

LIFETONE HL™

Bedside Fire Alarm & Clock



Sleep Safely™

User's Manual

MODEL HLAC151

ENGLISH



Lifetone Model No. HLAC151 Single- and/or Multiple-station Smoke Alarm Accessory. **S24639: UTGT, UTGT7, UUKC** Low frequency sounder. Listed by UL to UL 217 and ULC S531 for use with residential smoke alarms and commercial notification appliances in US and Canada, and listed to UL 1971 when used with bed shaker. NFPA 72 compliant, editions 2010 - 2013 .

LIFETONE HL™
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 & Clock



USER'S MANUAL

MODEL HLAC151

**PLEASE READ THIS USER'S MANUAL COMPLETELY
 AND THOROUGHLY BEFORE BEGINING!**

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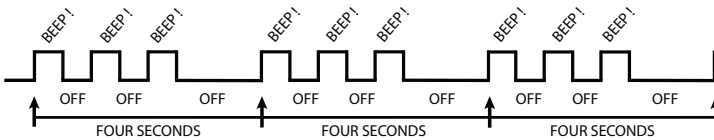
I. INTRODUCTION

Thank you for purchasing the Lifetone HL™ Bedside Fire Alarm and Clock. It is an important part of your family's safety plan. The Lifetone HL™ is not a smoke detector and does not detect smoke. Instead, it detects the alarm sounds made by smoke alarms and smoke alarm systems that are UL- listed, or Intertek-listed to, and compliant with, the UL 217 (US) or ULC S531 (Canada) standard T3 alarm signal.

YOU MUST HAVE PROPERLY INSTALLED UL 217 OR ULC S531 LISTED AND COMPLIANT T3 SMOKE ALARMS IN YOUR HOME BEFORE THE LIFETONE HL™ BEDSIDE FIRE ALARM AND CLOCK WILL OPERATE CORRECTLY.

What is UL? "UL" is Underwriters Laboratories, a global safety standards organization that defines signals of this kind, as well as standards for a wide range of commercial products. The "217" or "S531" identifies the applicable standard for smoke alarms.

What is a T3 smoke alarm? The UL 217 or ULC S531 compliant T3 pattern is an alarm signal that is on and off for ½ second three times in succession followed by a 1½ second pause. An on/off representation of three cycles of that sound looks like this:



And it sounds like this:

“beep-beep-beep-pause” then “beep-beep-beep-pause”, and this continues. Some alarms may have voice messages in the pauses. Those alarms will be compatible if, in a true emergency, the voice messages are less than 1½ seconds long and fitted into the 1½ second pause, or the voice message follows eight (8) consecutive T3 signals, each 4 seconds in duration.

The Lifetone HL™ Bedside Fire Alarm and Clock will detect this T3 pattern and activate a loud, low (520 Hz) multiple frequency alarm, and activate the Lifetone Bed Shaker (optional equipment).

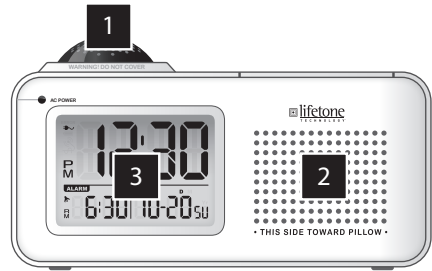
Scientific research has proven the 520 Hz alarm to be more effective at awakening and alerting people with hearing loss. Together, the Lifetone HL™ alarm and the optional Lifetone Bed Shaker provide effective awakening and alerting for those with normal hearing loss that comes with age or exposure to loud noise, and the deaf.

The Lifetone HL™ Bedside Fire Alarm and Clock (“Lifetone HL™ Fire Alarm”) is an assistive alerting device intended for use in a residence by individuals with hearing loss or the deaf. It is to be placed in a nighttime sleeping area next to a bed. The Lifetone HL™ Fire Alarm will detect the T3 emergency signal given by existing, properly placed UL 217-listed and UL -217 (or ULC S531) compliant smoke alarms. When a smoke alarm is detected, the model HLAC151 will give its own emergency signal at a lower frequency (520 Hz), which may be heard by individuals with hearing loss. The product also gives its emergency signals visually on a display screen and with an optional tactile Bed Shaker, either of which may be detected by deaf individuals in their beds. The Lifetone HL™ Fire Alarm is not intended for use in marine watercraft, recreational vehicles (RVs), mobile homes, or hospitals.

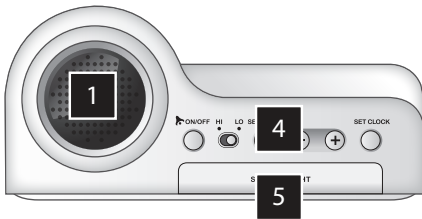
II. LIFETONE HL™ BEDSIDE FIRE ALARM AND CLOCK

A. CONTROLS AND DISPLAY

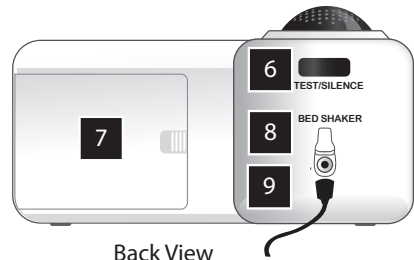
1. Microphone grille and dust protector
2. Speaker – Must face pillow
3. Clock and Status Display
4. Wake Up Alarm and Clock Controls
5. Snooze/Light button
6. Test/Silence button
7. Battery Compartment
8. Optional Bed Shaker plug
9. Power Cord



Front View



Top View



Back View





Power Cord is below
the Bed Shaker Plug.

