

# INSTRUCTION MANUAL

## Digital Conference System

**H-7000D**

**H-3800c**

**H-3800d**



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## 1. IMPORTANT SAFETY INSTRUCTIONS



**CAUTION:** To reduce the risk of electric shock do not remove cover (or back panel). No user serviceable parts inside. Refer servicing to qualified personnel only.

**WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.



This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user of the presence of important operating and maintenance (servicing) instruction in the literature accompanying the appliance. Please carefully read the owner's manual.

### INSTRUCTIONS:

All safety and operating instructions should be read before the product is operated.

#### **Retain these instructions:**

All safety and operating instructions should be retained for future reference.

This owner's manual should be considered as a part of the product, it must accompany it at all times, and it needs to be delivered to the new user when this product is sold. In this way the new owner will be aware of all the installation, operating and safety instructions.

#### **Heed all warnings:**

All warnings on the product and in owner's manual should be adhered to.

Heed all warnings.

#### **Follow all instructions:**

All operating and user's instructions must be followed.

Sentences preceded by  symbol contain important safety instruction. Please read it carefully.

### DETAILED SAFETY INSTRUCTIONS.

#### **Water and moisture:**

This apparatus should not be used near water (i.e. bathtub, kitchen sink, swimming pools, etc.)

#### **Ventilation:**

This apparatus should be placed in a position that doesn't interfere with its correct ventilation. This unit, for example, should not be placed on a bed, sofa cover or similar surfaces that could cover ventilation openings, or placed in a built-in installation, such a bookcase or a cabinet that could block air flow through ventilation openings.

#### **Heat:**

This apparatus should be placed away from sources of heat, like radiators, heat registers, stoves or other products (including amplifiers) that produce heat.

#### **Power sources:**

- This apparatus should only be connected to a power source of type specified in this owner's manual or on the unit.
- If the supplied AC power cable plug is different from wall socket, please contact an electrician to change the AC power plug.
- 

#### **Grounding or Polarization:**

- All precautions must be observed in order to avoid defeating grounding or polarization.
- Unit metal parts are grounded through the AC power cord.
- If the AC power outlet doesn't have grounding, consult an electrician for outlet grounding.

#### **Power cable protection:**

The power cable should be routed in such a way that it will not be walked on or pinched by items placed upon or against it, paying particular attention to cables at their connections, receptacles and wall outlet.

**Cleaning:**

- You can clean the exterior of the unit with compressed air or a damp cloth.
- Don't clean the unit using solvents like trichloroethylene, thinners, alcohol, or other volatile or flammable fluids.

**Non use periods:**

The unit AC power cable should be unplugged from the outlet if it's unused for long periods.

**Objects or liquid entry into the unit:**

Be careful that no objects fall into the unit or that no liquid is spilled inside the unit through ventilation openings.

**Safe power line use:**

- Hold the plug and the wall outlet firmly while disconnecting the unit from AC power.
- When the unit will not be used for a long period of time, please unplug the power cord from AC power outlet.
- To avoid power cable damage, don't strain the AC power cable and don't bundle it.
- In order to avoid damage to the unit's power cable, be sure that the power cable is not walked on or pinched by heavy objects.

**Unit relocation:**

Before relocating the unit, please control the unit is turned off. The power cord must be unplugged from the wall outlet, and all the connecting cables should be disconnected as well.

**Do not open this unit:**

Do not attempt to open or repair this unit yourself. For any problem not described in this owner's manual, please refer to qualified personnel only or consult us or your National Distributor. Any improper operation could result in fire or electric shock.

**Damages requiring services:**

- Do not attempt to perform operations not described in this user's manual.
- In the following cases please refer to an authorized service center or skilled personnel:
  - When the unit works improperly or it doesn't work at all.
  - If power cord or plug is damaged.
  - If liquid has spilled, or objects have fallen into the unit.
  - The unit has been exposed to rain.
  - The unit doesn't operate normally or exhibits a marked change in performance.
  - If the product has been dropped or has been damaged in any way.

