

# Parrotplus speech-in-noise testers.



## The Parrotplus, Parrotplus2 and ParrotplusFM speech-in-noise testers

### Introduction

The Parrotplus was introduced in 2010 as a replacement for our original Parrot device which only produced speech in quiet. It utilises many of the design features of the original Parrot system to produce a lightweight, easy to use portable system, but offers much greater flexibility to the testing regime with a range of noises and additional tests.

We can now supply three different configurations of Parrotplus system. It is always possible to upgrade from one system to another after purchase. We can also add additional tests after purchase if required.

Parrotplus	Parrotplus2	ParrotplusFM
This is the base system with a single speaker used for both the speech and noise output.	The Parrotplus2 adds a second speaker connected to the main speaker with a 5m cable. This allows the user to position the noise output behind or to the side when testing.	The ParrotplusFM is a new addition to the Parrotplus family. The second speaker is replaced by a Noisecube which offers continuous noise and can be positioned anywhere within the test room. This is beneficial when testing assisted listening devices with noise filtering capabilities. The ParrotplusFM also comes with a microphone holder and a pair of floor stands for the speakers.

## Description

The Parrotplus can have all of the available tests on a single handset.

	Test	Age	Description
Sounds	Ling 6	2+	6 sounds that cover the frequency range of all phonemes
Toy Tests*	McCormick Toy Test	Over 2 years	14 paired words of toys
	English as an Additional Language Toy Test	Over 3 years	14 paired words, some overlap with McCormick toys
Picture Tests	Manchester Picture Test	4-6	6 lists of 6 words shown in a picture book
	Chear Consonant Confusion Test**	4+	10 lists of 4 words shown in picture book.
	Chear Auditory Performance Test**	6+	10 lists of 4 words shown in picture book.
Word Lists	Manchester Junior Word List	6+	8 lists of 10 words
	Arthur Boothroyd Short Word List	6+	8 lists of 10 words (2, 5, 6, 8, 11, 13, 14, 15)
Sentence Tests	Bamford-Kowal-Bench Sentence Tests	8+	Can be used on adults
*Also available on request in Slovak and Polish (using the toys from the English list, so not phonetically paired, but useful for verification of hearing aids etc). ** Chear tests only have female voice and wideband noise.			

Most tests can be performed in silence or in a choice of background noises (wideband, adult babble and child babble). When purchasing your Parrotplus, a minimum of three tests must be selected for inclusion, and additional tests can be easily added either with the initial order, or at a later date.

The Parrotplus is fully menu driven allowing the user to easily select the test options - male or female voice, background noise, automatic or manual presentation, fixed or random carrier phrase etc. There are also specific keys for changing the speech presentation and noise presentation levels (in 5dB steps).

The complete system is housed in a soft carry case for easy transportation. In use, the Parrotplus can either run off its own internal rechargeable battery, or from the mains adapter supplied.

## Operation

The Parrotplus is very simple to set up. Simply connect the handset to the speaker using the cable.



Connect the other end of the grey wire into the back of the speaker. Position the speaker 75cms from the test subject. This distance is shown between two markers on the lead. At that distance the noise and speech will be produced at the level shown on the handset. A calibration option can ensure that the levels produced are as expected.



Follow the menu on the handset to select a test and perform the test. The test is performed manually, so you have to press a button to select the noise and speech level required and make a record of the results on a scoresheet.

If required (say if the child loses interest), the levels of noise and speech levels can be increased or decreased at any point in the test.



## Parrotplus specification

<b>Handset</b>	
Sampling frequency	41kHz
Speech memory	1GB TransFlash
Accuracy	2dB
Coding method	PCM/MP3
Range	Speech 30 - 75dB(A) in 5dB steps Background noise 30 - 75dB(A) in 5dB steps (and off)
Calibration noise	Wideband noise (60dB)
Keypad	Custom made 8 key tactile membrane keypad
Display	LCD 128x64 pixels. White on Blue with LED backlight

<b>Main Speaker</b>	
Dimensions	127mm x 120mm x 130mm (WxDxH)
Power source	6v 1.2Ah long life SLA battery
Driver units	1 x 10cm dual cone driver
Frequency response	95 - 22000 Hz (-10dB)

<b>Additional Speaker for Parrotplus2</b>	
Dimensions	127mm x 120mm x 130mm (WxDxH)
Driver units	1 x 10cm dual cone driver
Frequency response	95 - 22000 Hz (-10dB)

\*Noisecube speaker specification can be found on a separate product sheet.

<b>Battery Charger</b>	
Charging voltage	Bulk charge Float charge LED indicators for bulk, float and fault conditions
Charging current	300mA max

<b>Carry Case</b>	
Overall dimensions	415cm x 290cm x 170cm
Overall weight	3kg not including test materials
Contents	Custom made nylon carry case with zipped main compartment and external pocket for booklets and score cards. Main compartment contains machined high-density foam with cut outs for handset and battery charger, with dividers for the speaker and toy box.