B. FEATURES

1. A patented detection technology that constantly listens for and detects only UL-listed and NFPA recommended smoke alarms that emit a UL 217 compliant T3 signal.
2. A low pitched alarm sound at 520 Hz that has been shown to be more effective for waking and alerting individuals with hearing loss.
3. A tactile alarm is provided in the form of an optional UL-listed Lifetone Bed Shaker that vibrates intermittently if there is an emergency alarm and in a continuous manner for the wake-up alarm.
4. A Silence button that can silence the emergency alarm temporarily. If the smoke alarm is detected again, the emergency alarm will sound again within 10-15 seconds.
5. In the event of a power failure, the Lifetone HL™ can operate in battery backup mode for a minimum of 7 days and still provide emergency alarm signals.
6. As a safety feature, when AC or battery power is first applied, the Lifetone HL™ will require a test of your installed smoke alarms.
7. The model HLAC151 provides voice prompts to assist with the set-up, and a provision for periodic audio sensitivity testing with your smoke alarms to demonstrate that they are still detected if you move or replace them.

B. FEATURES (continued)

8. If the optional Lifetone Bed Shaker is used and becomes unplugged, the word "bedS" and a flashing bed shaker icon will appear on the screen, and a low frequency chirp will sound every 5 seconds.
9. If AC power is lost, the red power LED, located on the front left corner, will go out. In the left corner of the display, an "ERROR" message and an AC plug icon will flash.
10. If the batteries are missing or too low to support 24 hours of battery operation, the word "BATT" will appear on the screen in large text, a low pitched "chirp" will sound, and the bed shaker will "twitch" at one minute intervals. If the batteries are low, replace them immediately to ensure your safety. When replacing batteries, do not unplug the HLAC151. Keeping it powered during battery replacement will preserve the set-up information.

ICON	DESCRIPTION
ERROR	Generic error message
	AC Power is unplugged
	Batteries are low or missing
	Optional Bed Shaker is unplugged or defective
	Wake up alarm is activated

III. WARNINGS

READ AND UNDERSTAND THESE WARNINGS BEFORE INSTALLING AND OPERATING YOUR LIFETONE HL™ BEDSIDE FIRE ALARM AND CLOCK.

See instructions in Section IV of the User's Manual

WARNING! ALWAYS install UL-listed T3 smoke alarms in proper locations in your home before operating the Lifetone HL™ Fire Alarm. Failure to verify that all existing smoke alarms are UL 217 listed and UL 217 compliant with this product may obstruct proper operation, which may result in personal injury or death.

WARNING! FREQUENTLY TEST the Lifetone HL™ Fire Alarm to assure its proper operation with your existing smoke alarms. Failure to test this product frequently may obstruct its proper operation, which may result in personal injury or death.

WARNING! ALWAYS keep noise levels in your home to a maximum of 70 dB or lower. Excessive noise levels may obstruct the emergency signals given by your existing smoke alarm to the Lifetone HL™ Fire Alarm, which may result in personal injury or death.

WARNING! DO NOT use the Lifetone HL™ Fire Alarm with acoustic sound-dampening wall or ceiling materials. These materials may reduce sound levels and obstruct the emergency signal given by the product, which may result in personal injury or death.

III. WARNINGS (continued)

WARNING! ALWAYS face the Speaker towards the pillow. Improper orientation of the Lifetone HL™ Fire Alarm to the user may obstruct proper operation, which may result in personal injury or death.

WARNING! Do not obstruct the raised Microphone Grille and Dust Protector. Covering or blocking this component may obstruct proper operation, which may result in personal injury or death.

WARNING! Always use the batteries specified by this User's Manual. Do not use rechargeable batteries. Use of different batteries may damage the product or cause it to fail to detect a signal from an activated smoke alarm, which may result in personal injury or death.

WARNING! Do not use the Lifetone HL™ Fire Alarm where the humidity exceeds 95% or where the surrounding temperature is lower than 32°F (0°C) or higher than 120°F (49°C). Constant exposure to high or low temperatures or excessive humidity may obstruct the product's intended signaling performance, which may result in personal injury or death.

WARNING! This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

WARNING! Do not ignore any emergency alarm. Failure to investigate for smoke or fire after having received an emergency signal may result in personal injury or death.

WARNING! Because there are environmental acoustic variables involved, such as background noise levels and distance to your smoke alarms, and variations in some smoke alarm T3 signal periods and timing, the setup test result cannot guarantee that your smoke alarms will always be detected within 30 seconds in the event of an emergency. See the instructions and section G. TESTING THE LIFETONE HL™ for details.

