



# HANDS FREE INTERCOM FOR CABINET OF RADIOLOGY

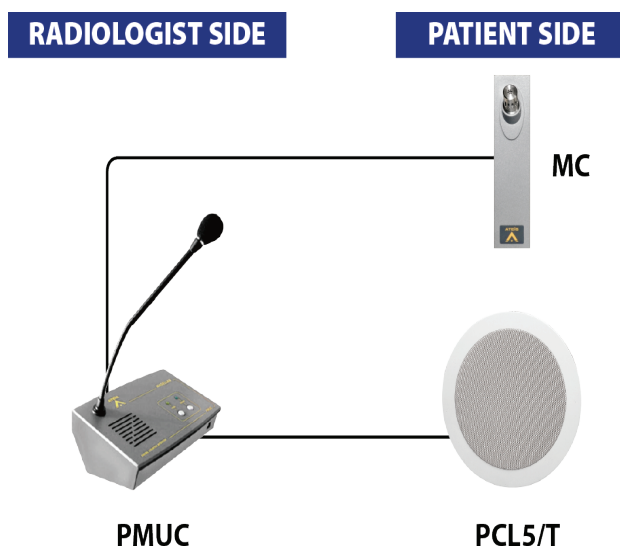
In most of the radiology rooms, a glass protection separates the radiologist from his patient. The installation of a Full-Duplex intercom system allows you to keep a verbal contact between the radiologist and the patient.

## ADVANTAGES

- Cost effective solution of compact intercom system.
- Ease of installation.
- Full-Duplex, Automatic Gain Control.
- Automatic stand-by-mode.
- Excellent and clear audio quality for communication.



## APPLICATION EXAMPLE



## SOLUTION

The **MAGELLAN COMPACT** is a digital intercom system ensuring a Full-Duplex link between the radiology room and the radiologist, an excellent quality level controlled by Digital Signal Processing (DSP).

Its DSP includes various complex algorithms such as level control, echo cancellation, noise reduction, limiter in case where the radiologist or the patient would speak too loudly, voice activation detection.

The MAGELLAN COMPACT intercom consists of the following components:

Radiologist side:

- 1 x **PMUC**: Desktop compact including a flexible microphone and a built-in loudspeaker.

Patient side :

- 1 x **MC**: Electret unidirectional microphone for patient use.  
Material: steel bracket and the head of the microphone in stainless steel.  
This mic can be set on the device of radiology or suspended from the ceiling of the radio room.
- 1 x **PCL5/T**: Speaker in white ABS with a power of 5 Watts / 8 Ohms.  
Performance: 85 dB/1 W/1m.

The system is delivered with connecting cables as well as with the software which allows to control the system (sound levels, ...).

MAGELLAN is the perfect intercom solution for applications which need perfect voice transmission, even in difficult acoustic conditions.

## REQUIREMENTS

Ensure a Full-Duplex communication through the glass wall.

Avoid any echo or Larsen.

Reduce the noise without affecting the floor.

Voice activation detection.

## BASIC CONFIGURATION

### Radiologist side:

<b>1 PMUC</b>	Desktop compact including a flexible microphone and a built-in loudspeaker
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### Patient side :

<b>1 MC</b>	Client microphone
<b>1 PCL5/T</b>	Ceiling speaker ABS 5 Watts / 8 Ohms

### Connecting cables

## ADVICES

Provide for a distance of 50 cm between the microphone and loudspeaker patient side to avoid any echo of Larsen.

Remove the 100 V transformer of PCL5/T for operation in intercom mode with the PMUC.

