



## ALS700

Assistive Listening System



### USER MANUAL

PLEASE READ THIS USER MANUAL COMPLETELY BEFORE OPERATING  
THIS UNIT AND RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

## CAUTION

### Follow the advice below for safe operations.

- Stop operation immediately if any liquid or solid object should fall into the cabinet.
- If the unit is not to be used for a long period of time, make sure that all power sources are disconnected from the unit. Remove all batteries from the battery compartment, and unplug the AC-DC adaptor from the wall outlet. Make it a practice to remove the AC-DC adaptor by grasping the plug and not by pulling the cord.

### ON PLACEMENT

- Do not use the unit in places, which are extremely hot, cold, dusty or humid.
- Place the unit on a flat and even surface.
- Do not restrict the airflow of the unit by placing it in a place with poor ventilation, by covering it with a cloth or by placing it on a carpet.

### ON CONDENSATION

- When left in a heated room where it is warm and damp, water droplets or condensation may form inside the unit.
- When there is condensation inside the unit, the unit may not function normally.
- Let it stands for 1 to 2 hours before turning the power on, or gradually heat the room up and dry the unit before use.

Should any trouble occur, remove the power source and refer servicing to qualified personnel.

## COMPLIANCE WITH FCC REGULATIONS

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

"This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body."

**CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

## PREPARATION FOR USE

Thank you for purchasing the **Hamilton ALS700** Wireless RF Personal Listening System. The system can be installed quickly and easily. It provides quality listening assistance in compliance with the American's With Disabilities Act (ADA), which requires public facilities with audio systems to make listening assistance available to their audiences.

The **ALS700** provides outstanding quality. This system operates up to 150 feet line of sight. The system is configured with one wireless transmitter and 6 portable wireless belt pack receivers. The system is configured with two channel in 75.5MHz and 75.9MHz band. The system is expandable to limitless receivers.

This Assistive Listening System is versatile. It can be operated indoor or out without affecting performance. Excellent for any application from small classrooms and boardrooms to auditoriums and sanctuaries. The System offers great auditory reception without seating confinements.

The **ALS700** connects to the line out from a tape player or from an existing sound systems and broadcasts the audio as a FM radio signal.

## UNPACKING YOUR ASSISTIVE LISTENING SYSTEM

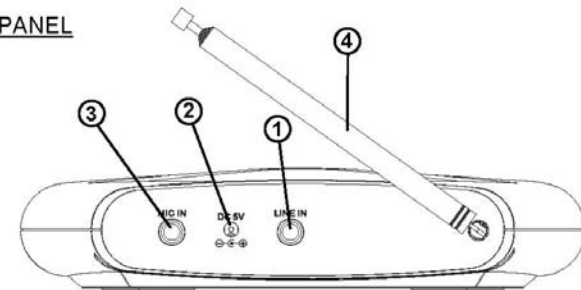
This system includes the following items:

- ALSM700 Transmitter X 1
- ALSR700 Receivers X 6
- ASLB700 Mono Earbud X 6
- "AAA" Size Batteries X 3
- Power Adapter X 1
- User Manual X 1

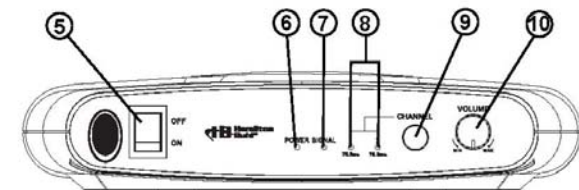
## LOCATION OF CONTROLS

### ALSM700 TRANSMITTER

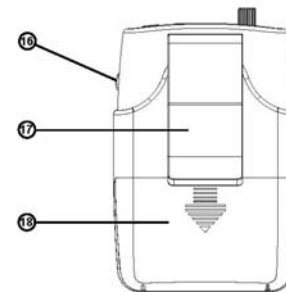
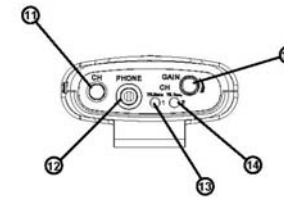
REAR PANEL