IV. OPERATING INSTRUCTIONS

READ AND FOLLOW THESE INSTRUCTIONS BEFORE OPERATING YOUR LIFETONE HL™ BEDSIDE FIRE ALARM AND CLOCK

See *Warnings in Section III of the User's Manual.*

1. Make sure your existing smoke alarms are UL listed and compliant T3 smoke alarms. You must have properly installed UL listed and compliant T3 smoke alarms in your home before the Lifetone HL™ Bedside Fire Alarm and Clock will operate correctly. Read and follow the instructions and warnings that accompany your existing smoke alarms. If you are unsure whether your existing smoke alarms are UL listed and compliant, ask the manufacturer of those products or your local fire official about your smoke alarms. Investigate further until you are satisfied that your existing smoke alarms are UL listed and compliant T3 smoke alarms.

Do not use the Lifetone HL™ Fire Alarm with First Alert talking alarms made prior to 24 October 2011. Some may pass the setup test, but have a variable-length T3 emergency signal that is not UL 217 compliant (UL-217 6th Ed, 34.3.2b) and cannot be recognized by the Lifetone HL Fire Alarm. First Alert talking alarms made after that date may have a UL 217 compliant T3 signal and if they do, those alarms will be compatible with the Lifetone HL Fire Alarm. See section G. TESTING THE HLAC for details or call the manufacturer.

IV. OPERATING INSTRUCTIONS (continued)

READ AND FOLLOW THESE INSTRUCTIONS BEFORE OPERATING YOUR LIFETONE HL™ BEDSIDE FIRE ALARM AND CLOCK

See *Warnings in Section III of the User's Manual.*

2. Test your Lifetone HL™ Fire Alarm frequently with your smoke alarms.
Press the red TEST/SILENCE button on the back. After the Lifetone HLAC151 test fire alarm stops, look for the ⚡ icon on the display. Then go to your smoke alarm and press the test button on that. This test may identify smoke alarms in your home that are not functioning. See section IV, G. TESTING THE LIFETONE HL™ for detailed testing instructions.
3. Keep noise levels in your home to a reasonable minimum during use. Your Lifetone HL™ Fire Alarm is at its best in a quiet environment next to your bed or in a nighttime sleeping area. Excessive noise may mask an emergency signal from your smoke alarms and may increase the amount of time to detect that signal.
4. Keep the Microphone Grille and Dust Protector free and clear. Do not cover the top of the unit with anything. The domed microphone area must be unobstructed to assure proper operation of the product.
5. Keep your Lifetone HL™ Fire Alarm connected to an electrical outlet. Check the red power lamp on the front to be sure the unit has not been accidentally unplugged. The Lifetone HL™ is not meant to operate on batteries alone for extended periods of time. Do not rely upon the batteries for normal operation. The batteries are for backup during power outages.
6. Do not plug your Lifetone HL™ into a “switched” electrical outlet (i.e., an outlet that is controlled by a wall switch).
7. Replace the batteries in your Lifetone HL™ as needed. Replace the batteries at least once a year in your Lifetone HL™ or more often if there have been frequent or extended power outages. The Lifetone HL™ will give an audio “chirp” once each minute and flash “BATT” on the screen to signal low batteries.
8. Do not unplug the unit from AC power when you change the batteries. As long as the Lifetone HL™ has AC or battery power, it will preserve your setup information so that you don't have to do the setup test again. When batteries are changed is also a good time to conduct alarm tests. See section G. TESTING THE LIFETONE HL™.
9. Use the correct batteries in your Lifetone HL™ Fire Alarm. Use four (4) D cell alkaline batteries in your product. Do not use rechargeable batteries because they may damage your Lifetone HL™ Fire Alarm.
10. Face the display screen toward you. The Display screen and speaker must face you to assure proper operation of the product.
11. Attend to the notifications on the display screen. Smoke or fire emergency signals appear there. Other visual signals indicating normal operation and errors are shown on the screen. With the exception of the time-of-day colon, any flashing symbol is intended to attract your attention.

V. BEFORE INSTALLING

The Lifetone HL™ cannot awaken or alert you to smoke or fire if your existing smoke alarms do not operate or if they do not have the UL-listed and compliant T3 emergency signal. The Lifetone HL™ WILL NOT OPERATE with smoke alarms that do not use the UL 217 compliant T3 pattern alarm signal.

When you power up the Lifetone HL™, you will be required to perform a Smoke Alarm Setup Test. If your home does not have T3 smoke alarms, the Smoke Alarm Setup Test will not be successful. You must replace the older alarms with current UL-listed and compliant T3 smoke alarms before your Lifetone HL™ will operate correctly. Refer to your smoke alarm's user manual to determine when to replace your smoke alarms or their batteries.

VI. INSTALLATION AND ACTIVATION

A. LOCATION OF THE LIFETONE HL™

1. Place the Lifetone HL™ next to your bed and 3 feet from where your head will be.
2. Face the speaker toward the pillow.

B. POWERING THE PRODUCT

1. If you have purchased the optional bed shaker, you may plug it in on the back of the clock now, or after it has been set up. The plug is labeled "Bed Shaker".

