

The DiaTrue Mobile User Manual



Power of OGI SYSTEMS Ltd.

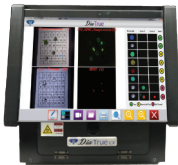
Other detectors modelsof OGI Systems



DiaTrue Mobile



DiaTrue CS



DiaTrue CX



DiaTrue CXL



Galileo



Artium



DiaTrue Jumbo

We have few models of detector under two platform operating systems. WINDOWS and ANDORID.

Diatrue CS, CX, CXL, Jumbo working under windows.
Galileo, Mobile, Artium working under android (cell phone).

Diatrue - www.diatrue.com
Galileo - www.Galileotester.com
Artium - www.Artiumtester.com

Introduction

The **Diatrue Mobile** detector detects lab grown Diamonds, mounted in Jewelry, as single stones, in large parcels and any size Melee.

The main purpose of the device is to detect **CVD** and **HPHT** lab grown diamonds, but it can be also used to detect diamond simulants - CZ and Moissanite, diamond coated CZ and Moissanite.

The **Diatrue Mobile** detector is designed to detect only white diamonds within D- K colors but we have few models that can detect even lower from K. We suggest lower color diamonds, fancy color diamonds, or any other gemstones should not be tested to avoid mistakes.

If in any case they are tested, keep in mind that the result will be misleading and false.

For accurate testing, we prefer that you not use plastic bags.

To update your device to the latest software/app visit the website of your specific device.

www.diatrue.com
www.galileotester.com
www.artiumtester.com

Diatrue Mobile package include

Diatrue Mobile device

Matrix Stone Tray

Loose Stone Tray

Rings/ Earrings / Jewelry Tray

360 Ring holder

360 Earring holder

User manual book

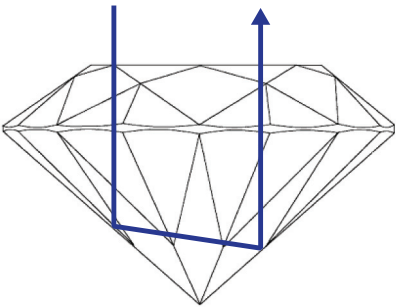
Warranty card

Power supply

AC power cable

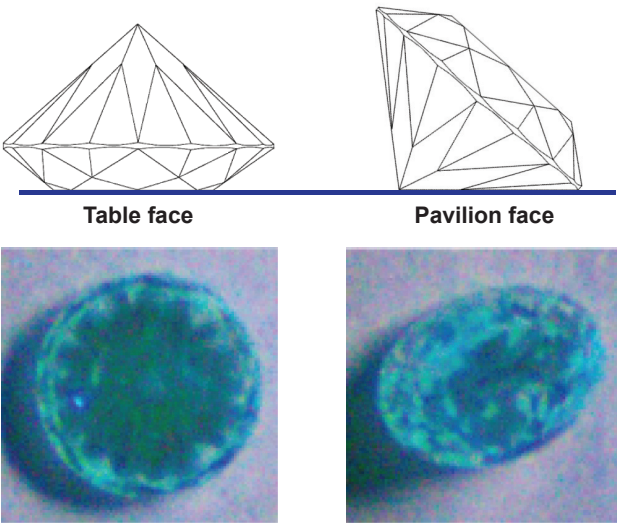
Checking diamonds

The way how the effect of the light on diamond.

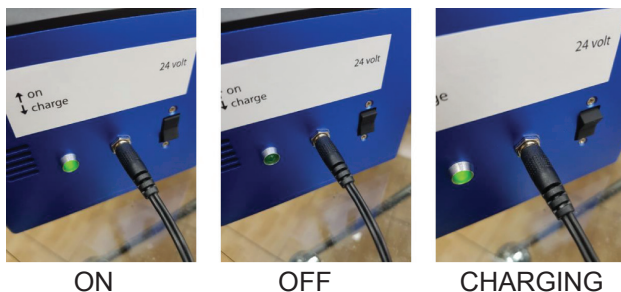


The light of the **Diatrue Mobile** camera comes from the top for testing loose diamonds we recommend to position the stone on the **pavilion side**.

Example Pavilion face.



Operation



The charger can work in any voltage environment (100V-240V) output is 24 Volt.

But each device has personal power supply and different input voltage.

(Please don't use other power supply)

(User can purchase a rechargeable battery)

The charger must be connected when working with the detector.

