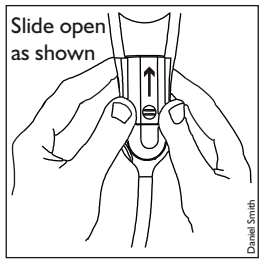
Getting Started

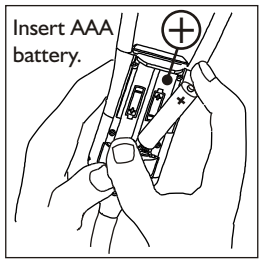
ATTENTION: Go to http://www.thinklabsmedical.com/ds32a for a detailed User's Manual and other information.

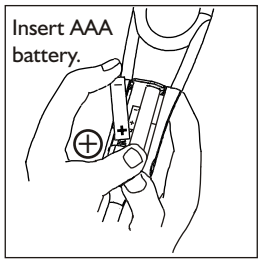
START

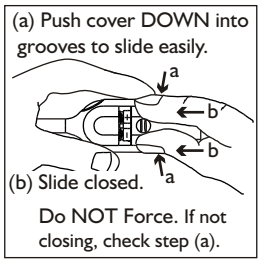
1 Install batteries.

NOTE POLARITY. Push springs to seat batteries properly. Align cover & close.

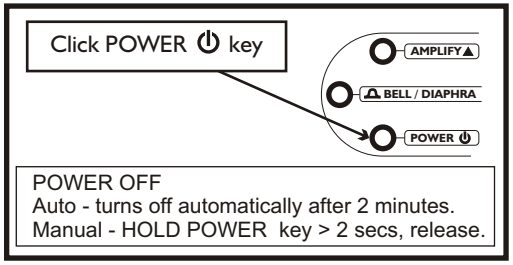








2 Power On

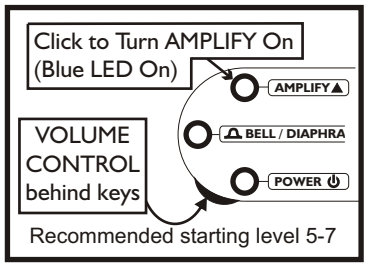


Rhythm :ds32a

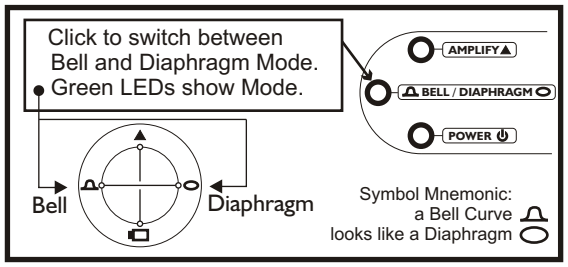
See Over for Quick Reference

USE

3 Adjust Volume (▲)

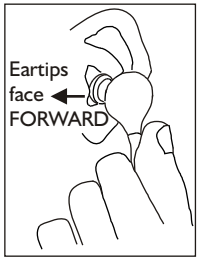


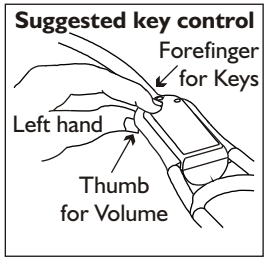
4 Select Mode - Bell or Diaphragm



LISTENING

5 Listening with the ds32

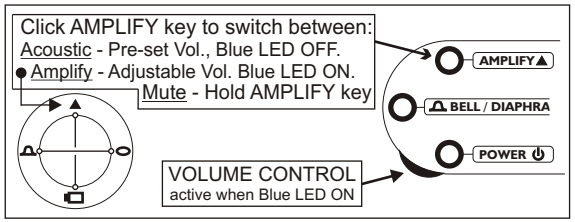




The EmD Diaphragm responds to adjustments in applied pressure, affecting both sensitivity (loudness) and frequency characteristics. This is a very powerful, tactile way to control sound. In most cases, simply apply a light but consistent pressure. Do not push too hard. Gradually increasing pressure will increase sensitivity and loudness. At significant pressure, low frequencies are cut, making breath sounds more audible than heart sounds.
It is sometimes helpful to hold the Probe so that the fingers also touch the patient chest wall (such as the left edge of the thumb and the fingertips in the above figure.) The Probe and chest wall then move in unison, for a consistent, light diaphragm pressure.

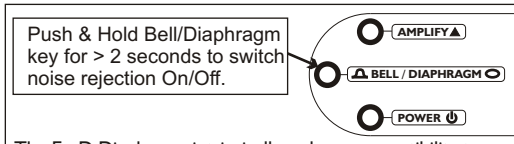
FEATURES

6 Acoustic, Amplify, Mute Modes



Acoustic Mode utilizes electronic signal processing to provide pre-set sound characteristics similar to a conventional acoustic stethoscope, but with enhanced signal quality.
Amplify Mode provides signal processing augmentation with power boost and Adjustable Volume.

