VIOLET3D - APP NOTE 3

Violet-Qb3 Wireless Subwoofer Specifications and Setup Procedure

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Qb3 Subwoofer Specifications

Qb3 is a compact, active sub woofer integrated with a powerful 200 watt (R.M.S) class D amplifier. Qb3 is a passive radiator enclosure design with two passive radiators and an active driver.

Learning is the most important feature of VIOLET3D which decides the output from the entire system. The manual controls on Qb3 have to be set properly while learning for best performance.

Violet Qb3 Backpanel Settings

Diagram: Back panel of Violet3D –Qb3

Volume Control

It is used to control the gain of the amplifier.

Note:

It should be kept at 50% during learning process.

Crossover Frequency Control

Cross over circuit is used to filter the frequencies. In Qb3 subwoofer we have a cross over control from 50Hz to 200Hz. For example if you keep it in 160Hz all frequency above 160Hz will be attenuated.

Note:
It should be kept at "200 Hz" during learning process.

Phase Control

Phase control allows the listener to change the arrival time of the subwoofer sound waves relative to the same frequencies of the speakers (i.e., at and around the crossover point to the subwoofer).
When the cone of your speakers and the subwoofer's cone move in and out in sync with each other, the system is said to be *in phase*.
The alternative--when the speakers and subwoofer are moving out of sync with each other--produces *uneven sound* in the sonic range.
The sub and speaker's bass overlap and cancels each other out. Produces the audible effect of a system that's *out of phase* is less bass.

Note:
Phase control knob has to be kept at *"0" degree* (minimum) while learning.

Stand-by Control

To reduce power consumption VIOLET has given a stand-by feature to Qb3. If you keep the knob in "*Force On*" then the subwoofer will take power continuously even though audio is not present. If you keep in "*Audio Detect*" only when audio is fed into the subwoofer it consumes power.

Note:
Stand-by control knob should be in "*Force On*" position while system is in learning process.

Line Input

Qb3 can be used as a wired subwoofer with any pre amps. You can feed in stereo audio into it through RCA/Coaxial cable.

Line Output

Qb3 has a pre amp output which can be fed in to another power amplifier so that it can drive speakers. It can be also used to give a wired connection to another Qb3 sub woofer.

Voltage Selection Switch

Qb3 has a voltage selection option between 110 volts and 230 volts making it compatible in the global market.

Power Switch

Power switch is provided for the turn on/off process, which will be indicated by the blue LED on the top of the same panel.

Qb3 Learning Procedure

Before starting the process of learning, Qb3 has to be kept at the below default settings-

- The Volume Knob must be kept at 50% (Half).
- The Phase Knob must be kept at 0 degree (Minimum).
- Crossover Frequency Knob must be kept at 200Hz (Maximum).
- Set Stand-by Knob to "Force On" for learning. (Turned Up).

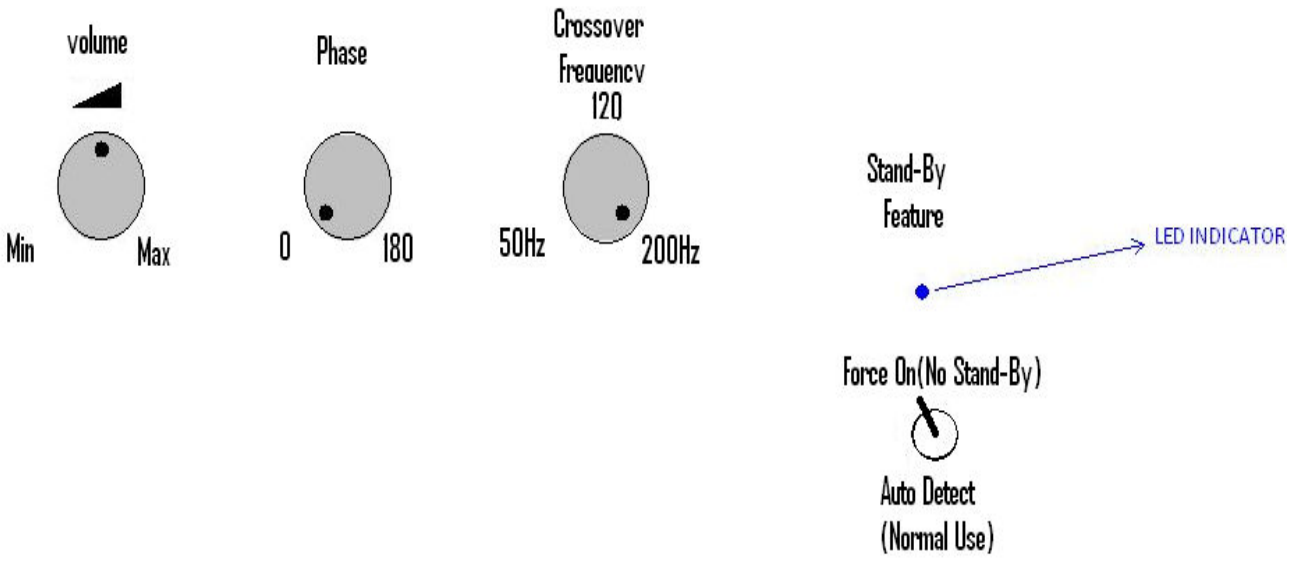

Diagram: Back panel settings for Violet3D –Qb3 while learning

Technical Specifications

System sensitivity :	80db(20mv@1m)
System Frequency Range :	30Hz to 220Hz @-9db
Inputs :	L+R RCA Line in
Outputs :	L+R RCA Line out
Lf Driver :	1 * 6.25” NBR long throw
Passive Radiator :	2 * 6.25” NBR long throw
Amplifier Type :	Class-D
Amplifier Power :	200Watt(R.M.S)
Phase Control :	Yes
Power Indicator :	Yes, Blue LED
Crossover Frequency :	50-200 Hz
Cabinet Size :	210*210*210 mm
Weight:	5Kg
Magnetically Shielded :	No
Color :	Black Graphite Vinyl Wrap