Back button has 3 options. ON-OFF-CHARGING

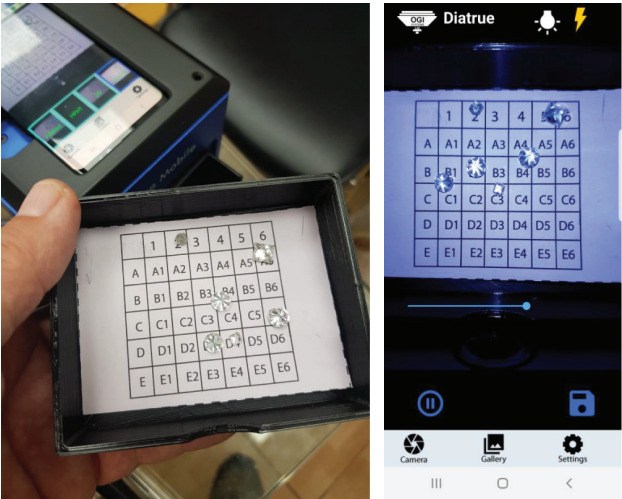
Option 1 is ON - push the button up.

Option 2 is OFF - push the button to the middle stage.

Option 3 is CHARGING - push the button down.

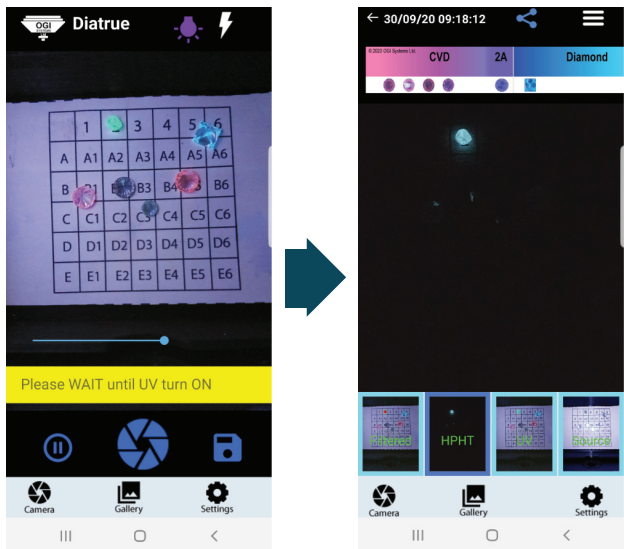
To start please press ON and the light indicator turn on too.

How Diatrue Mobile work



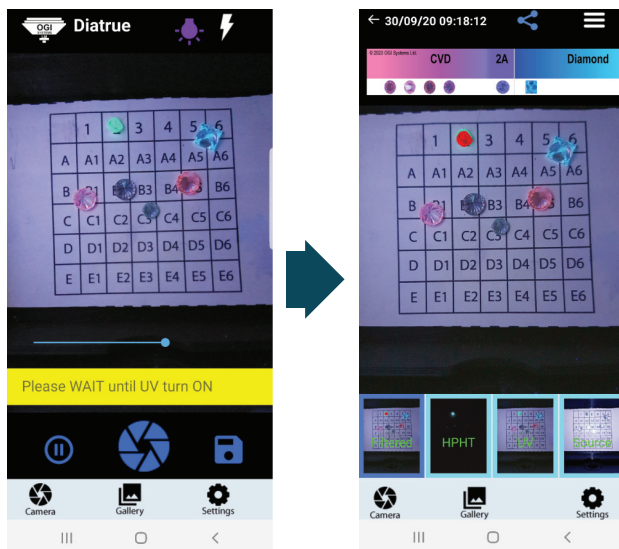
Open the drawer and put the stones in the tray.
You will see them in regular light mode.

Fast mode checking





Click on **UV** lamp and wait until the UV come ON (it can take a few seconds). For a fast result, if you click again on UV lamp then the UV come OFF and all phosphoresces stones come highlight (This option is good to see if parcel has HPHT lab grown stones) but we recommend always to do a full scan.

Auto full scan



Click on UV lamp 

and wait when it turn ON .

Press on the  and full scan process starting.

At the end of the full scan process you will get the result and 4 small windows.

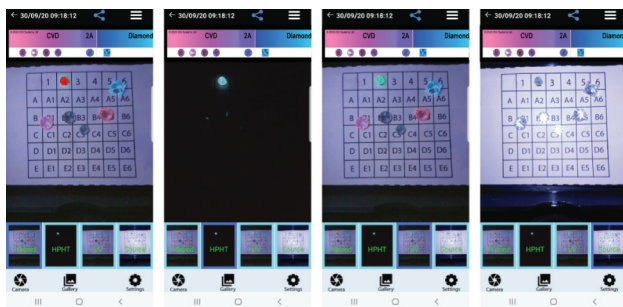
Filtered - window show the HPHT lab grown in **RED** color.

