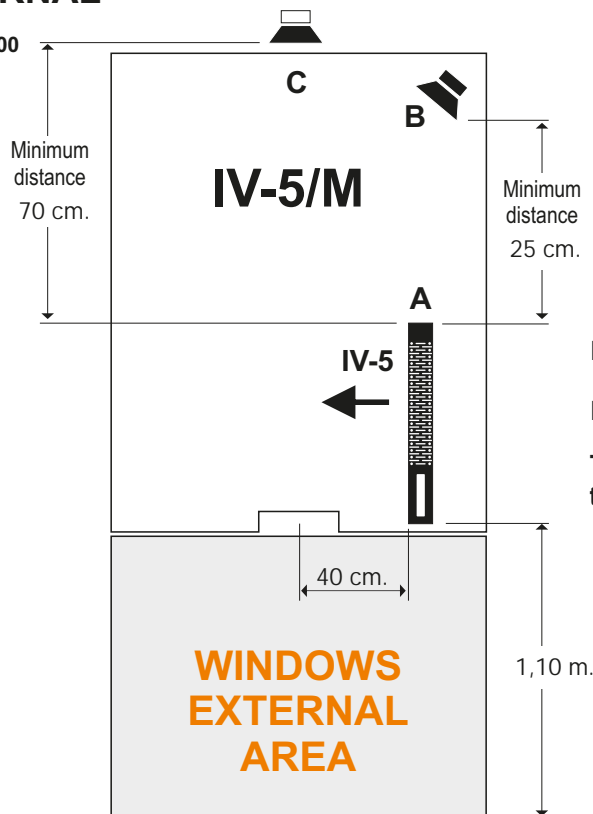
Microphone in position A.

Loudspeakers in position B or C.

**The arrow indicates the microphone's capture direction.**

### WINDOWS EXTERNAL

- B – ACOUSTIC BOX AP-700
- C – CEILING SPEAKER



Microphone in position A.

Loudspeakers in position B or C.

**The arrow indicates the microphone's capture direction.**