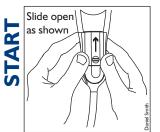
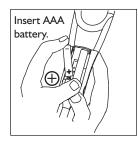
Getting Started

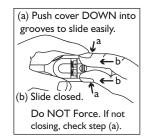
Attention: See Reference CD-ROM for complete User's Manual

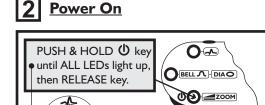
Install batteries. NOTE POLARITY. Push springs to seat batteries properly. Align cover & close.











POWER OFF

Device turns off after 120 secs

or HOLD (1) > LEDs > RELEASE

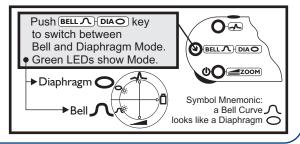
Rhythm):ds32 See Over for **Ouick** Reference

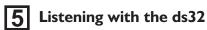
Adjust Volume

VOLUME \bigcirc CONTROL behind keys

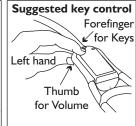


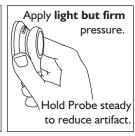




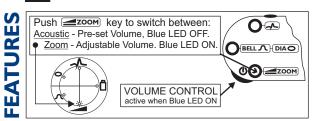






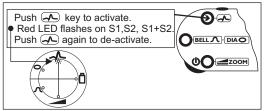


6 **Acoustic Mode -** for non-augmented sound. **Sync -** SI / S2 LED for cardiac cycle timing.



Acoustic Mode utilizes electronic signal processing to provide pre-set sound characteristics similar to a conventional acoustic stethoscope, but with enhanced signal quality.

Zoom Mode provides signal processing augmentation with power boost and Adjustable Volume to "zoom in" on details.



Sync - Probe location influences detection as follows:

- Mitral/Apex SI usually detected over S2.
- Tricuspid S1 / S2 / Both possible.
- Other areas SI usually detected over S2.

See CD User's Manual for details on the use of Sync.

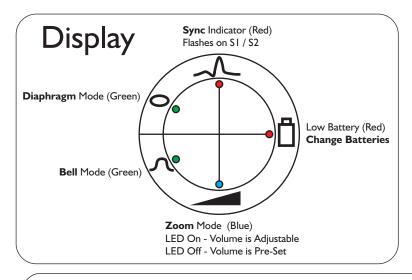
The EmD Diaphragm detects signals in the sub-sonic frequency range, to reproduce guiet low-frequency heart murmurs. Patient chest wall motion, or unsteady examiner hand motion, can induce large-amplitude subsonic vibrations. This can overload the detector and produce signal artifact or cutout. It is then helpful to hold the Probe so that the fingers holding the Probe 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, with a consistent, light diaphragm pressure.

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Quick Reference See Over for Getting Started guide





Select Bell or Diaphragm Green LEDs show selection

Volume Control

behind Control Panel

Sync Indicator LED - SI/S2 Cardiac Timing Push key to activate/deactivate (See Over and CD-ROM for details)

Control Panel

Rhythm):ds32

BELL A DIAO ZOOM

HIGH RESOLUTION

Think labs

Tips and Troubleshooting

Tips for Best Sound Quality

- Apply Probe with light, steady contact, not excessive pressure. (Step 5, See Over).
- The ds32 works best with direct skin contact. Avoid using through clothing.
- Experiment to find a preferred Volume level that optimizes clarity.
- Load the Reference CD into a computer and READ the User's Manual. The Manual contain USEFUL TIPS for obtaining best results.

Troubleshooting

- No Power: (a) Check batteries are inserted correctly. (Step I, 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.

Power On

(active when Blue LED is On)

Push + Hold until all LEDs light then Release

Power Off

Shuts off after 120 seconds OR Push+Hold until all LEDs light then Release

Zoom - Select Pre-Set or Adjustable Volume

Push key to alternate between augmented Zoom mode and pre-set non-augmented Acoustic modes:

Mode Blue LED Function

Zoom ON Augmented ADJUSTABLE Volume

to "zoom in" by increasing Volume.

Acoustic OFF non-augmented PRE-SET Volume

similar to acoustic stethoscope.

See Reference CD-ROM for complete User's Manual

