

DIACAM 360

Clear Results From Every Angle

User Manual



360° Diamond scanner

www.DiaCam360.com

Patent pending no. U.S.62/090,383

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Hello,

Congratulations on the purchase of the **DiaCam360** - a device for making high quality photographs as well as unique innovative and interactive 360° movies of diamonds. We are glad that you have chosen to join our customers who benefit from this unique device.

The **DiaCam360** photographic device you have chosen, manufactured by **Shirtal DiaCam Ltd.**, affiliated to **Shirtal Diamonds Ltd.**, is the result of two years of development, combining technology and a unique patent, highly appreciated all over the world.

The unique combination between ease of operation, speed and size of the device, ensures a high quality experience while photographing diamonds, much like a professional studio without having any prior knowledge or technical skills.

We are confident the device will fit right on your desktop and provide you with a new photographic experience and a way to allow your customers to "interact" with your diamond, thus increasing confidence in their purchase.

In order to fully enjoy your new **DiaCam360**, all you have to do is to place the desired diamond you want to shoot, close the lid and push the button. We shall do all the rest.

For any questions or concerns - we are here for you.


With kind regards,
Shirtal DiaCam Ltd.


www.Diacam360.com



Shirtal DiaCam Ltd reserves the right to make changes and updates in this manual without prior notice. You may not reproduce any part of this manual, in any way whatsoever, without the prior approval of the Company.

An updated online version of this guide as well as training videos can be found on the Shirtal DiaCam Ltd's website, under: www.DiaCam360.com/Support

All important user safety instructions are marked mark with an 

 This device is equipped with safety devices. In order to prevent accidents or damage, you must read all the notes for using the device according to instructions given in this manual. Keep this guide in a safe place for future reference. In any case the **DiaCam360** is transferred to another user, transfer the user's manual as well, together with the device, to the new owner.

In case static lines or any other objects appears in the final photos, use the supplied Ferrite beads, one on the interconnection cable and one on the AC mains cable.



Ferrite bead (with 2 turns) on AC mains cable




Ferrite bead (with 2 turns) on interconnection cable



This product is compatible with the European Union Directive EC/2002/96



Marking device or its packaging with:  Indicates that the disposal of this product is not suitable for household waste, you must ensure the proper disposal of this device according to relevant law in relation to the disposal of electronic equipment. The correct disposal of the device will prevent the possibility of adverse effects on the environment.

For more detailed information about the disposal and recycling options for this device, please contact your local municipality, your local waste service or the dealer you purchased the product from.

Technical Specifications

120 - 240 V, 3A

50 / 60 Hz

Fuse: F250 V, 2A



Intended Use

The **DiaCam360** Is designed for photography of Round polished and Fancy shaped diamonds up to 20 carats.

- The device is equipped with various holding tips, for holding the diamonds on the Girdle, suitable for all types of diamond polishing, various shapes and sizes.
- Instruction on replacing these attachments can be found in Chapter 8.

Safety Instructions



Electrical Hazards

- In order to prevent electrical shock, keep the device, plug and power cord away from water.
- Plug the device into a grounded electrical outlet. The rated voltage must correspond to the values specified in the technical data.
- The device is sensitive to static electricity. The device must be grounded in order to avoid the termination of the scanning. In case the scanning was terminated due to static electricity, restart the program or click again on Scan in the software menu.
- Do not use the device, in any case the appliance itself, its power cord or plug have been damaged, or after the device has been dropped.
- Do not make any changes on the device or its power cord. Only **Shirtal DiaCam Ltd** is permitted to repair the device in order to prevent any danger as a result of faulty repair works.



Always unplug the power cord from the wall outlet, in case :

- Of a malfunction .
- After the device has not been used over a long period of time .



Never pull the cord in order to disconnect the plug from the wall outlet.

CAUTION

Shirtal DiaCam Ltd shall have no liability for any damage caused by:

