

## The Yehuda Detector user manual

The main use of the detector is to detect **lab grown Melee** (small size diamonds) mounted in jewelry and in large parcels.

**99% of Melee lab grown diamonds in the world will be detected by this detector!**

**According to GIA - every month over 200,000 carats of HPHT lab grow Melee are produced worldwide.**

This detector will detect them and protect you!

The detector will detect any HPHT lab grown diamonds at any size.

**There is a confusion in the industry as people tend to call all lab grown diamonds by the name of **CVD**.**

However, there are 2 methods to grow diamonds **CVD and HPHT**.

99% of melee diamonds are grown by the HPHT method which is detected by this detector.

In larger sizes – you will find both **HPHT and CVD** grown diamonds.

Usually the HPHT lab grown diamonds will have D and E colors where CVD grown diamonds will mostly be in the F-K color range.

HPHT is also a name of a method that converts **type 2a natural diamonds** from brown color to white color. – It has nothing to do with the method of growing diamonds by HPHT system and this machine will not detect them as they are natural diamonds.

This detector will detect and mark **HPHT grown diamonds in the white ( D- K) color family.**

It will not detect other lab grown **colored** diamonds.

The diamonds can be tested loose, in a bag or mounted.

They cannot be tested if covered by a thick plastic or glass!!!!!!

To date - any known HPHT lab grown diamonds that we tested were found to be Lab grown.

We strongly recommend that you visit our website [www.yehuda.com](http://www.yehuda.com) and watch the video of how to work with the detector.

At our website you will also find this user manual for future reference.

## **Overview:**

The detector uses a cellular phone.

The only use of this phone is to work with the detector.

Please do not try to use this phone for any other use.

At any time, if the phone freezes – please restart the phone.

If at any time you receive the following message: “Application is requesting permission to turn on Bluetooth. Allow?”

Please press the “yes” answer.

Using or trying to use the phone for any other purpose will result in loss of the warranty and we will not repair the detector.

Opening the screws or trying to open the detector body will also result in warranty loss and refusal to fix the detector.

The detector bears a full 1 year full warranty under normal use.

It is not covered for water damages, being hit, dropped or any non-regular use.

It is also not covered if there was an attempt to open the detector as it is protected with stickers that will be torn if the detector is opened.

Parts:

With the box you will find the following.

HPHT detector.

A charger.

A tray.

A ring holder.

1 HPHT grown diamond in a bag.

Operation:

The charger can work at any Voltage environment (100V-240V) but you need to connect the correct nozzle.

First press the ON/OFF button at the **back** of the detector.

The green led should light up to indicate that the detector is ON.

Then press the cell phone ON/OFF button on the **side** of the phone.

At the end of the day please shut off the detector and the phone.

If the back button is not pressed – the phone will indicate that it cannot connect to the Bluetooth.

Please make sure you can see the green light at the back of the detector.

When the phone starts – it will show an upside down home screen.

Please slide your finger on the screen and the screen will flip.

Press “YES” to allow the Bluetooth to connect.

On the home screen you will only see 3 or 4 icons.

The 4<sup>th</sup> icon will appear every 7 days.

1. History
2. Test
3. Settings. (Please do not try using the settings. It is password protected and for our technician use only.)
4. Red clock (***Every 7 days you will have a reminder clock icon***)

If the red clock appears on the screen - press on this icon and insert into the drawer the bag with the **sample HPHT lab grown diamond that you have received with the detector.**

Press the EYE icon to test.

Press the LOOSE DIAMOND icon to perform a test.

You will get the result and the sample diamond will be colored in red.

This will show that the detector is working correctly.

It is recommended to check the sample diamond every day.

In any event – every 7 days- the detector will remind you to do that by showing the red clock icon.

When you see it - press on it and perform the test on the sample.

You can use our sample diamond or any other sample that you have that you know for a fact is an actual HPHT grown diamond.

**ALWAYS MAKE SURE THAT THE DRAWER IS SHUT PROPERLY!!!!!!**

If the drawer is not fully shut you will get a yellow warning triangle on the top right and a message:

“Warning!

Please close the drawer!

Ok”

Press the OK and shut the drawer. The yellow triangle may remain until you press “Test”.