**Maintenance:**

The user shouldn't attempt maintenance not described in this user's manual. All maintenance should be performed by qualified personnel only.

**IMPORTANT SAFETY INSTRUCTIONS:**

- Install this unit following owner's manual instructions.
- Do not install, connect or disconnect power supply when the unit is powered, otherwise there is a high risk of electric shock.
- Do not open the unit, there are no user serviceable parts inside.
- If you detect a particular smell from the unit, please immediately turn it off and disconnect the AC power cord.
- Don't block the unit's ventilation openings.
- Avoid using this unit in overload for a long period.
- Don't force commands (switches, controls, etc.)
- To obtain good speaker wire contact, please tighten the screw terminals firmly.
- ⚠ For safety reasons, do not defeat the grounding connection. Grounding is for user safety.
- Use only connectors and accessories suggested by the manufacturer. .
- This unit should be fitted in an equipment rack (see INSTALLATION) and kept far from:
  - Wet places
  - Direct exposure to heat sources (like sun light)
  - Improperly ventilated places
- Disconnect the power cord during storms or when the unit is not in use.
- ⚠ In order to prevent fire and reduce risk of electric shock, it is necessary to keep the unit far from dripping water. Please don't put cups, vases or other object containing liquids over the unit. In case of interference from source signal, THD value will raise over 10%. Don't place this unit in a bookshelf or in other enclosed spaces.
- We are not responsible for any damage that occurs due to a incorrect installation of the unit.

Thank you for choosing our product and for trusting our brand, which strives to be synonymous with professionalism, precision, high quality and reliability. All of our products comply with EC regulations regarding audio equipment for continuous use.

## 2. DESCRIPTION

This conference system uses digital technologies according to the European Community's IEC914 and ISO standards.

It is composed of a main unit – H-7000D – and two microphone units – Delegate (H-3800d) and President (H-3800c) – that feature high sensitivity, a wide frequency response, and a cardioid electret microphone with a lighted ring for the visual identification of the microphone in use. The system is precabled to ensure fast and easy installation.

The device may include up to 64 microphone stations, daisy-chained on four independent lines (or a maximum of 30 stations on each line).

The serial connection of each station is achieved through single multicore, prerouted cables that may be used either for fixed or mobile systems.

Main Functions:

- It directly powers and controls 64 microphone stations.
- President station has priority on others.
- Five operating modes: FREE MODE, LIMIT 1/2/3/5
- One microphone input (MIC) and one line input (LINE) for external units.
- Line output (LINE) for amplification (balanced and unbalanced).
- Microphone sensitivity level control.
- With the port for Telephone interface input and output telephone meeting is available with telephone coincidence.