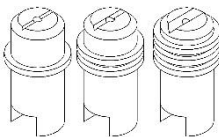
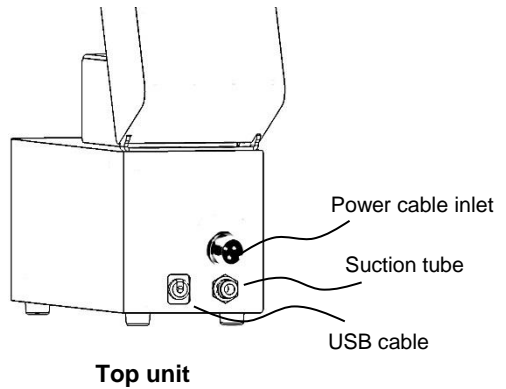
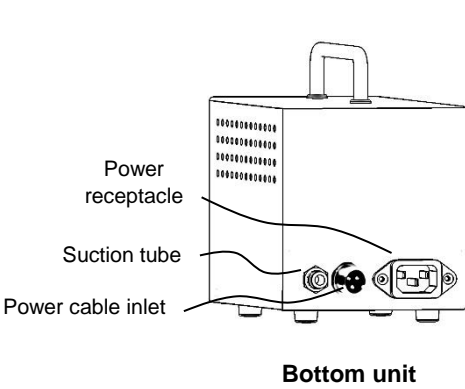
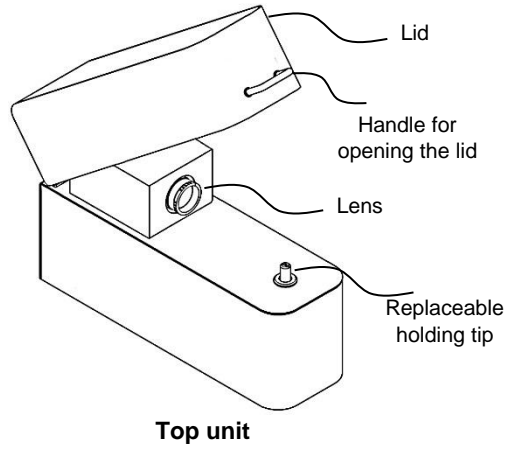
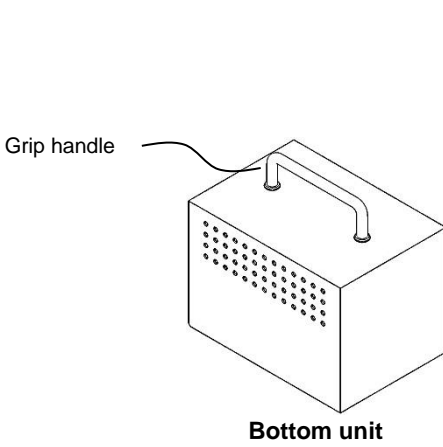
- Operating not in accordance with the user instructions provided in this manual.
- Repair and/or attempt to repair the device, by anyone other than **Shirtal DiaCam Ltd**.
- Damage or impairment of the power cord.
- Damage, change or impairment to any component of the device.
- Using spare parts and components that are not original and/or not provided by **Shirtal DiaCam Ltd**.

In such cases, the warranty will be null and void.

The device meets the safety, power and international radiation standards (EMC & Safety):

- CFR 47 FCC – Class A
- EN 55022 Class A
- EN 61000-3-2
- EN 61000-3-3
- EN 55024
- IEC 60950-1:2005 + A1:2009 + A2:2013
- EN 60950-1:2006 + A11:2009 + A1:2010
- + A12:2011 + A2:2013

Components



Preliminary preparations

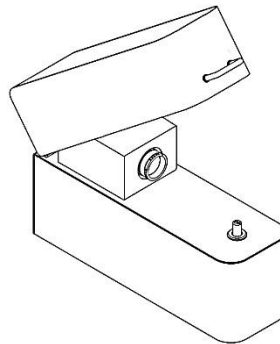
1. Unpacking

After removing the device from the packaging inspect the device for its integrity. In case of any doubt, do not use the device and immediately contact our customer service.

2. Device Assembly

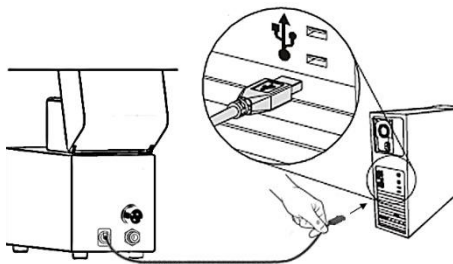
Essential and safety components of the device have been already assembled at the factory. Some minor components of the device may be supplied separately packed. Assemble these components according to assembly instructions included in this manual.

- 2.1. Place the Top unit of the device on your desktop or any other flat surface near your computer.

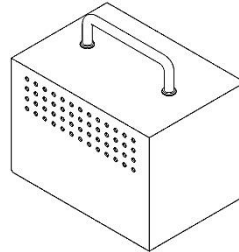


Top unit

- 2.2. Connect the end of the USB cable to an available USB inlet on your computer.

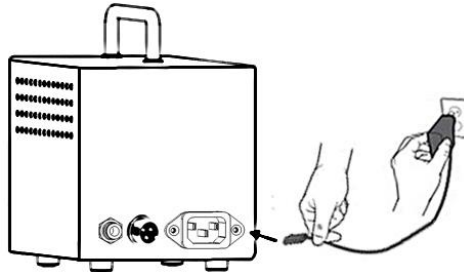


- 2.3. Place the Bottom unit of the device under your desktop on the floor.

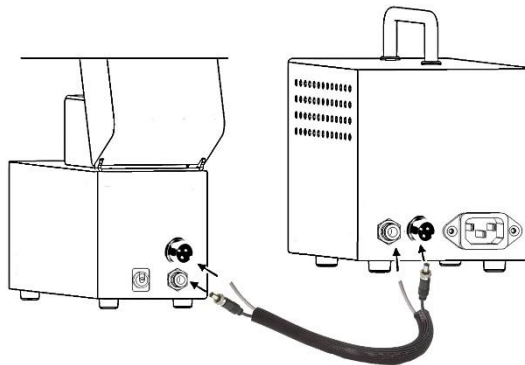


Bottom unit

- 2.4. Connect one end of the supplied power cord to the power inlet on the back of the unit, and the other end to an electrical inlet.