2. Remove the battery door located on the back of the clock.

3. Insert 4 D cell alkaline batteries, matching the polarity (+ and -) signs in the open compartment.

The word "TEST" should appear on the screen.

4. Replace battery door securely.

5. After installing the batteries, plug the Lifetone HL™ into the electrical outlet closest to your bedside location. Do not use a switched outlet.

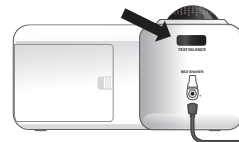
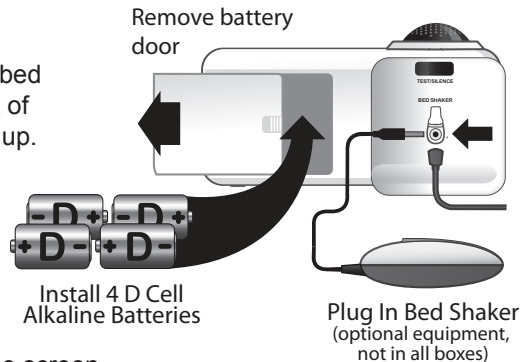
6. The word "TEST" will begin flashing. The Lifetone HLAC151™ will say, "Press the red button to begin".

7. Press and release the red TEST/SILENCE button on the back of the clock. The word "TEST" will stop flashing and the HLAC151™ will say "Please wait".

8. After about 30 seconds the word "TEST" will begin flashing again. Your Lifetone HLAC151™ will say "At the tone, test your smoke alarm". That indicates that the HL™ is ready to begin the setup test.

NOTE: The batteries are for backup in the event of a power outage only.

The Lifetone HL™ is not meant to run on batteries alone for long periods of time.



C. SMOKE ALARM SETUP TEST

For your safety, the Setup Test with your smoke alarm is an essential part of setting up your Lifetone HL™.

This important test will determine if your existing smoke alarms are of the T3 type and compatible with your Lifetone HL™.

ALWAYS ASK FOR ASSISTANCE WHENEVER YOU ARE UNABLE TO PROPERLY AND SAFELY ACTIVATE YOUR EXISTING SMOKE ALARMS DURING THE SMOKE ALARM SETUP TEST. IF YOU HAVE A MONITORED SMOKE OR FIRE ALARM SYSTEM, CONTACT YOUR SERVICE AND TELL THEM YOU ARE TESTING YOUR SYSTEM. WHEN YOU ARE FINISHED, CALL THEM AGAIN TO TELL THEM YOUR TESTS ARE COMPLETED.

1. Your HLAC151 will say "At the tone, test your smoke alarm" and then it will sound a tone. Locate the most distant smoke alarm you want detected. If you have an interconnected alarm system, use the nearest smoke alarm. It is recommended you use an alarm that is easy to reach and activate, avoiding alarms on high ceilings.

2. Press and hold the test button on the smoke alarm until the Lifetone HL™ alarm sounds. At least two smoke alarm T3 cycles (groups of 3 beeps) are required. You may need as many as six in a row if there is excessive background noise or your alarms are distant.

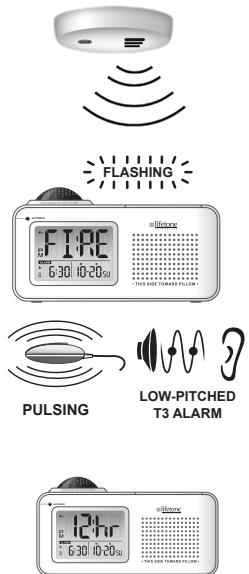
3. If the test is successful, your HLAC151 will sound its alarm, the bed shaker will vibrate, and "FIRE" will flash on the screen.

If the test was not successful, use a nearer smoke alarm and try again. You may repeat the test as many times as necessary until you have a successful result. Your Lifetone HALC151™ will say "At the tone, test your smoke alarm" every 5 minutes until you are successful.

4. After a successful test, the HLAC151 will say "Now set the clock", and "12hr" will flash on the screen.

5. If you have a First Alert talking alarm model SCO7 or SCO500 made before October of 2011 (see the back of the alarm for the date), you must also do a functional test as described in section G. TESTING THE LIFETONE HLAC to ensure that the emergency signal from that alarm is compatible.

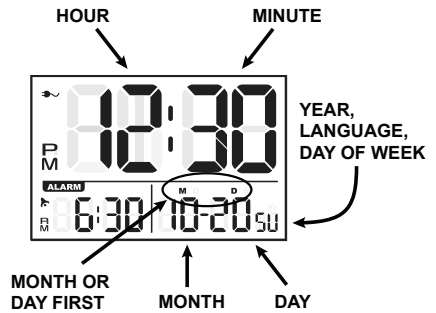
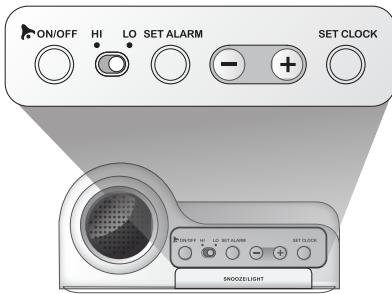
If the setup test is not successful after several tries, you may have an incompatible smoke alarm. Please refer to section H. UNSUCCESSFUL SMOKE ALARM SETUP TEST.