HPHT - window can see only the HPHT lab grown stone.

UV - window will see the UV results only.


Source - window will see the original white light.

Diatrue Mobile package include

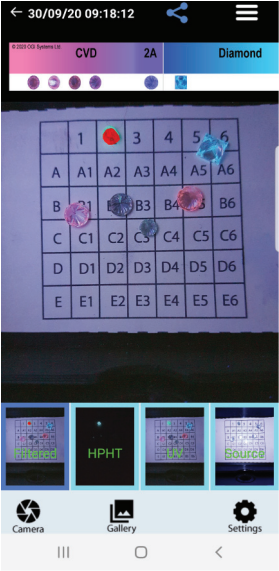





Press on any window it will come large on the screen.
Every scan will be automatically saved in the gallery.

Press on CAMERA to start the process again

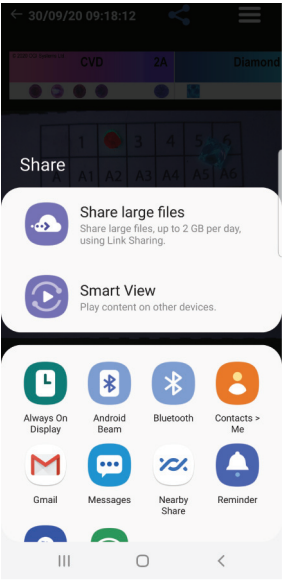
Press on CAPTURE , it saves a print screen of
the opened large screen in your gallery.

Sharing, Reference, Menu




On top screen you have  (sharing),
 stones reference feature and  (menu)

Sharing, Reference, Menu



With **SHARE** feature you can send the report or any results by E-mail or print to WIFI printer.


Color Reference Help

 **Diatrue Report**

Stones: 1

Weight: 0.0 ct

30/09/2020











Diamond

CVD

HPHT


CZ/ Moissanite






Comments:

EDIT

 Gallery



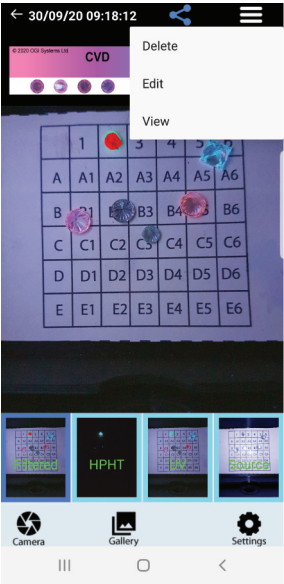
III

□

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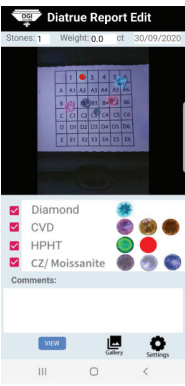
Click on  icon you will get color **reference help**.

What MENU includes

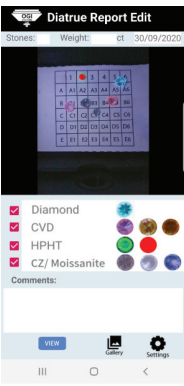


With this menu you are able to edit or delete a report.

EDIT Result



Edit stones quantity and total weight.



Click VIEW to get the final report.



Can share the report or print it.

Gallery

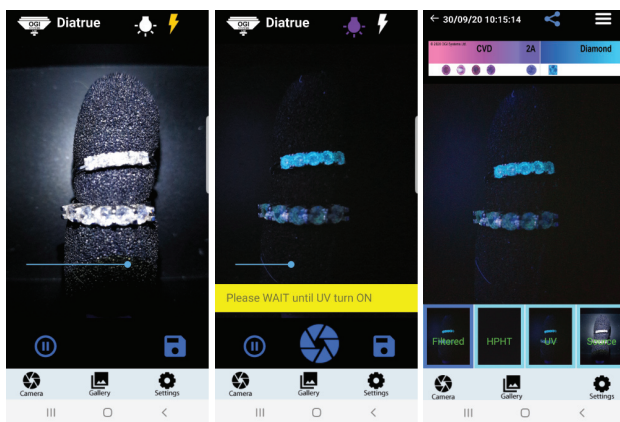


View can load the result to the main screen.
Select and click on the results that you want to delete and then click the *trash icon*.

