# MultiBit Vision Test

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Introduction

MultiBit is a vision test whereby subjects identify digits using either an iPhone or an iPod touch (hereinafter referred to as the ‘pod’). Both iPhones and pods must be equipped with Retina display.

MultiBit is intended solely for self-checks, not for diagnostic use.
Handling the pod

The pod should be connected to the charger when not in use.

Connect the charger at the bottom of the pod.
Handling the pod

Sound volume and headphones

The pod has integrated speakers. The sound volume can be adjusted.

Increase

Lower

Headphones can also be used. These are connected via the bottom of the pod.

Headphone connection point

Integrated speakers
Handling the pod

Brightness

The screen brightness can be adjusted via the control panel. The control panel is opened by swiping a finger upwards from the lower edge of the screen. Adjust the brightness by dragging the UPPER white dot sideways. Leave the control panel by tapping the home button once.
Handling the pod

Turning the pod on

Keep pressing the On/Off button until the Apple logo appears on the screen.

Turning the pod off

Keep pressing the On/Off button until switch off is shown. Now swipe your finger across this button, from left to right.
Handling the pod

This image will be shown a few seconds after starting the pod.

Swipe your fingers across the screen from left to right  

Unlock
Preparing the MultiBit VisionTest

- Disconnect the charger
- Block out distracting sounds
- Make sure the test space is completely dark
- Make sure that the pod is connected to the Internet
- Seat yourself comfortably, leaning backwards slightly
- All tests should be performed under the same circumstances and at the same time of day.
- Now tap the MultiBit symbol
Preparing the MultiBit Vision Test
Logging in

These images will normally not be shown as the care provider handles this.

In order to log in you need to be connected to the Internet. Enter the user ID that your received from your Care provider. Click Done and then Login.
Preparation the MultiBit Vision Test
Logging in

These images will normally not be shown. The care provider handles this process.

You will be notified if you enter an incorrect ID. Try again. The following image will be shown if there is no Internet connection. You will not be able to log in until you have reconnected to the Internet.
Preparing the MultiBit Vision Test

Tap then

- Wipe screen clean
- Hold with both hands at right angle to the line of sight
Preparing the MultiBit Vision Test

Now tap

• Make sure that the test space is completely dark
  • Use reading glasses
  • Cover one eye

Back  Continue
Preparing the MultiBit Vision Test

One eye is tested at a time. Cover the eye not being tested by placing a piece of opaque film on the corresponding lens of the reading glasses. Those who do not use reading glasses can use a black patch (available from pharmacies).
Test digit demo

The test is preceded by a demonstration of the test digits

A couple of digits will now **flash up** on various parts of the screen very briefly. You will hear a clicking sound when the digits are shown.

The test shows 3 series of 8 pairs of digits, with a pause between each series.

The task is to dictate the digits shown.

End the demo by tapping

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**MultiBit Vision Test**
MultiBit Vision Test

• Read out the digits in a clear voice
  • In the event of an error: tap the screen to re-start
  • Preparing series 1 (of 3)
The first series containing 8 digit pairs will now be displayed. The following new images will be shown once the last pair has been displayed. Tap
The second 8-pair series of digits is now being shown. The following new images will be shown once the final pair has been displayed.

Tap

Preparing final series
MultiBit Vision Test

The test is finished

Switch the light on.

Done! The lights may now be turned on.
Now, compare the test digits with the recorded answers. Tap Hit or Miss button for each digit. Then tap Continue.

Tap
Look at the first digit. If the digit you recorded is the same as the one shown on screen, tap **Hit**. If not, tap **Miss**. Repeat the process for the second digit. Then tap **Continue**.

Continue until all test digits have been displayed.
Once you have finished the digit review the following image will be displayed.

Tap the box corresponding to the eye that was tested and then save the result.
MultiBit Vision Test

The test results are now being shown. Tap [Save result]

If you are connected to the Internet the results will now be sent to your care provider. If you would like to keep the results for your own use you need to make a note of them yourself.

Eye

Left  Right

Result: 81%

Menu  [Save result]
The result has been saved. If you are connected to the Internet, the result will be saved at the clinic and cannot be viewed on the pod. If you are not connected to the Internet, the result will remain saved on the pod until you connect.
Displaying the MultiBit results

The sole purpose of the button Disable is to sever MultiBit’s contact with the care provider. Click this button ONLY if you wish to discontinue MultiBit testing permanently.

Example of what the archive looks like when there is no Internet connection and the results have been sent to the clinic

Example of what the archive looks like when there is an Internet connection and the results have been sent to the clinic
Under this **Information** tab you will find a description of MultiBit's scientific basis and support information (the pod must be connected to the Internet in order for these pages to be displayed)
Information about MultiBit

More in-depth information about the test principle can be found on the Internet at the following address:
http://www.oft.gu.se/webdiagnos/Multibit/Multibit.html
Care instructions

• *Do not expose the pod to moisture.* The pod is very sensitive to moisture. Clean the screen as required using a lightly dampened cloth.

• Because the pod is operated by pointing, you cannot operate it using a finger that is covered by a band-aid, gauze bandage or any other type of covering.

• Keep the pod charged at all times by leaving it connected to the charger when not in use.

• Never expose the pod to impact or knocks. The pod will normally cease to work if the front glass breaks.
Troubleshooting

One common error is ending up on the wrong pod page number and being unable to find the MultiBit app. This problem can often be resolved by tapping the 'home' button once or several times. If this does not work, try rebooting the pod. I.e switch it off and back on again.

If the screen is black the pod is probably out of battery. It takes about 10 minutes for the screen to light up once the pod has been connected to the charger.

If the pod fails to respond when pointing/swiping, the reason may be an unclean screen or damp fingers.

Further fixes to potential problems can be found on multibit.biz (requires a network connection).
Felsökning

Ett vanligt fel är att man hamnat på fel sidnummer i podden och inte finner MultiBit-applikationen. Genom att trycka på hemknappen en eller flera gånger löser man oftast detta problem. Fungerar inte detta så kan man göra en omstart av podden, dvs stäng av och sätt på densamma.

Om skärmén är helt svart beror det oftast på att podden inte är laddad. Även om man då sätter podden i laddaren tar det ca 10 minuter innan skärmén lyser upp igen.

Om inget händer då man pekar/sveper över skärmén kan det bero på smutsig skärm eller på fuktiga fingrar.

Vanliga frågor besvaras under fliken Information/Support i podden.

Ytterligare svar på möjliga fel kan återfinnas på www.multibit.biz (kräver Nätuppkoppling).

Vid övriga problem kontakta din behandlande klinik.
Support and contact

We recommend that you contact your clinic if you have any problems.

The clinic can be reached by telephone on
DECLARATION OF CONFORMITY

NUMBER, NAME AND CLASS OF THE DEVICE
MultiBit Vision Test
Class I

INTENDED USE
A test intended for monitoring function of the central retina

VALID
From June 11, 2014

MANUFACTURER
Visumetrics AB, Gothenburg, Sweden

We the undersigned hereby declare that the medical devices specified above conform with, and meet the provisions stated in Annex V of the MDD93/42/EEC (LVFS 2003:11) as amended in 2007/47/EG (LVFS 2011:13)

This declaration is supported by a Quality System as stated in Annex V of MDD93/42/EEC

Gothenburg, June 11, 2014

Bo Frisén
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