DHRUVA NANO Zx SUR PETI / SRUTI BOX

The Dhruva Nano Zx produces a continuous drone sound similar to the bellows type sur peti / sruti box used in earlier days. It is very simple to operate and is the ideal choice for beginners. It produces 3 notes, Shadj /Shadjam represented by SA, Pancham / Panchamam represented by PA and Taar Shadj or Taara sthayi shadjam represented by ṠA. It has an accurate built-in pitch-pipe reference (A=440hz) with a digital display of pitch. The sur/ sruti/ pitch can be varied from lower octave A (mandara sthayi / mandra saptak) to higher octave C (taara sthayi / taar saptak).

Operating Instructions:

Insert the power cord provided with the product, into the socket at the rear of the product. Plug the power cord into a standard wall outlet.
Caution: 1. Provide a gap of at least 10 seconds between switching OFF and ON the product.
2. Avoid using the products close to other electronic equipment such as mobile / cordless phones, pagers etc.
The instrument has the following controls:
1. Volume control (VOL ▲ or ▼ button)
2. Mode selector (MODE) / Memory selector (MEMORY)
3. Pitch up or down button (PITCH ▲ or ▼ button)
4. Digital pitch display
5. Metronome button (MET) / Game button (GAME)

Switch ON the instrument by pressing 'POWER' button. The instrument will now provide a pitch stored earlier in memory. SA, PA and higher ṠA are perfectly and automatically tuned.

Volume: To increase or decrease the volume, press the ▲ or ▼ buttons. To mute, press the and ▲ and ▼ buttons together (simultaneously). To resume the sound, again press the and ▲ and ▼ buttons together (simultaneously).

Pitch Selection: Press the ▲ or ▼ button to select the pitch. Each time you press, the pitch will change by a half note and the same will be displayed on the digital display. Half notes (# notes) are indicated by a dot after the pitch in the display like C**.** or D**.** etc. The display is shown as per the Western scale. The reference for the Indian systems of music can be seen on a chart at the bottom (underside) of the instrument.

Mode: To go to different operating modes, press 'MODE' button:
1. Normal Mode - All notes ON - SA, PA and ṠA (LED glows for the PA mode)
2. Fine tuning mode - Only SA on (described above)
3. SA and ṠA
4. SA, MA and ṠA (LED glows for the MA mode)
5. Game (Display shows 'P')

Fine Tuning: To fine-tune the pitch that is slightly higher or lower than the standard pitch settings provided, press the MODE button once. Only the SA note can be heard. Press the ▲ or ▼ buttons to fine tune the pitch as desired in small steps. Press the MODE button four times to return to normal mode.

Memory: New ASDM technology: **A**utomatic **S**ave, **D**ual **M**emory system is installed in the latest model of the Dhruva NANO Zx. This means that when the instrument is switched ON, whichever pitch is selected will be automatically saved in memory 10 seconds after the last button-press. If the pitch is changed and the in:trument remains ON, then after another 10 seconds this new pitch will get saved automatically in memory. Every time the instrument is switched ON, the automatically saved pitch will be recalled.
In addition, the user can save any pitch of his/her choice and save it separately in memory by pressing ▲ (STORE) and MEMORY(MODE) buttons simultaneously (together). The stored pitch can be recalled at any time by pressing ▼ (RECALL) and MEMORY (MODE) buttons simultaneously (together). Thus 2 sets of memories are available in the Dhruva NANO Zx.

Metronome facility: A metronome is provided in addition to the sruti. To select the metronome, press MET button. In this mode, pressing the ▲ or ▼ button will not change the pitch, it will change the tempo (speed) of the metronome. Short presses of the ▲ or ▼ buttons will change the tempo in fine (small) steps. To change the tempo in larger steps, keep the ▲ or ▼ button pressed for a longer time. To switch off the metronome, press the MET button again.

Perfect Pitch Game: Perfect Pitch is a feature to test and train tuning skills. It can be used as a musical game for entertainment. Thus it serves a dual purpose.Press MODE button repeatedly till 'P' is displayed and no sound is heard. This is the 'Perfect Pitch' mode. To test your skill, start the game by pressing the 'MET' button. Now 2 notes can be heard. One is the reference pitch, which is randomly selected every time a new game is selected and the other one is the note to be aligned with the reference pitch. Align and tune the other note by pressing the PITCH ▲ or ▼ button (the pitch will change in large steps, if the buttons are kept pressed continuously and pitch will change in small/ fine steps, if pressed step by step).

Tune till it exactly matches the same note as the fixed note. To test, press the 'MET' button. If the note is perfectly matched, the display will show 'G' (for 'good') and a happy tune will play. If it is near or less than perfect, the relevant grade that you have scored, will show as '9' or '8' etc. If the note is completely mis-aligned or out of tune, it will show '0' and a sad tune will play. The game can be played any number of times.

Operation on Battery: The instrument operates on a set of six 'AA" size batteries. Fit these into the battery compartment according to the correct polarity. On failure of mains power, the instrument will automatically switch over to battery power.