D. SETTING THE CLOCK

NOTE: If at any time during this process you need to start over, press and hold "SET CLOCK" until the flashing "12 hr" appears, and repeat the steps below.

Buttons on the top of the Lifetone HL™.



1. The "12 hr" time display is flashing. To select a 24 hour display format press + or -. Then press SET CLOCK to proceed to setting the hour.
2. 12:00 PM (noon) will flash. Use + or - to increase or decrease the hour. Then press SET CLOCK to set the minute.
3. Use + or - to increase or decrease the minute. Then press SET CLOCK to set the year.
4. The year "08" will be flashing in the lower right corner. Use + to increase the year. Then press SET CLOCK to proceed to the date setting.
5. A small "M" and "D" above the month and day numbers will be flashing. This is the option for month first or day first in your date display.
 - a. If you prefer the month first, simply press SET CLOCK to go on.
 - b. If you prefer the day first, use the + or - button, then press SET CLOCK.
6. "E" (for English) will be flashing at lower right. Press SET CLOCK for English. If you prefer Spanish (S) or French (F) for the day of the week, use + or "-" to select and press SET CLOCK.
7. The clock has been successfully set.
8. If the wake-up hour at lower left is flashing, press SET CLOCK again. The little bell icon means that the wake-up alarm will sound at that hour. Press the ON/OFF button once to disable the wake-up alarm.
9. The clock will show the day of the week to the right of the date. If you prefer to display the year, press SET CLOCK.

When you need to reset the clock for daylight savings time, press and hold SET CLOCK until the flashing "12 hr" appears, and repeat the steps above.



E. SETTING THE WAKE-UP ALARM

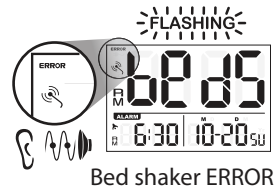


1. Press and hold SET ALARM until the wake-up hour is flashing.
2. The wake-up hour is flashing. Press + or - to select the hour, then press SET ALARM.
3. The wake-up minute is flashing. Press + or - to select the minute then press SET ALARM.
4. If the bell icon (🔔) is visible on the screen, your wake-up alarm is active.
5. Press the ON/OFF button on the top of the clock to make the bell icon disappear, and the wake-up alarm is not active. If active, the low-pitched wake-up alarm will sound as an intermittent beep (not a T3 signal). The time of day will flash on the display, and if a bed shaker is attached, it will vibrate continuously.
6. Pressing the SNOOZE/LIGHT button on top of the clock will temporarily stop the alarm and it will sound again 10 minutes later. The bell icon will flash during that time. Or you can press ON/OFF to stop the alarm. It will go off again 24 hours later.
7. You can adjust the volume of your wake-up alarm to sound Low or Hi. The HI-LO switch is located on the top of the Lifetone HL™. During a fire emergency the alarm volume will automatically switch to high.

When you need to change your wake-up time, press and hold “SET ALARM” until the wake-up hour is flashing, and then repeat the steps above.

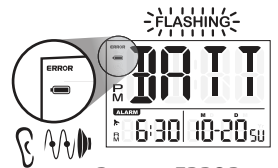
F. TROUBLESHOOTING ERROR MESSAGES

Bed Shaker: If the display shows “beds”, a flashing bed shaker icon, and a low pitched tone is coming from the Lifetone HL, make sure the bed shaker is completely plugged in. If this continues, the bed shaker may not be working. Call Customer Service at 1 800 648-7923 for assistance.



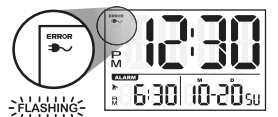
Bed shaker ERROR

Batteries: If the display shows “BATT”, the battery icon is flashing on the display, and the clock is sounding a low pitched chirp every minute, the batteries are low or improperly inserted. Remove the batteries and insert them again, making sure to match the polarity (+ and -) signs in the open battery compartment. If this continues, the batteries must be replaced. Do not unplug the Lifetone HL when changing batteries.



Battery ERROR

Loss of AC power: If the Lifetone HL comes unplugged from the wall or there is a power outage, the red AC power light on the front of the unit will go out and the plug icon will blink. The HLAC is on back-up power. The batteries will last for seven cumulative days of power outages.



AC power is off

G. TESTING YOUR LIFETONE HL™

The Lifetone HLAC depends on working UL-listed and compliant T3 smoke alarms in your home. Testing your smoke alarms and your Lifetone HLAC on a regular basis is the best way to ensure your safety.


Because test procedures for smoke alarms may vary, you must refer to your smoke alarm manufacturer's manuals for descriptions and instructions for testing your smoke alarms.