*Product complies with CE regulations*

## 3. FRONT PANEL FUNCTIONS AND CONTROLS – H-7000D

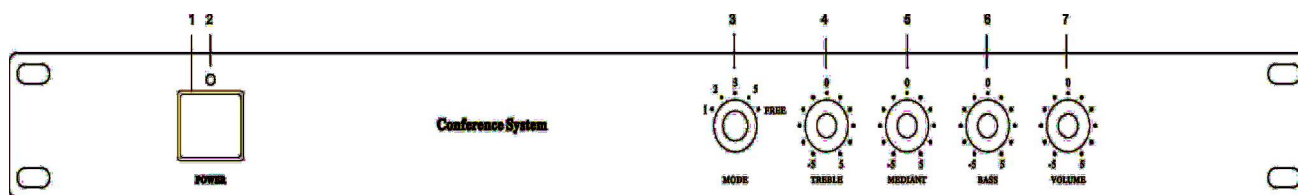


fig.1

### 1. POWER

Main power switch

### 2. POWER LED

Power indicator

### 3. MODE SELECTOR

Allows selection of one of the following modes:  
FREE MODE, LIMIT 1/2/3/5

### 4. TREBLE

Sets the treble level of external speaker

### 5. MEDIANT

Sets the mediant level of external speaker

### 6. BASS

Sets the bass level of external speaker

## 7. VOL

Sets the system amplifier audio level of external speaker

## 4. REAR PANEL FUNCTIONS AND CONTROLS - H-7000D

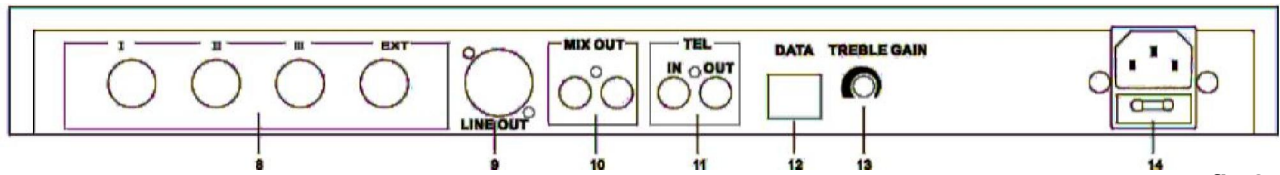


fig.2

## 8. DELEGATES

N° 4 input per President/Speaker unit. Up to 30 units can be connected to each line (do not exceed this quantity), or up to 64 units total

## 9. BAL OUT

Balanced signal output (male XLR3)  
Connect mixer or amplifier to this output

## 10. DELEGATES

Unbalanced signal output (RCA) Left and right channel

## 11. TEL IN/OUT

Connect telephone coincidence to support telephone meeting.

## 12. DATA

RJ45 interface, use for connect video processor to support video tracking function

## 13. TREBLE GAIN

Rotate this control counterclockwise to emphasize high frequencies

## 14. AC POWER SOCKET

Power 230VAC 50/60Hz , FUSE 8A

## 5. PRESIDENT (H-3800c) AND DELEGATE (H-3800d) UNIT FUNCTIONS AND CONTROLS

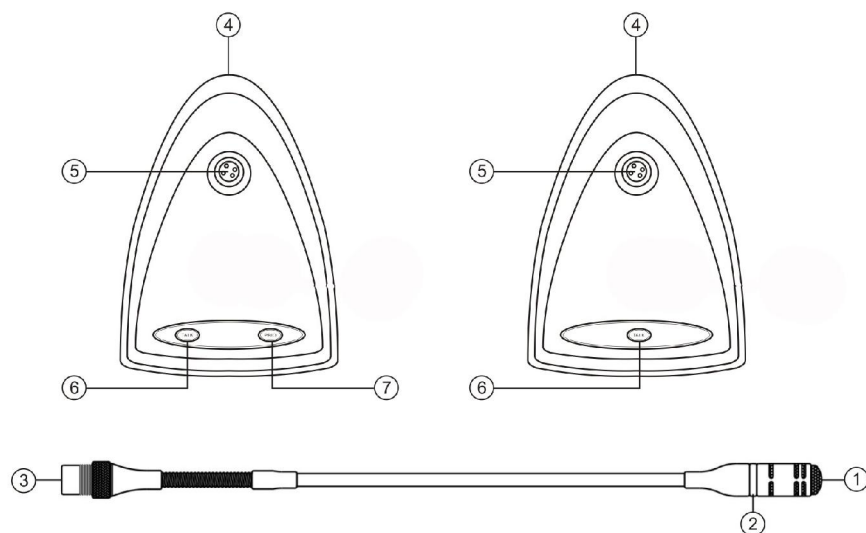


fig.3

**1. Microphone capsule**

**2. Indicator light on active microphone**

When microphone is active, indicator light switches on

**3. Gooseneck 4P connector and fix socket**

**4. 8-pin connection cable output port**

Microphone with 110cm 8P cable for connect microphone branch cable

**5. Gooseneck and base fix socket**

**6. MIC ON/OFF**

Press this button to speak (the station will be immediately enabled unless the limit of simultaneously enabled stations has been reached), Press again to turn off microphone

