



LightSPEED

wireless
technology

LES-39I SOUNDPAK SYSTEM



USER GUIDE >>>

LES-39I

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^ 370T
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TK-250 >>>

Welcome

Your LightSPEED LES-391 SoundPak is a compact, portable amplification system that will provide clear sound between an instructor and student. The transmitter is conveniently stored in the carrying case of the LES-391.

The instructor speaks into a lightweight, comfortable headset microphone that is connected to a small transmitter. Just plug in the mic, turn on the transmitter and SoundPak and you're ready to go!

Did I Get Everything?

The LES-391 SoundPak system is made up of the 380 receiver/amplifier that fits into a carrying case (with a compartment divider), the 370T transmitter, the TK-250 headset microphone, rechargeable batteries (6-AA inside the SoundPak, and one AA for the transmitter), the BC-370 Wall Charger (370T), the BC-1A Wall Charger (LES-391), and this user guide.

Before You Begin

This system ships with rechargeable batteries. **For proper operation, it is important that the batteries in both 370T and LES-391 be charged overnight.** Power switches for both units should be in the OFF position during charging. The 370T transmitter is recharged by using the BC-370 wall charger with charger cord. The SoundPak is recharged by using the BC-1A wall charger. Optimum charging time is 8-10 hours. Charging indicator LEDs should light when proper connection is made.



BC-370 Wall Charger with 370T

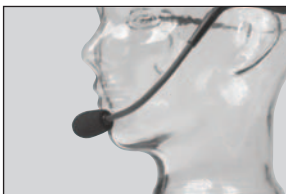


BC-1A Wall Charger with SoundPak

Daily Set Up - IT'S EASY!

1. After being fully charged, remove the charging cords from the 370T and the LES-391.
2. Check that the frequency on the 370T and the LES-391 match (for example, both set on A or both set on B). These channel switches are located on the side of the 370T and on the top of the LES-391.
3. Insert the TK-250 plug into the mic jack on the top of the 370T and position the TK-250 along the left jaw line. Proper positioning is achieved by running the headband over the top of the left ear, around the back of the head (not over the top), and then over the right ear. The microphone element should be about an inch from the left corner of the mouth with the rounded portion of the element (under the wind screen) facing towards the mouth. The TK-250 boom is adjustable. If the headband needs to be resized this can be done by grasping both ends of the wire headband and either stretching it farther apart or rolling the loop into a tighter circle. The band is made of steel wire and should easily adjust to various head sizes.

4. Rotate the volume knob on the 370T to approximately mid-way (you may need to adjust this later depending on the volume of the teacher's voice). Slide the power switch all the way to the left to the ON position (note the center, MUTE position).



TK-250 Headset Microphone

5. With the front of the LES-391 facing the student, turn on the LES-391 power switch by rotating the "Power/Vol" switch clockwise until it clicks on. Continue to rotate the volume knob clockwise until the desired volume is achieved. CAUTION: If you increase volume too much, feedback may occur (a howling sound). To eliminate this problem, decrease the volume level and/or move the TK-250 farther away from the LES-391.
6. To conserve transmitter battery life, the LES-391 should be turned off when not being used.

Features

Dual Channel

The LES-391 comes equipped with two frequency channels. Select the frequency that works best for the classroom. Be sure that both the 370T and the LES-391 are on the same frequency.

Microphone Input

The LES-391 is equipped with a microphone jack on the top. This supplies bias voltage in the event that it is needed.

Headphone Output

The LES-391 has a headphone jack on the side of the unit that allows private listening.

Micro Link Compatibility

The LES-391 frequencies are designed to be compatible with MicroLink* frequencies. (*™ of Phonak Group)

A hand-held wireless microphone is available, please contact Lightspeed for more information.

Troubleshooting

Please go through this checklist before calling LightSPEED Technologies Service Department. *Note: Most problems associated with wireless FM systems are directly related to low battery power. Check the batteries and chargers.*

Battery Check:

- Confirm batteries are charged each night. With proper charging, batteries should last about one school year.
- Confirm charging LED is on while charging.
- Be sure the 370T and LES-391 are turned off while charging.

Hearing Static:

- Test the 370T with a fully charged AA battery.
- Confirm the the TK-250 cable is inserted securely into the 370T.
- Check battery contacts. Clean if necessary.
- If static occurs only when wiggling the TK-250 cord, determine whether the static is coming from the cable or the 370T jack by firmly holding the plug into the jack and moving the cord along its length.
- If you have access to another microphone, try it in the 370T. If it works, your original microphone may need to be repaired. If the system checks out okay, and you still hear some occasional static or popping, you may be experiencing radio frequency interference (RFI). If the microphone is okay, and you think it may be interference, try switching the channel to the other frequency and see if the interference goes away. Confirm that your frequency is not being duplicated by another wireless FM system within the building. Continued RFI may require exchanging your system for one with a different frequency.