7 Ambient Noise Rejection



The EmD Diaphragm intrinsically reduces susceptibility to ambient noise. In typical office environments with good diaphragm-skin contact, the noise rejection function will have little effect, and can be turned off to obtain the fullest possible dynamic sound from your ds32a.
In the following cases, turn Noise Rejection on to optimize sound:
- High ambient noise environments
- Listening through clothing or thick chest hair where good diaphragm-skin contact is not possible.

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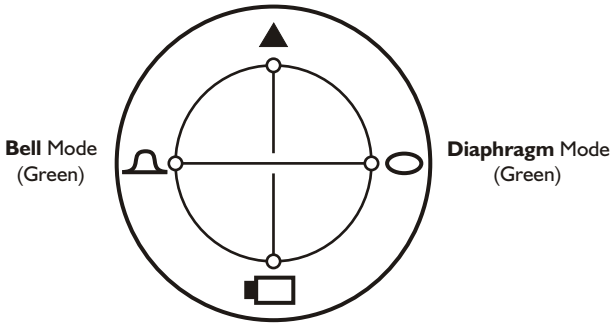
Quick Reference

See Over for Getting Started guide

Rhythm:ds32a

Display

Amplify Mode (Blue)
LED On - **Amplified -** Volume is Adjustable
LED Off - Acoustic **-** Volume is Pre-Set



Bell Mode (Green)

Diaphragm Mode (Green)

Low Battery (Red)
Change Batteries

Amplify - Amplification On/Off

Click to alternate between volume-adjustable Amplified mode and pre-set Acoustic mode similar to an acoustic stethoscope.

Mute

Push & Hold key down to temporarily Mute sound - useful if patients speak when listening to carotid, pediatric use, etc.

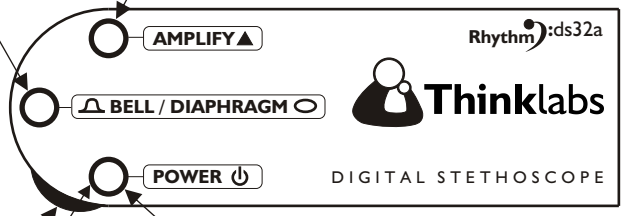
Bell or Diaphragm Select

Click to alternate Bell/Diaphragm

Noise Rejection On/Off

Push & Hold for >2 secs, Release to turn Noise Rejection On/Off. Adjusts for high ambient noise or regular office environments.

Control Panel



Volume Control

behind Control Panel
(active when Blue LED▲ is On)

Power On Click to turn on

Power Off (auto or manual)
Shuts off automatically after 2 minutes*
OR Push & Hold until all LEDs light, Release
* time is programmable up to 5 minutes

Advanced Use - Preset and Save all your power-on Mode preferences

Program the ds32a to power up in most recent Modes, or in your preset configuration.
Recent Mode wakeup - Push+Hold Power key 5 secs, Red LED flashes slowly, Release.
Preset Modes - (1) Set ds32a in your preferred modes. (ALL Modes are memorized).
(2) Set auto shutoff time - **Click** the Power key the number of minutes ds32a should stay on before auto shutoff (2, 3, 4, or 5 minutes).
(3) Push+Hold Power key >10 secs, Red LED flashes faster, Release.

Tips and Troubleshooting

Tips for Best Sound Quality

- Apply Probe with light, steady contact, not excessive pressure. (Step 5, See Over).
- The ds32a works best with direct skin contact. Avoid using through clothing.
- Experiment to find a preferred Volume level that optimizes clarity.
- Go to the website and READ the detailed User's Manual and other information. The Manual contain USEFUL TIPS for obtaining best results.

Troubleshooting

- No Power: (a) Check batteries are inserted correctly. (Step 1, See Over).
  (b) Batteries need replacing.
- No Sound: (a) Increase Volume setting.
  (b) Check headphone fit (See Over).
- Unexpected interference sounds:
  (a) Radio station or electromagnetic pickup: Change position/location.
  (b) Continuous Buzzing: Diaphragm loose - tighten Diaphragm Ring.
  (c) Other noises: Possible dust, lint or moisture inside Probe -
  Turn off device. In dust-free environment, unscrew Diaphragm ring.
  Wipe inside surface of diaphragm and sensor with an *alcohol swab*.
  Do not touch brass sensor plate or diaphragm with fingers.
  Allow to dry/evaporate naturally, then close unit.
- Problem unsolved? Contact Thinklabs. See Over for contact information.

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http://www.thinklabsmedical.com/ds32a for detailed User's Manual and other information.

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