**7. PRIORITY**

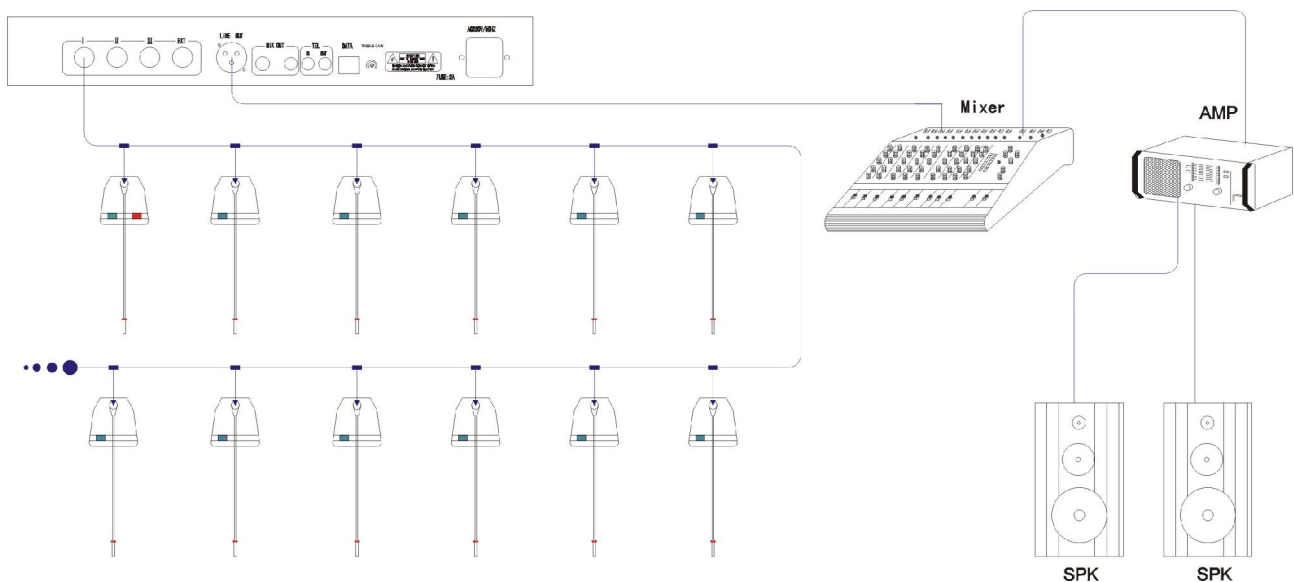
Press this button on the PRESIDENT station to disable all other speaker stations

**6. CONNECTION**

Connect the unit to 230 V AC 50/60 Hz mains . Use the connection cables provided to connect the daisy-chained stations to the 4 **BASE INPUT**s (figure 2, ref. 8) as shown in **figure 3**, paying attention not to connect more than 30 stations to each line and no more than 64 stations altogether.

In any case, the maximum limit of 64 stations cannot be exceeded.

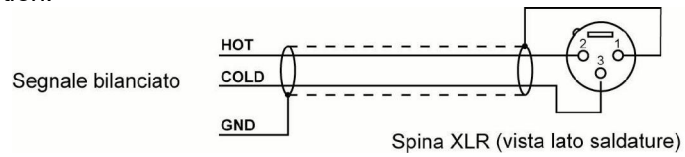
The system can host more than one PRESIDENT station. They can be inserted at any position on the chain.