Low Volume:

- Check volume level on LES-391 and adjust as necessary. Clockwise adjustment of the volume knob will increase volume.
- If volume is too low, check to be sure that the batteries are properly charged in the 370T and the SoundPak.

Sound Fades In and Out (Drop Out):

- Test the 370T with a fully charged AA battery.
- Make sure the batteries in the LES-391 are properly charged as well.
- Check volume level on the 370T. Normal levels should be achieved with the volume knob set in the middle. If the teacher has a quiet voice, it may need to be set at a higher level.

No Sound From Speaker:

- Check the LES-391 volume level.
- Confirm the 370T and SoundPak have matching frequencies. (A with A or B with B)
- Confirm the TK-250 cable is securely inserted into the 370T.
- Confirm the 370T power switch is turned on and that its power LED is lit.
- Confirm that the LES-391 is turned on and that the power LED is lit.
- Confirm that there are no headphones plugged into the headphone jack.

[caution!]

Do not attempt to charge alkaline batteries—they can overheat and expand, creating a significant hazard and damaging equipment.

Maintenance

The LES-391 system is designed to be durable and trouble-free for many years of use. The largest maintenance issue is improper battery management. Both the 370T battery and the LES-391 batteries need to be charged daily in order for the system to operate properly. Correct charging procedure also has a great impact on the overall useful life of the batteries. *In order to allow the charger to completely charge the battery, the 370T and LES-391 power switches need to be in the OFF position during charging.*

The 370T and LES-391 should not be left plugged into the chargers for extended periods of time. If you are going to store these products for 5 or more days they should be charged for about 8 hours and then stored in a relatively cool location. If the length of storage time is several weeks or more, the batteries should then be recharged before using. This system is shipped with Nickel Metal Hydride (NiMH) rechargeable batteries. They do not develop a “memory” problem like NiCad batteries, but these batteries should not be fully discharged. The best battery management is to charge the batteries for 8 to 10 hours and then unplug them from the charger. It is okay to charge the system for short periods of time.

System Care

370T Care:

Cleaning the microphone jacks, and battery contacts will help ensure that your system gives you years of reliable operation. We recommend using a “deoxidizer” or contact cleaner every 2 or 3 months.

Battery Maintenance & Care:

- When replacing batteries in the 370T or the receiver/amplifier, pay close attention to polarity (matching + to +, etc.).
- Batteries should fit snugly against the contact points inside the battery compartment.
- Batteries are to be charged each night and over the weekends. They should not be left charging over extended periods such as through the summer or during Christmas and spring breaks. Prior to extended breaks, systems should be fully charged and stored in a cool, dry place. After extended breaks, re-charge batteries prior to initial use.

[caution!]

Do not attempt to charge alkaline batteries—they can overheat and expand, creating a significant hazard and damaging equipment.

If you have gone through this checklist and are still having problems, write down the serial number and model number of your system and call LightSPEED Technical Services at: 800.732.8999, or email at: info@lightspeed-teck.com

FCC Notice

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.

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

This equipment has been tested and found to comply with the limits of 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.

If this equipment causes 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 television/radio antenna.
- Increase the separation between the 370T and television/radio.
- Connect the equipment into an outlet on a circuit different from that to which the television/radio is connected.
- Consult LightSPEED for help.

Warranty

ONE-YEAR LIMITED WARRANTY TO ORIGINAL PURCHASER.

The LES-391 is guaranteed against malfunction due to defects in materials and workmanship for a period of one year, beginning at the date of original purchase. If such a malfunction occurs, the product will be repaired or replaced (at our option) without charge during the period and under the limitations stipulated in the data sheet or this user's manual. Limited exclusions specifically apply to microphone elements and their assemblies, also external cables, wires and batteries. Warranty on microphones/microphone elements is limited to the original manufacturer's warranty. If delivered prepaid to the LightSPEED warranty service center, the unit will be returned prepaid. Warranty does not extend to finish, appearance items, or malfunctions due to abuse or operation other than specified conditions, nor does it extend to incidental or consequential damages, so the above exclusion may not apply to you. Repair by other than LightSPEED or its authorized service agencies will void this guarantee. Information on authorized service agencies is available from LightSPEED.

LightSPEED offers a 30-day money back guarantee on the purchase price of this product. All shipping and handling costs are the responsibility of the purchaser.