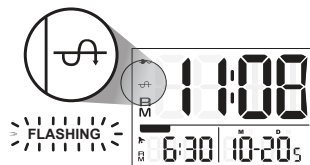
There are three ways you can test your HLAC:


- **Self test**
- **Audio sensitivity test**
- **Functional test**

1. WEEKLY TESTS:

• **The self test.** Press and hold the red TEST/SILENCE button for two seconds or until "TEST" appears on the screen. Release the button. After 15 to 30 seconds, "FIRE" will appear on the display and the clock will sound three T3 alarm cycles. This demonstrates that the microphone, speaker and other electronic components are working properly.

After the self test is complete the HLAC151 will return to normal operation and display the  icon. For two minutes it will be responsive to two T3 cycles from your smoke alarms. If you wish, you may now do an audio sensitivity test using your smoke alarms with the Lifetone HLAC151™.



• **The audio sensitivity test.** To test the audio sensitivity of your HLAC151™ with your smoke alarm, press the test button on your nearest installed smoke alarm during the 2 minutes that the  icon is displayed. When the HLAC151™ detects your smoke alarm, it will sound its lower-pitched alarm. The alarm will stop by itself after three T3 alarm outputs. Go to the next smoke alarm in your home within 2 minutes and press the test button on that one. Repeat until all smoke alarms have been tested.


Note that the two minute period starts over each time a smoke alarm is detected. Moving from smoke alarm to smoke alarm and repeating the test will verify that the smoke alarms in your home are working, and can also show you what the distance and background noise limits of detection are in your home.

IF YOU MOVE YOUR HLAC151, OR MOVE OR REPLACE YOUR SMOKE ALARMS, CONDUCT THE SELF TEST AND THE AUDIO SENSITIVITY TEST TO BE SURE THE MOVED OR NEW SMOKE ALARMS ARE PROPERLY DETECTED.

2. ANNUAL TESTS:



Replace the batteries in your Lifetone HLAC every year, and follow the manufacturer's recommendations for replacing batteries in your smoke detectors. Then conduct the weekly self test, the audio sensitivity test, and then this functional test.

• **The functional test.** This test, which simulates an emergency, is recommended by Lifetone to demonstrate that the HLAC and your smoke alarms work together. The test requires at least seven consecutive uninterrupted T3 cycles of 4 seconds duration each. If your alarm does not produce at least seven T3 cycles in response to the test button, contact your smoke alarm manufacturer and inquire about a safe functional test procedure with a UL-listed simulated or imitation canned smoke designed specifically for the purpose. Follow your manufacturer's instructions.

The HLAC must be in normal operating mode, and NOT displaying the  icon. Initiate the smoke alarm emergency signal for at least 7 consecutive T3 cycles by holding down the smoke alarm test button, or by using the simulated smoke if and as directed by the manufacturer.

During a functional test, the HLAC will normally respond in six to eight T3 cycles. If background noise levels are high or the smoke alarm is distant, as many as ten or twelve T3 cycles may be required.

When the HLAC sounds its alarm, the function test is successful. Silence it with the red TEST/SILENCE button on the back. If the HLAC does not sound its alarm after twelve T3 cycles, you may have a non-compliant incompatible smoke alarm. Call Lifetone customer support at 1-800-648-7923 for assistance.

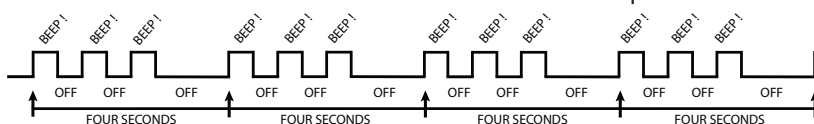
A functional test also serves as an audio sensitivity test for a particular alarm, but in this case the HLAC must be silenced manually with the red button. Note that the HLAC will be in high sensitivity mode for 2 minutes afterward, with the  icon displayed. In order to repeat the functional test with another smoke alarm you must wait for two minutes until the  icon disappears.

H. UNSUCCESSFUL SMOKE ALARM SETUP TEST

If the HLAC did not flash “FIRE” and sound an alarm, your existing smoke alarms were not detected or are not compatible with the LIFETONE HL™. Check the following conditions:

- Is your smoke alarm a UL 217 listed and compliant T3 smoke alarm?

Beginning in 1999, most residential building codes required UL 217 listed or compliant T3 smoke alarms. Alarms manufactured after that were required to meet that standard.



A T3 signal is a set of three ½ second beeps, ½ second apart, followed by 1½ seconds of silence, and that signal is repeated. In a true emergency the first 8 cycles must each be 4 seconds long. If there are not distinct groups of three pulses, or the time between sets of pulses varies in length during the first 32 seconds of an emergency alarm, the alarm is not UL 217 compliant (UL 217 6th Ed, 34.3.2b).

- Is the Lifetone HLAC™ screen active?

If not, check the batteries and AC power source for the HLAC (the red LED on the front should be lit). Make sure the HLAC is not plugged into a switched outlet.

- Has unusually loud background noise been eliminated?

Make sure the black microphone dome on top is unobstructed.

- Is the smoke alarm signal distant or obstructed by sound barriers?

Extreme distance and heavy, tightly fitted doors can reduce the smoke alarm sound level. Try a closer alarm. This will show you what the distance and sound level limits of detection are in your home.