If the drawer was shut, then the next time you press the “Test” button it will disappear.

If the drawer is not shut correctly you will get the message again.

If you are sure that the drawer was shut but keeps getting the message and you get another message "Connection to the device is lost"

-Make sure that the detector is on and the green light at the back is on, go to the home screen and the Bluetooth will reconnect itself.

Then try the test.

If from some reason the drawer is fully shut but you still cannot perform the test – it is a result of the Bluetooth being disconnected.

Please go to the home screen and it will automatically connect to the Bluetooth.

Now you can start performing tests with the detector.

You can test mounted diamond jewelry, loose diamonds and loose diamonds in a plastic bag.

**DO NOT TEST DIAMONDS IN A PLASTIC BOX (THE BLUE BOX) OR COVERED WITH A THICK PLASTIC OR GLASS.**

The safest way to test loose diamonds is uncovered in a tray.

It is usually ok to test them in a plastic bag if the bag is very thin.

In any event – the detector detects only diamonds that it can SEE.

If a diamond is covered by another diamond - it will not be tested.

The same goes for jewelry - only diamonds facing the screen will be tested.

If you test a ring or any other jewelry make sure to test it a few times from all angles.

Insert the specimen into the center of the drawer.

You can tap on the screen in order to see the specimen on the screen.

When you insert jewelry into the drawer you need to press the RING icon in order to perform the test.

When you insert loose diamonds into the drawer – you need to press the LOOSE DIAMOND icon in order to perform the test.

When we test jewelry the detector is set to be more sensitive.

This is the reason that you may see small red dots around the jewelry.

Please ignore them.

When you get the result of either modes (loose or jewelry) you can see a picture of the tested diamonds/jewelry.

Any diamond colored in red is a HPHT Lab grown diamond.

If no diamond is colored red – then your specimen does not contain HPHT lab grown diamonds.

It may contain natural diamonds, CVD grown diamonds, CZ or any other gem stone.

Please remember that this detector will positively identify only HPHT LAB GROWN DIAMONDS.

At the end of the test you can press any of the 3 headers on top of the picture.

You can press “ORIGINAL PICTURE” to see the original picture without any red markings.

You can press “GLOWING PICTURE” where you can see the diamonds shine in blue.

And you can press the “RESULT” header to see the result again.

You can go back and forth between the 3 positions.

To save the results press the MEMORY CARD icon.

To continue to another test press the arrow.

At the end of the test you can save the results by pressing the MEMORY CARD icon.

You can always press the HOME button to go back to the main screen in order to see saved results.

To see saved results press the HISTORY icon in the main home screen.

The pictures are stored in the order they were taken.

Use the arrows to go back and forth between the saved pictures.

Or you can slide the top bar with your finger.

Press the “i” icon and you will get a split screen.

The upper part contains original picture and the lower part contains a picture with the HPHT diamond glowing.

Tap twice on the picture and you can enlarge and move the picture.

Press the arrow to go back.

You cannot send pictures from the detector.

If you wish to send pictures please use your own cell phone and take a picture from the screen.

If the memory is full or whenever you wish, you can delete a picture by pressing DELETE.

## **Troubleshooting:**

Most of the problems may arise from the phone itself.

1. **For any problem** – First make sure that the electric cord is fully inserted at the back of the detector and the green light at the back is ON.
2. **The screen goes black** – press lightly on the ON/OFF button of the phone and swipe the screen.
3. **The time appears on the screen with “how is the weather”** – swipe the screen **from bottom** to top.
4. **The phone freezes**- press a long press the ON/OFF button and restart the phone.
5. **The phone freezes and pressing the ON/OFF button does not help**- In this situation there is no choice but to drain the battery. Disconnect the detector and wait until the battery is drained. It may take a few hours until you can start the phone again.  
After the battery is drained reconnect the electricity and make sure that the green light at the back of the detector is ON. This will charge the phone and a few minutes later you can press the ON button on the side of the phone to start it.

6. **The detector keeps showing the "close the drawer" message, even though the drawer is closed-** Make sure the green light at the back is on. Press the HOME button. The detector will reconnect to the Bluetooth and you can continue to work.