FRONT PANEL



## **ALSR700 RECEIVER**



- |    |                      |    |                     |
|----|----------------------|----|---------------------|
| 1  | LINE IN JACK         | 11 | CHANNEL BUTTON      |
| 2  | DC 5V JACK           | 12 | PHONE JACK          |
| 3  | MICROPHONE INPUT     | 13 | CH1. INDICATOR      |
| 4  | TELESCOPING ANTENNA  | 14 | CH2. INDICATOR      |
| 5  | POWER ON/OFF SWITCH  | 15 | GAIN CONTROL KNOB   |
| 6  | POWER INDICATOR      | 16 | POWER ON/OFF SWITCH |
| 7  | SIGNAL INDICATOR     | 17 | BELT CLIP           |
| 8  | CH1 & CH2 INDICATORS | 18 | BATTERY COMPARTMENT |
| 9  | CHANNEL BUTTON       |    |                     |
| 10 | VOLUME CONTROL       |    |                     |

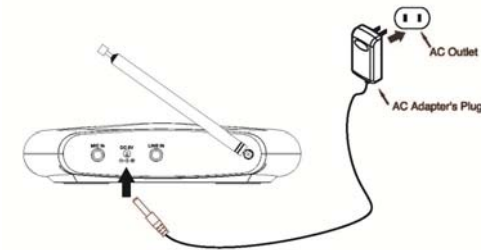
## ALSM700 TRANSMITTER

The ALSM700 Transmitter operates using the supplied AC Adapter (Operate at 120V ~ 60Hz)

### POWERING THE TRANSMITTER

NOTE: Only use the supplied adapter

1. Insert the DC plug of the AC adaptor provided into the DC 5V jack (#2) on the back panel of the transmitter.
2. Plug the other end into an AC wall socket.



**WARNING :** Before connecting to the power supply, ensure that the supply corresponds to the information on the rating label at the back of the apparatus.

3. Press **POWER SWITCH** (#5) on the power indicator (#6) will show power is getting to the system.
4. The transmitter's "signal" indicator (#7) will illuminate to confirm that the transmitter is broadcasting.
5. Press **CHANNEL** button (#9) on the front panel to select transmitted channel both channel indicator will light up.

### SETTING UP THE TRANSMITTER

The 1/4" **LINE IN** jack (#1) enables you to connect directly from an audio source such as a tape player.

**MICROPHONE INPUT** the 1/4" jack (#3) on the back of the transmitter is designed to accept either dynamic or electret microphones.



## ALSR700 RECEIVER

### FEATURES & CONTROLS

- Gain control
- Channel button
- CH1 & CH2 indicators
- Power Switch
- Phone jack

### POWERING THE RECEIVER

Install “AAA” size x3pcs in battery compartment (#18) on the back of the receiver. Observe polarity. To preserve battery life, always turn ALSR700 receiver off when not in use. When the **POWER SWITCH** (#16) to turn on, the sound becomes weak or distorted, replace battery. The life expectancy from an alkaline battery is **17-20** hours.

### BATTERY WARNING

1. Be sure that the batteries are installed correctly. Wrong polarity may damage the unit.
2. Use only the size and type of batteries specified.
3. Do not mix old and new batteries.
4. Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries.
5. For better performance and longer operating time, we recommend the use of alkaline-type batteries.
6. If the unit is not to be used for an extended period of time, remove the batteries. Old or leaking batteries can cause damage to the unit and may void the warranty.
7. Do not try to recharge batteries not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer's directions).
8. Do not dispose of batteries in fire, batteries may leak or explode.

### OPERATING THE RECEIVER

Plug the included ALSB700 earphones into the phone jack (#12) on top of the receiver. While wearing your earphones, stand near the ASLM700 transmitter.

Listen for your program source and adjust the **GAIN** control (#15) for a comfortable listening level. If no sound is heard adjust the **VOLUME** (#10) level on the transmitter.

## CONFIRMING CORRECT INSTALLATION

## SPECIFICATIONS

Frequency Response .....100 Hz – 8 KHz +/-3dB  
Signal to Noise Ratio .....30dB  
Total Harmonic Distortion ...< 3%  
RF Carrier Frequencies .....75.5MHz (Channel 1)  
75.9MHz (Channel 2)  
Frequency Stability .....Better than 1%  
Operating Range .....Up to 150 feet line of sight  
Audio Sound .....Mono

Mic Input ..... Connector: 1/4" Phone jack.  
Line Input ..... Connector: 1/4" Phone jack.

## ALSR700 Receiver

E-7

Connectors ..... 3.5mm jack for earphone output  
Earphones ..... 16 ohm Mini binaural earbuds  
Antenna ..... Integral with earphone cord  
Indicators ..... CH1 LED, CH2 LED.  
Sensitivity ..... 10uV for 30dB S/N ratio  
Power Requirement...1.5V x3 pcs. AAA size battery  
Dimensions ..... 99.5 mm.(H) x 64 mm.(W) x 33 mm.(D)  
Weight ..... Kg