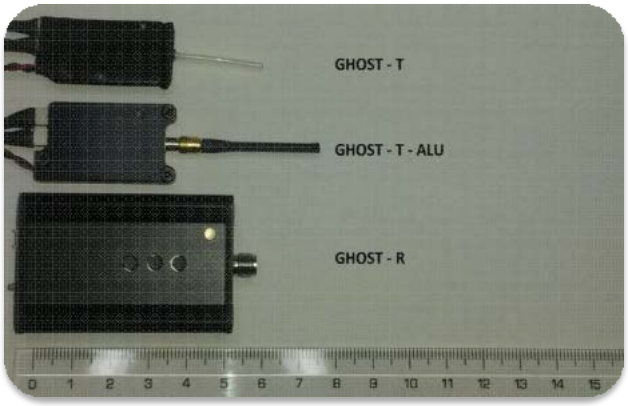
GHOST SYSTEM

-DIGITAL AUDIO TRANSMISSION SYSTEM-

The **GHOST SYSTEM** is a new tiny digital audio transmission system. The system is designed to transmit the voice in stereo mode with high quality and digital encoding. The high quality and the “hidden” transmission are the great revolution in the intelligence world.

The system is composed of the transmitter **GHOST-T** and the receiver **GHOST-R.**



FEATURES:

- Tiny size of the transmitter
- Crypto digital transmission
- Audio stereo 44.1Khz
- High sensitive of the microphones
- Hidden and programmable "ID-Key"
- Very low current consumption (40mA - Tx).

APPLICATIONS:

- Ideal for body-worn and hidden installations
- Standard indoor surveillance audio operations with the external micro power supply 110-220Vac.
- The built-in battery in the **GHOST-R** allows up to 3,5 hours of autonomy.

-

TECHNICAL FEATURES

GHOST -T

- FREQUENCY:
  - 2.400 Mhz
- MODULATION:
  - Frequency hopping, 100mS
- AUDIO QUALITY:
  - 44.1KHz – 16bit – Stereo 2 channels (L+R) - 8 gain levels
- RF OUTPUT POWER:
  - 100 mW
- POWER SUPPLY:
  - 3 Vdc – 15 Vdc , Ext. psu 110-220Vac
- CURRENT CONSUMPTION:
  - Typ. 40 mA Tx- 6mA stand-by
- DIMENSION:
  - 34 x 18 x 5 mm (shrink wrap)
  - 36 x 19 x 7 mm (aluminum enclosure)

GHOST -R

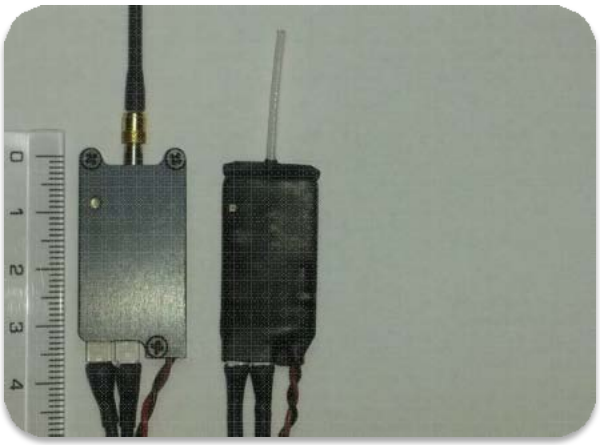
- AUDIO INTERFACE:
  - Jack Stereo 3,5mm - 15 levels audio headset
- ANTENNA CONNECTOR:
  - RP-SMA F - 50 Ω
- ANTENNA :
  - Patch - 7dBi, 90 x 65 x 15 mm
- POWER SUPPLY
  - Internal battery Li-po 3,7Vdc - 230mA
  - 5 Vdc - 15Vdc from da Mini USB plug
- CURRENT CONSUMPTION:
  - Typ. 40 mA
- DIMENSION (aluminum case black):
  - 53 x 33 x 16 mm

DESCRIPTION

- The **GHOST SYSTEM** was designed and developed in order to finally transmit by radio the audio picked up by two microphones with a very high quality.
- The wireless system is completely hidden and protected by a unique ID and cannot be intercepted.
- The loss of the **GHOST-T**, is not a problem, since the "ID" is replicable in our office
- The small size of **GHOST-T** make installation quickly and safe even in many objects.
- The radio coverage in the open field ranges from about 100 to 400 meters.
- The audio level on the **GHOST-T** can vary from a minimum of -3dB to a maximum to +18 dB, in steps of 3 dB.
- The battery charging Li-po inside the **GHOST-R** takes about 2 hours.

FUNCTIONING

When starting the system, the **GHOST-T** puts in search of **GHOST-R** and try to connect with it automatically for three times, then go on stand-by until you press the button to manually connect.
The operation can be performed on both the **GHOST-T** and **GHOST-R**.
This button is the first on the top, as you can see in the figure below.
On power-up, the **GHOST-T** retains its sound level that was present when it was turned off.
The lighting up of **GHOST-R** is carried out by moving the switch to the inside of the enclosure, and its output level will default to level audio “10”.
The battery recharge must be done by inserting the USB cable and the led will be blue.
Alternate flashing of the green led and red indicates that these systems are in research, while the double flash of the green led only indicates the correct radio link occurred.



The micro buttons on the **GHOST-T** from the top are:

- Manual hand shake
- Gain mik + (press twice)
- Gain mik - (press twice)

The buttons on the **GHOST-R** from the top are:

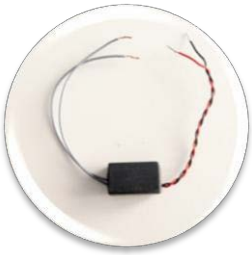
- Manual hand shake
- Headset volume +
- Headset volume -

ACCESSORIES

A range of accessories to complete the system and make it usable in most indoor surveillance operations. In case of specific requests you may opt for different solutions, as in the case of use of alternative directive antennas or power booster.

USB power supply GHOST-R

IN 110/220 Vac - OUT 5 Vdc 1000 mA



Micro power supply GHOST-T

IN 110/220 Vac - OUT 5 Vdc 500 / 900 mA ,
dimension 29 x 18 x 12 mm

Indoor panel antenna pannello

7 dbi Gain, RP-SMA Plug, dimension 90 x 65 x 15 mm

USB Cable adaptor

USB A - Mini USB A