If you have checked the above, and additional smoke alarm setup tests are unsuccessful, please contact us at 1-800-648-7923.

VII. USING THE LIFETONE HLAC™

A. RECOGNIZING THE HLAC EMERGENCY ALARM SIGNALS

1. The word "FIRE" will appear and flash on the screen. The loud 520Hz alarm will sound for 10 minutes or until it is silenced.
2. If an optional bed shaker is attached, it will pulse repeatedly with a 1 ½ second on, 2 ½ second off pattern. This is different from the steady vibration of the wake-up alarm.
3. If the alarm has been silenced and the patented detector continues to hear a smoke alarm, the alarm will sound again within 15 seconds.
4. If a nuisance alarm should occur due to cooking smoke, silence the smoke alarm first, and then the Lifetone HLAC™.



DO NOT IGNORE ANY ALARM, ESPECIALLY A REPEATED ALARM. EVACUATE AND THEN EVALUATE IT FROM A PLACE OF SAFETY.

B. TEST/SILENCE BUTTON

1. The TEST/SILENCE button on the back of the clock is not a reset button. After set-up and in normal operation, it is used to silence an active fire alarm, or to start a manual test.
2. Do not use the TEST/SILENCE button to stop a wake-up alarm. It will stop, but then the HL will start a manual test. When the manual-test fire alarm ends, the wake-up alarm will resume. Use the snooze bar or the alarm on/off button instead.

C. CLOCK LIGHT PANEL

1. Press the "SNOOZE/LIGHT" button to change the brightness level.
2. The display backlight has three levels of brightness (high, medium and off).
3. If AC power is lost, the backlight will be off. Press SNOOZE/LIGHT and the display will light for 5 seconds.

D. OPTIONAL BED SHAKER USE AND CARE

1. The Lifetone Bed Shaker may be placed under the mattress pad or the pillow.
2. It is water resistant but not waterproof. It may be cleaned periodically with soap and a damp cloth. Do not submerge the bed shaker in any liquid.
3. It has a thermal switch to turn it off if it gets too warm. It will reactivate after it cools down and continue to vibrate if the alarm is still active. Do not try to open it.
4. The bed shaker is electronically supervised. Do not use any other bed shaker with the Lifetone HL™. Doing so invalidates any Lifetone Technology™ warranties or claims.
5. If you disconnect the bed shaker, the clock will chirp every 5 seconds and display "beds". To stop the clock from chirping, press the red TEST/SILENCE button. The Lifetone HL™ will conduct a brief self-test but without the Smoke Alarm Setup Test, and then it will be reset to operate without the bed shaker.

VIII. REGULAR MAINTENANCE

A. BATTERIES

1. Replace the 4 D cell batteries once a year or more often if power outages occur, or a low-battery warning occurs.
2. Use 4 new D cell alkaline batteries and replace all batteries at the same time.

B. POWER ADAPTER

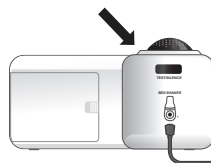
1. The Lifetone HL™ includes an AC power adapter. The red power light on the front should be lit at all times unless there is a power outage and the unit is operating on its back-up batteries.
2. No other power adapters should be used. Failure to use the Lifetone AC adapter could result in damage or incorrect operation of the Lifetone HL™.



IX. FREQUENTLY ASKED QUESTIONS

HOW DO I SILENCE THE EMERGENCY ALARM SIGNAL?

1. Press the red TEST/SILENCE button for 2 seconds.
2. If the Lifetone HL™ detects a smoke alarm again, the alarm will sound within 15 seconds.
3. If there is a nuisance alarm due to kitchen smoke, silence the smoke alarm first, and then the Lifetone HLAC.



WHAT HAPPENS IF I LOSE AC POWER?

1. In the left corner of the Display, an “ERROR” message and an AC power plug icon will flash. The red AC power indicator, located on the front left corner, will not be lit.
2. The clock will operate for a minimum of 7 days on battery backup and the emergency alarm will still be able to sound for at least 4 minutes.
3. The wakeup alarm will sound once at the proper time once during the first 24 hours without AC power. If the power outage lasts more than 24 hours and you wish to use the wake-up alarm again during that same extended outage, remove and reinsert the batteries, and conduct the set-up as described in section VI, Smoke Alarm Setup Test.
4. Normal operation, including the wakeup alarm, will resume when AC power is restored.



X. LIMITED WARRANTY

Lifetone Technology, Inc., (“Lifetone”) the maker of Lifetone brand products, warrants that for a period of two (2) years from the date of purchase, this product will be free from defects in material and workmanship. Lifetone, at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new or repaired product or component.

If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty.

A buyer of this product may have the right to have it serviced or repaired during the warranty period. The warranty period will be extended for the number of whole days that the product has been out of the buyer's hands for warranty repairs. If a defect exists within the warranty period, the warranty will not expire until the defect has been fixed. The warranty period will also be extended if the warranty repairs have not been performed due to delays caused by circumstances beyond the control of the buyer, or if the warranty repairs did not remedy the defect and the buyer notifies the manufacturer or seller of the failure of the repairs within 60 days after they were completed. If, after a reasonable number of attempts, the defect has not been fixed, the buyer may return this product for a replacement or a refund subject, in either case, to deduction of a reasonable charge for usage. This time extension does not affect the protections or remedies the buyer has under other laws.

This warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferable. Keep the original sales receipt. Proof of purchase is required to obtain warranty performance.

Lifetone dealers, service centers, retail stores and Internet purchase agents selling Lifetone products do not have the right to alter, modify or any way change the terms and conditions of this warranty. This warranty does not cover normal wear of parts or damage resulting from any of the following: negligent use or misuse of this product, use on improper voltage or current, use of rechargeable batteries, use contrary to the operating instructions, and disassembly, repair, or alteration by anyone other than Lifetone or an authorized service center.

Further, this warranty does not cover Acts of God, such as fire, flood, hurricanes and tornadoes or any batteries other than specified in this User's Manual.

This product is warranted to be specifically fit for the particular needs of you, the buyer. If the product is not specifically fit for your particular needs, it may be returned to the seller within 30 days of the date of actual receipt by you or completion of fitting by the seller, whichever occurs later. If you return the product, the seller will either adjust or replace the device or promptly refund the total amount paid. This warranty does not affect the protections and remedies you have under other laws.

Lifetone shall not be liable for any incidental or consequential damages caused by the breach of any express or implied warranty. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of the above warranty. Some states, provinces or jurisdictions do not allow the exclusive or limitation of incidental or consequential damages or limitation on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or province to province.

How to Obtain Warranty Service

If service is required, do not return the product to the original place of purchase. In order to obtain warranty service, please contact us at 1-800-648-7923 or email customerservice@lifetonesafety.com. To assist us in serving you, please have the model number and date of purchase available when calling.

Manufacturer:

Lifetone Technology, Inc.
800 Research Parkway, Suite 339
Oklahoma City, OK 73104

XI. RECOMMENDED LOCATIONS FOR SMOKE ALARMS

Make sure your existing smoke alarms are properly placed in your home. Your existing smoke alarms will reference and rely upon the National Fire Protection Association's (NFPA) Standard 72 regarding the number and placement of smoke alarms in your dwelling. This information is critical to determine whether you have the correct UL-certified and compliant T3 smoke alarms and that they are properly placed in your home.

The NFPA Standard 72 (August 17, 2006) and the California Fire Marshall's Code provides, in part, the following guidance about placement and detection of your existing smoke alarms:

"11.5.1.1 Required Detection. Where required by applicable laws, codes, or standards for a specific type of occupancy, approved single- and multiple-station smoke alarms shall be installed as follows:

- (1) In all sleeping rooms and guest rooms
- (2) Outside of each separate dwelling unit sleeping area, within 6.4 m (21 ft) of any door to a sleeping room, the distance measured along a path of travel
- (3) On every level of a dwelling unit, including basements
- (4) On every level of a residential board and care occupancy (small facility), including basements and excluding crawl spaces and unfinished attics.
- (5) In the living area(s) of a guest suite
- (6) In the living area(s) of a residential board and care occupancy (small facility)"

NFPA 72 at § 11.5.1.1 (2007 Ed.). - "A.11.4 Family Escape Plan. There often is very little time between the detection of a fire and the time it becomes deadly. This interval can be as little as 1 or 2 minutes. Thus, this Code requires detection means to give a family some advance warning of the development of conditions that become dangerous to life within a short period of time. Such warning, however, could be wasted unless the family has planned in advance for rapid exit from their residence. Therefore, in addition to the fire-warning equipment, this Code requires exit plan information to be furnished. Planning and practicing for fire conditions with a focus on rapid exit from the residence are important. Drills should be held so that all family members know the action to be taken. Each person should plan for the possibility that exit out of a bedroom window could be necessary. An exit out of the residence without the need to open a bedroom door is essential."

NFPA 72 at §A.11.4 (2007 Ed.). - "A.11.8.3 Are More Smoke Alarms Desirable? The required number of smoke alarms might not provide reliable early warning protection for those areas separated by a door from the areas protected by the required smoke alarms. For this reason, the use of additional smoke alarms for those areas for increased protection is recommended. The additional areas include the basement, bedrooms, dining room, furnace room, utility room, and hallways not protected by the required smoke alarms. The installation of smoke alarms in kitchens, attics (finished or unfinished), or garages is not normally recommended, because these locations occasionally experience conditions that can result in improper operation."

NFPA at § A.11.8.3 (2007 Ed.).- Also, the California State Fire Marshall's code recommends that: Early warning fire detection is best achieved by the installation of fire detection equipment in all rooms and areas of the household as follows: A smoke alarm installed in each separate sleeping area (in the vicinity of, but outside of, the bedrooms), and heat or smoke detectors in the living rooms, diningrooms, bedrooms, kitchens, hallways, attics, furnace rooms, closets, utility and storage rooms, basements, and attached garages.

Consult your state and municipal codes for additional recommendations and requirements for smoke alarm installation.