How to scan RINGS



Diatrue mobile has feature to able to scan 360 around the rings. Please insert the ring holder to the correct place and close the drawer.



Fast mode

Fast mode

Auto scan

Scanning rings is the same way as scanning stones.

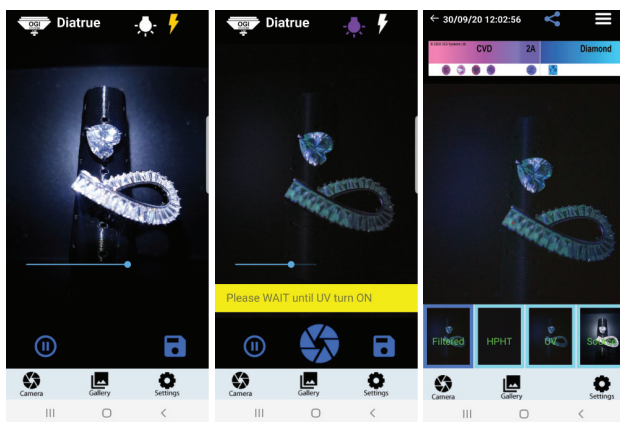
Fast mode – Turn ON the UV lamp and rotate slowly the rings holder 360 degree to see in many angles view.

Auto Scan – In any positions you can click auto scan to get 4 small windows like stones scanning process.

How to scan EARRINGS



Diatrue mobile has feature to able to scan 360 around the earrings. Please insert the earring holder to the correct place and close the drawer.



Fast mode

Fast mode


Auto scan

Scanning earrings is the same way as scanning stones.

Fast mode – Turn ON the UV lamp and rotate slowly the earrings holder 360 degree to see in many angles view.


Auto Scan – In any positions you can click auto scan to get 4 small windows like stones scanning process.

Setting



Diatrue Settings

Device Model: SM-G950F
Device Name: Galaxy S8

Max.UV Time [minutes]:

1

2

3

☒ Use USB Light (not Camera Flash)

Hide ADMIN Params

☒ Set Reversed Portrait Orientation


☐ Use Gem Colors DB


Image Zoom
Min.(0.2 .. 1.0): and Max
(2.0 .. 10.0):


Click Blue Settings Icon below for the next ADMIN Page

SAVE

Diatrue version 5.73

Camera

Gallery

Settings

|||

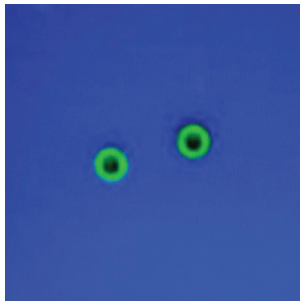
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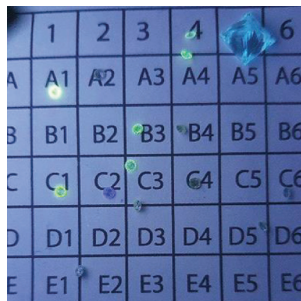
User can control how many minutes the UV needs to be on when he uses real time mode.

Natural diamonds example results

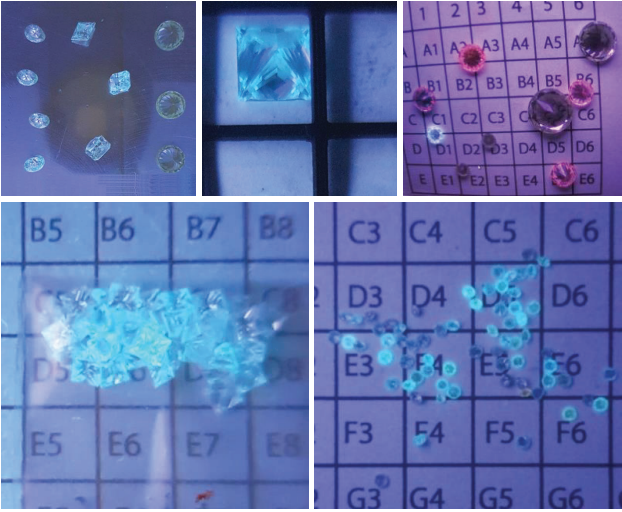
Any diamond that shines ONLY blue or light blue colors mean it's natural.
some diamonds were the clarity (black carbon inside diamond) is very bad like SI2, cleavage, coated or with brown touch color it can mix with green color but for this kind of color need to make more testing.



