voice projector

MODEL 35

INSTRUCTION MANUAL

MANUFACTURED BY

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INTRODUCTION: The Model 35 is a portable lectern which includes a fluorescent reading lamp. It is intended for use either as a table top unit or on the matching S-35 folding floor stand. It is designed to provide highly intelligible sound to an audience of up to 250 listeners, depending on ambient noise levels and overall acoustic conditions. Additional coverage may be obtained by adding Plus Power (R) extension speakers as described below.

The Model 35 includes a built-in mixer which permits the user to connect an additional microphone plus a variety of auxiliary equipment (tape recorder, AM or FM radio, phonograph, etc.) to the unit. This mixer circuit provides an individual volume control for each input to simplify balancing sound levels. The Model 35 (including the reading lamp) operates from either built-in rechargeable batteries, or from a 115 v AC source by using the CH-40 Charger which is provided. (A 220v AC version of the CH-40 is also available.)

SETTING UP THE MODEL 35: The Model 35 comes equipped with an M-111 plug-in microphone, a 16' (5.0 meter) microphone cord, a 17" (43 cm) flexible gooseneck microphone stand and a CH-40 Charger. A drawer provides convenient storage space for all of these items.

The Model 35 is so designed that the lectern surface is at an appropriate height when the unit is sitting on a 30" (75 cm) table top or on the S-35 folding floor stand. For hands-free use, the gooseneck microphone stand should be plugged into the phone jack located in the upper left corner of the lectern surface, and the M-111 microphone seated firmly on the top of the gooseneck. When the speaker wishes to use the microphone at a distance from the lectern, the 16' microphone cord may be used to connect the microphone to the auxiliary microphone input jack located on the control panel. A 25' (7.5 meter) microphone extension cord is available as an accessory.

USING THE M-111 MICROPHONE: The M-111 microphone is directional to prevent pickup of unwanted noise. Best results are obtained when the microphone is placed so that it points directly toward the user's chin and is located 4" to 12" (10 cm to 30 cm) from the mouth. For outdoor use the RK-49 windscreen, which is available as an accessory, is recommended to minimize wind noise.

For the best performance, the volume of the Model 35 should never be set at a higher level than that necessary for easy hearing by the most distant listener. Higher than necessary volume settings will decrease, rather than increase, the intelligibility of the speaker, particularly in indoor applications.

OPERATING CONTROLS: All operating controls, inputs, outputs, and indicators are located on the control panel of the Model 35, with the exception of the main microphone input and the lamp on/off switch.

The Power on/off switch is located at the top right of the control panel. This switch applies power to the entire system, including the fluorescent reading lamp. When this switch is ON, the POWER light emitting diode, located below the switch, will glow red to indicate that power is applied to the unit. In addition, special monitoring circuits associated with this indicator monitor the status of the Model 35's rechargeable battery. When the battery has been drained of 75% of its original capacity, the indicator will begin to flash. At that time the battery has sufficient power remaining for a minimum of three hours of additional use, even with the lamp operating. When the battery has been drained of 90% of its original capacity, the indicator will cease to flash red. At this time the battery has sufficient capacity remaining for a minimum of one hour of additional use. The important point to remember is that as long as the indicator is glowing red and not flashing, the battery has sufficient capacity left to handle almost any speaking situation.

The CH-40 IN jack located at the bottom left of the control panel is used for connecting the CH-40 Charger to the unit. When the charger is plugged into a standard 115v AC, 60Hz source and is properly connected to the Model 35, the CHARGER OPERATING light emitting diode will glow green. If the rechargeable battery in the Model 35 is fully discharged, about 12 hours will be required to recharge it to full capacity. The Model 35 may be used while it is being recharged, although this will increase the time required for recharging.

The Model 35 may be left on charge for months at a time without damaging the battery. Furthermore, the Model 35 may be used while the CH-40 is operating; thereby providing the equivalent of AC operation. The battery should be recharged at least once every six months even if not used, and should not be left completely discharged for more than two weeks without recharging.

The MAIN MIC control adjusts the volume level of the main microphone input located on the upper left corner of the lectern surface. A highly flexible shock mounting is provided for this input jack to isolate the microphone from any vibrations of the cabinet.

The AUX MIC volume control adjusts the volume level of the auxiliary microphone input which is directly to the right of this volume control. This input is intended for use with an unbalanced, low impedance microphone. Several suitable auxiliary microphones are available as accessories.

The HI LEVEL volume control adjusts the volume level of the auxiliary input which is directly to the right of this volume control. Any auxiliary device with a high or low impedance, 1 volt (nominal) output, such as a tape or cassette player, may be connected to the Model 35 by means of the HI LEVEL input.

The medium impedance, 1 volt (nominal) signal which is available at the HI LEVEL OUT phone jack is suitable for use as an input to tape or cassette recorder or similar auxiliary equipment having an input labeled "AUX IN" or "HI LEVEL IN".

The 3-pin audio connector at the bottom right of the panel and the associated switch below it provide eithe a Plus Power output or a LO Z MIC output. When the switch is pushed to the left, this output is suitable for use with the LECTROSONICS line of Plus Power speakers as described below. (This signal is also suitable for use as a 600 ohm balanced line driver, although Pin 1 is grounded and is connected to the center tap of the output transformer). When the switc is pushed to the right, the output is a balanced, low impedance, microphone level output suitable for connection to balanced or unbalanced, low or high impedance microphone inputs, such as those frequently found in churches, hotels, and meeting rooms.

PLUS POWER EXTENSION SPEAKERS: Virtually unlimited additional sound coverage may be obtained by connecting one or more Plus Power portable extension speakers to the Plus Power output of the Model 35. Audio extension cables are available in lengths of 25' (7.5 meters), 50' (15 meters) and 100' (30 meters), as the CP-25, CP-50 and CP-100, along with a "Y" adapter cable (CP-Y).

FLUORESCENT LAMP OPERATION: The battery operated fluorescent reading lamp on the Model 35 is rated for 3000 hours of operation and should never need replacement. The lamp is turned on by moving the LAMP switch on the lamp panel to the up position. The reading lamp will not operate unless the OFF/ON switch on the control panel is also ON. This fluorescent reading lamp should not be left on when it is not being used since it reduces available operating time between recharges from 40 hours to 12 hours.

SYSTEMS APPLICATIONS: Voice Projector sound equipment is designed to permit the user to meet a wide variety of sound system requirements. In most applications the Model 35 alone will meet the user's requirements; however, more complex applications may require use of additional microphones or speakers. The design of the Model 35 and each of the other units in the Voice Projector family of sound equipment assures great flexibility in assembling these systems without unnecessary complexity. Consult your local dealer or LECTROSONICS, INC. for additional information or assistance.

ACCESSORIES FOR THE MODEL 35: The matching S-35 folding floor stand places the Model 35 at the optimum height for the average user. It weighs less than 25 pounds and measures only 4" x 19" x 32" when collapsed. The Model 35 and the S-35 stand can be carried simultaneously by the average adult.

Freedomike wireless sound equipment can be used with the Model 35 to provide the ultimate in freedom of movement. In addition a variety of microphones, microphone extension cords, windscreens, Plus Power speakers and audio extension cables (all of which are described elsewhere in these instructions) are also available as accessories for the Model 35.