

Noisecube Noisecube Plus



Firmware Revision 2.3

Table of Contents

Overview	4
System Start Up	5
Select Sound Type	5
Select Noise Type	6
Play Settings	7
Play Settings (with 1dB steps)	8
Play Progress	9
Select Warble Tone	10
Select Animal Sound	11
Select Music Sound	12
Battery Monitor and Charging	13
Specification	14
Speaker	14
Additional Specification	15
Additional sounds (subject to change)	15

Overview

The **Noisecube** is a stand-alone speaker which is powered by an internal battery or via an external power supply. On the rear of the speaker is a small touch screen which allows the user to quickly select the type, level and duration of the sound required.

The unit will deliver a constant noise at levels between 30dB(a) and 75dB(a) measured at 75cm from the front face of the speaker. The duration of noise playback can be set from a range of 1 to 15 minutes, and the noise can be stopped at any time by touching the screen during playback.

There are 4 noise samples to choose from. These are Wide Band Noise, Narrow Band Noise, Adult Babble Noise and Child Babble Noise.

When using this device alongside a **Parrotplus** system, please remember to select *Speech in Quiet* on the **Parrotplus**. The required noise can then be selected on the **Noisecube**.

The **Noisecube Plus** adds additional sounds such as Warble Tones, Animal Sounds and Songs. These are all accessible through the user interface screens.

System Start Up

Using the power switch, turn the speaker on and wait for it to perform a quick system check during which it reports the firmware version on the startup screen.

If you have a basic **Noisecube**, the system will then display the *Select Noise Type* screen. The **Noisecube Plus** will display the *Select Sound Type* screen

Select Sound Type

(Noisecube Plus)

This is the master screen for the **Noisecube Plus**. Select the sound type by touching the screen with your finger, or the stylus. The screen will then immediately update with your chosen sound type options.



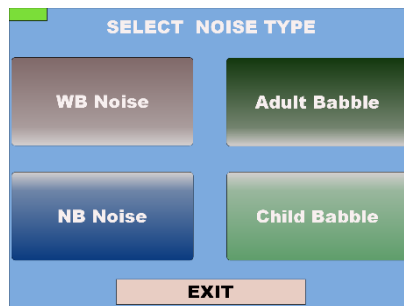
Select Noise Type

(Noisecube and Noisecube Plus)

Use this screen to select the type of noise required. 4 types are available. These are:

1. Wide Band Noise
2. Narrow Band Noise
3. Adult Babble Noise
4. Child Babble Noise

Use your finger or the supplied stylus to touch the button for the required noise type.



Once the noise type is selected, the screen will update so the user can choose the [Play Settings](#).

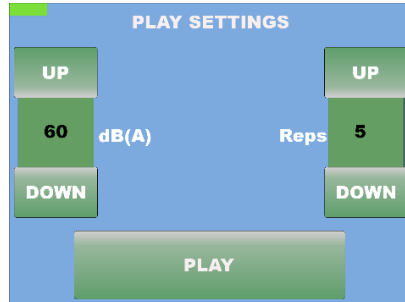
Play Settings

(Noisecube and Noisecube Plus)

This screen allows the user to adjust the sound output. Using the **UP** and **DOWN** buttons the user can adjust the output level between 30dB(a) and 75dB(a) in 5 dB steps. The sound level is measured 75cm from the front face of the speaker.

The user can also set the maximum time the sound will continue if left unattended. The range is between 1 minute and 15 minutes for noises, or 1 to 15 repeats for other sounds.

Once these parameters are set, press the PLAY button and the previously selected sound will begin and the screen will update to the *Play Progress* screen.



With a noise type selected, you can now perform a speech test in a constant and calibrated noise field.

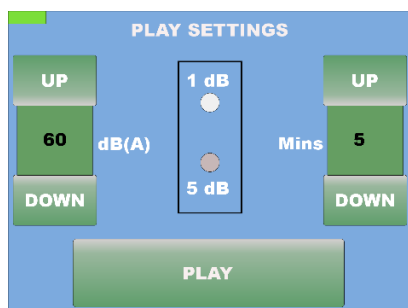
Play Settings (with 1dB steps)

(Noisecube and Noisecube Plus)

There is an alternative play screen enabled on some units which allows closer control of the output level. A pair of radio buttons allows the user to select either 1dB or 5dB steps.

Note: if you change from 1dB to 5dB steps, the unit will round the output level up to the nearest 5dB setting.

Once these parameters are set, press the **PLAY** button and the selected sound will begin, and the screen will update to the *Play Progress* screen.



With a noise type selected, you can now perform a speech test in a constant and calibrated noise field.

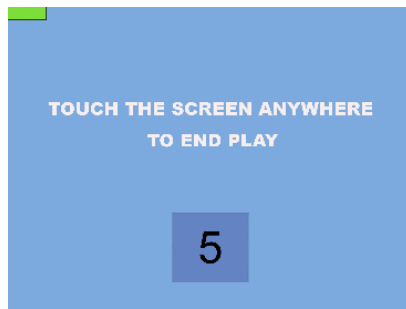
Play Progress

(Noisecube and Noisecube Plus)

Once you have pressed play, the sound will continue for the duration set on the *Play Settings* screen.