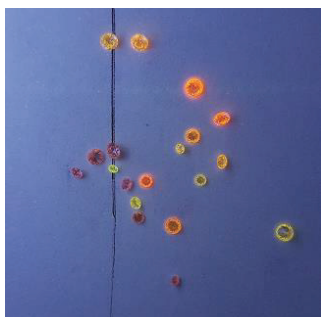
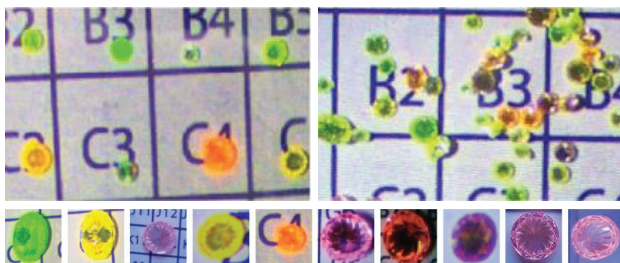
Device detect D to K but some stones lower than K or lower clarity or irregular internal material then it come green color in circle edge.



A1 if reduce the light it can see very clearly like C1.



LAB GROWN diamonds result examples



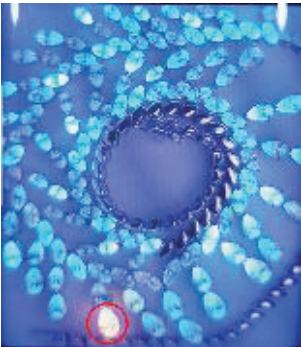
Diamonds SIMULANTS example results



Jewelery example results



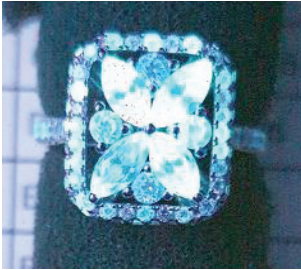
CZ



Try to reduce the light to get a correct color and if the stone is not blue then send the stone to the lab.

CZ

How to scan RINGS



Diamonds setting



Red is **HPHT** lab grown



Big stone is **CVD**



CVD



Big stone is **CVD**

This picture show how important it is to able to rotate the ring to expose the ring to UV light in few different angles.

Disclaimer, exclusions, and limitation of liability

Please read and read the terms and conditions of OGI Systems' warranty.

OGI Systems Warranty for Subject to Proper Use by Its Users.

In accordance with all the terms and conditions as stated in the relevant user guide.

Due to the continued improvement of the product, OGI Systems reserves the right to change all documents including the right to make changes to the user manual without prior notice and without obligation to notify any person of such corrections or changes.

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The OGI detectors like models CS, CX, CXL, Jumbo, Mobile, Artium, Galileo are not a substitute for gemological laboratory analysis but can provide a convenient and quick method of detecting synthetic diamonds. Inaccurate results may be caused by new synthetic diamonds created in new technology, or many inclusions inside stones or other errors. OGI detectors results should be treated as informational only and the results are provided "as is", with no guarantee of completeness or accuracy.

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Troubleshooting:



ON



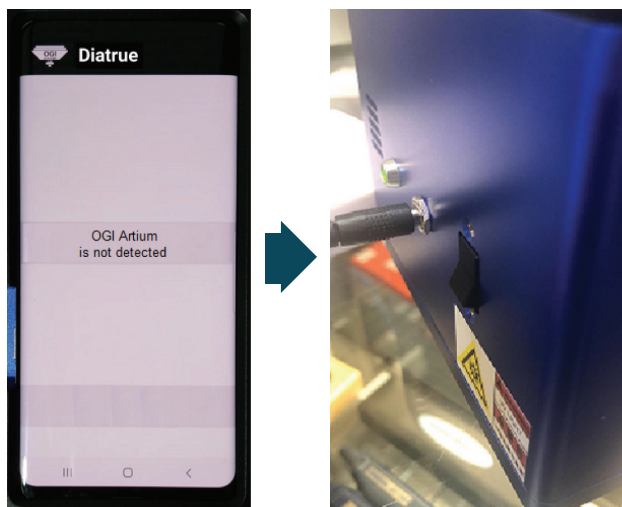
OFF



CHARGING

3 options of the back button

How to scan RINGS



Make sure the button ON for regular operation.

Button down for charging the cell phone.

Warranty:

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

It does not cover water damages, being hit, dropped or any other.

The machine has protective warranty stickers.

Opening or tampering with any of the screws or trying to open the detector body will also result in a loss in warranty.

For further information, please log-on to:
www.artiumtester.com

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