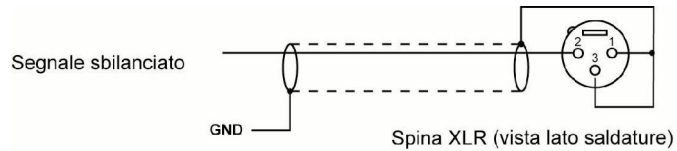
**Fig.3**

## TYPE OF CONNECTIONS

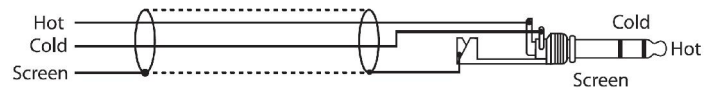
Balanced connection:



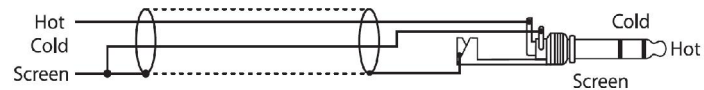
Unbalanced connection:



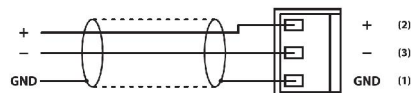
Balanced connection with TRS jack



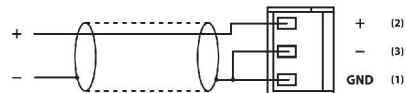
Unbalanced connection with TRS jack



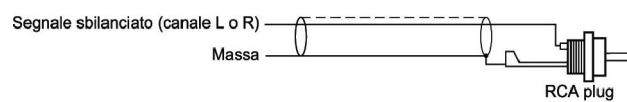
Balanced connection on EUROBLOCK connector



Unbalanced connection on EUROBLOCK connector



RCA Connection



## 7. HOW TO USE THE SYSTEM

User can set the system working mode by the mode knob (**fig1. Ref.3**)

### MODES OF OPERATION:

- **FREE MODE**

When this mode is selected, the display will read FREE MODE. In this mode, an unlimited number of participants can speak simultaneously.

- **LIMIT MODE**

When this mode is selected, this display will show LIMIT MODE, plus the number of delegates that can speak simultaneously. Once this number of delegates is reached, no further delegates will be allowed to intervene until the number of active delegate stations again falls below this limit. There are 4 options for limit number: 1/2/3/5

## 8. PACKAGE CONTENTS

H-7000: 1x Central unit, 1x 8P main cable, 1x power cable, 1x XLR M-F cable, 2x RCA-TRS cable+, 2x fuse (2A), Manual

H-3800c: 1x Base, 1x Gooseneck microphone, 1x connection cable

H-3800d: 1x Base, 1x Gooseneck microphone, 1x connection cable

## 9. TECHNICAL FEATURES

| Model              | H-7000D                               | H-3800c/H-3800d                          |
|--------------------|---------------------------------------|------------------------------------------|
| BASES              | 8P-DIN socket/n°4 BUS                 |                                          |
| BAL OUT            | Balanced XLR3Male                     |                                          |
| MIX                | Unbalanced RCA L/R                    |                                          |
| S/N Radio          | >75 dB                                | >75 dB                                   |
| Frequency Response | 20 Hz-18 kHz                          | 20 Hz-18 kHz                             |
| Sensitivity        |                                       | -44+/-2dB                                |
| T.H.D.             | <0.05%                                | <0.05%                                   |
| Dimensions (WxHxD) | 482x45x353 mm<br>1U standard 19" rack | Base: 130x160x50 mm<br>Gooseneck: 420 mm |
| Weight             | 5 kg                                  | 0.9 kg                                   |
| Power Consumption  | 100 W                                 | 1 W                                      |
| Power supply       | 230 V AC 50/60 Hz                     | 18 V DC by 8-PIN cable                   |



This product complies with Directive 89/336/EEC (Electromagnetic Compatibility) and later changes 92/31/EEC and 93/68/EEC, according to the following standards:  
**EN 50082-1:1997, EN 55013:1990, EN 55020:1994**

furthermore, it complies with Directive 73/23/EEC (Low Voltage) and later changes 93/68/CEE, according to the following standard:  
**EN 60065:1998**

We maintains a policy of constant research and development, therefore we reserve the right to apply improvements to existing equipment without prior notice.