The duration indicator on this screen will display the number of minutes, or the number of repeats left of the play settings. This will update as play progresses.

If you wish to stop the sound before completion, simply touch the screen anywhere and the output will stop.



For the **Noisecube**, ending **PLAY** will return you to the *Select Noise* screen.

For the **Noisecube Plus**, ending Play will return you to whichever *Select Sound Type* screen you were using prior to **PLAY**

Select Warble Tone

(Noisecube Plus)

Use this screen to select the Warble Tone required. There are 6 Warble sounds available and each can be played by selecting it with your finger or the supplied stylus.

1. 250Hz
2. 500 Hz
3. 1000 Hz
4. 2000 Hz
5. 4000 Hz
6. 5000 Hz



Once the Warble Tone has been selected, the screen will update so the user can choose *the Play Settings* screen.

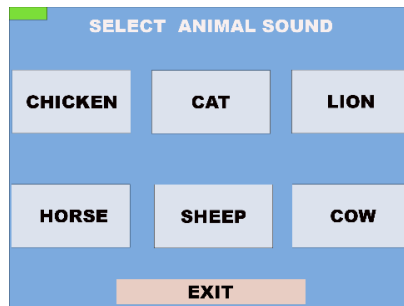
Pressing **Exit** will return to the *Select Sound Type* screen.

Select Animal Sound

(Noisecube Plus)

Use this screen to select the animal sound required. There are 6 animal sounds available and each can be played by selecting it with your finger or the supplied stylus.

1. Chicken (cock a doodle doo)
2. Cat (Meow)
3. Lion (Roar)
4. Horse (Neigh)
5. Sheep (Baa)
6. Cow (Moo)



Once the animal sound has been selected, the screen will update to the [Play Settings](#) screen.

Pressing **Exit** will return to the [Select Sound Type](#) screen.

Select Music Sound

(Noisecube Plus)

Use this screen to select the Song required. There are 6 songs available and each can be played in turn by selecting it with your finger or the supplied stylus.

Song 1: Ten in a bed

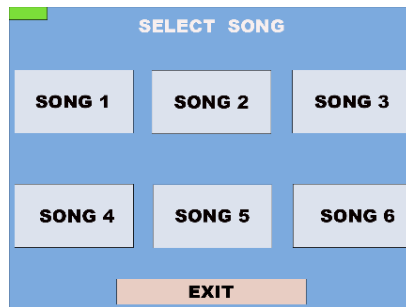
Song 2: Wheels on the bus

Song 3: Down at the station

Song 4: Heads and shoulders

Song 5: Happy and you know it

Song 6: Row Row Row your boat

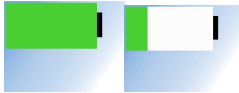


Once the song has been selected, the screen will update so the [Play Settings](#) screen.

pressing **Exit** will return to the [Select Sound Type](#) screen.

Battery Monitor and Charging

In the top left corner of the screen is a battery monitor. This will display 4 segments representing the battery charge. If only 1 segment is displayed, you should either recharge the battery or run the system from the charger cable.



100 % charge and low battery indication

Please only charge the unit using the charger and cable provided. Note: the system will operate when running from the charger whilst at the same time charging the battery. The battery will also charge with the power cable connected and the unit switched OFF.



Battery charging



Running from charger

Specification

(Noisecube and Noisecube Plus)

Speaker

Size	127mm x 120mm x 130mm (WxDxH)
Weight	1000 g
Battery	3.7v 2000mAh Lithium polymer battery. Rechargeable through the USB connector at the back of the speaker.
Driver Unit	1 x 10cm dual cone driver
Frequency Range	95 - 22000 Hz (-10dB)
Display	60 x 45mm. 320 x 240 pixels. Colour display with resistive touchscreen.
Noises	Wide Band Noise Narrow Band noise Adult Babble Classroom Babble
Output range	30 – 75 dB(A) @ 75cms in 5dB steps
Accuracy	2dB
Duration	1 minute to 15 minutes in 1-minute steps. Noise can be stopped by the user at any time during the set interval

Additional Specification

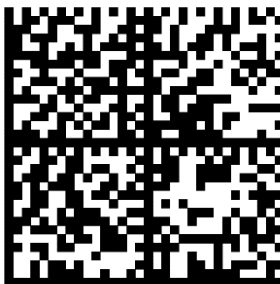
(Noisecube Plus)

Additional sounds (subject to change)

Warble Tones	250Hz, 500 Hz, 1000 Hz, 2000 Hz, 4000 Hz, 5000 Hz Modulation depth 10% Modulation Frequency 10 Hz
Animal Sounds	<ol style="list-style-type: none">1. Chicken (cock a doodle doo)2. Cat (Meow)3. Lion (Roar)4. Horse (Neigh)5. Sheep (Baa)6. Cow (Moo)
Songs	Song 1: Ten in a bed Song 2: Wheels on the bus Song 3: Down at the station Song 4: Heads and shoulders Song 5: Happy and you know it Song 6: Row Row Row your boat



Please take a look at our web site for details of our other products.



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