- 2.5. Connect one end of the supplied power and suction braids to the power and suction inlet on the back of the Top unit, and the other end to the power and suction inlet on the back of the Bottom unit.



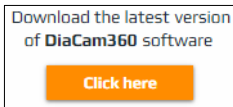
⚠ CAUTION

Do not place the Bottom unit of the device on your desktop, place in only on the floor. Placing the Bottom unit of the device on your desktop may cause the migration and damaging of delicate components in the device, resulting in blurred and uneven photos.

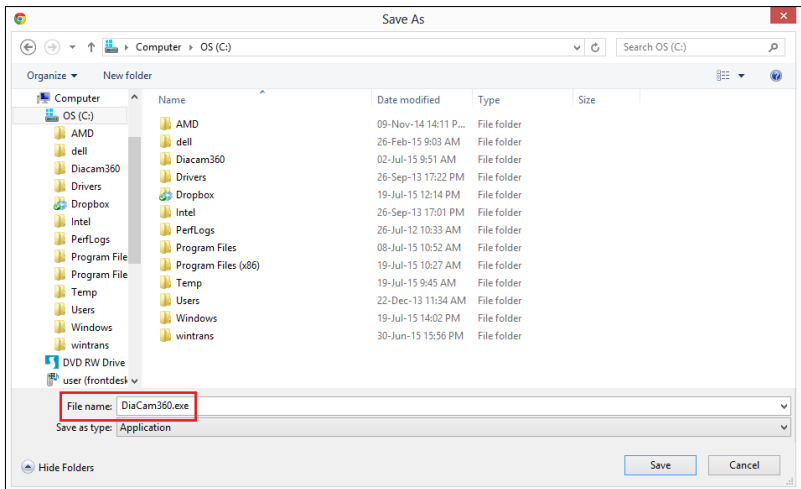
Make sure the vents on the sides of the unit are not blocked by other objects.

3. Software installation

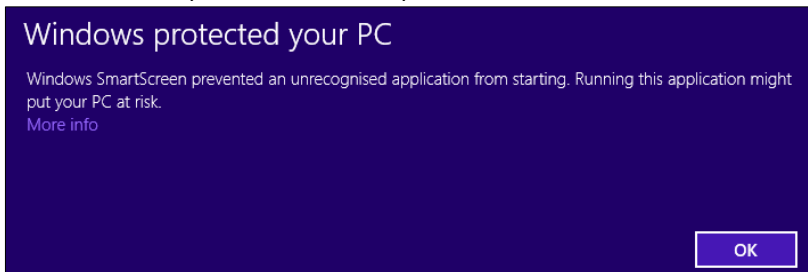
- 3.1. Open internet browser and go to: www.DiaCam360.com/Support
- 3.2. Under "**Downloads**" click on "**Click here**".



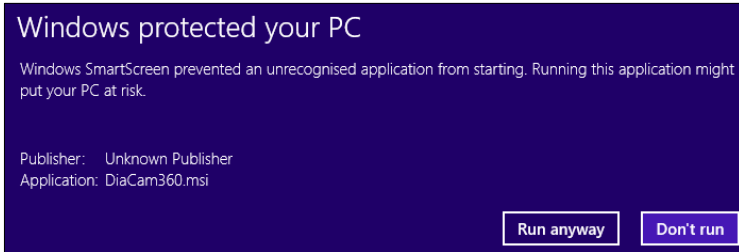
- 3.3. Click on "**Save** " to save the file "**DiaCam360.exe**"



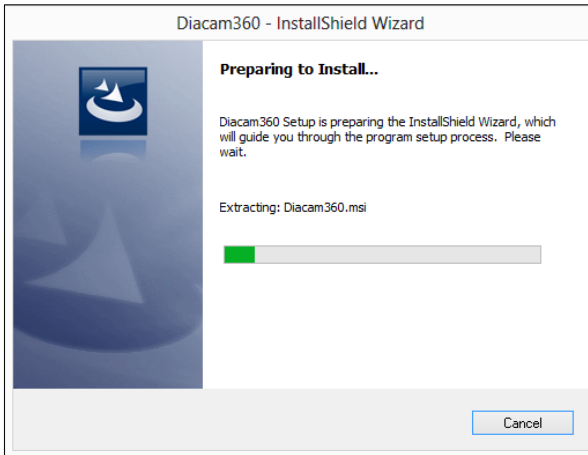
- 3.4. Wait until saving process is finished.
- 3.5. Double click on "**DiaCam360.exe**" that was previously downloaded
- 3.6. In case Windows protection window opens, click on "**More info**".



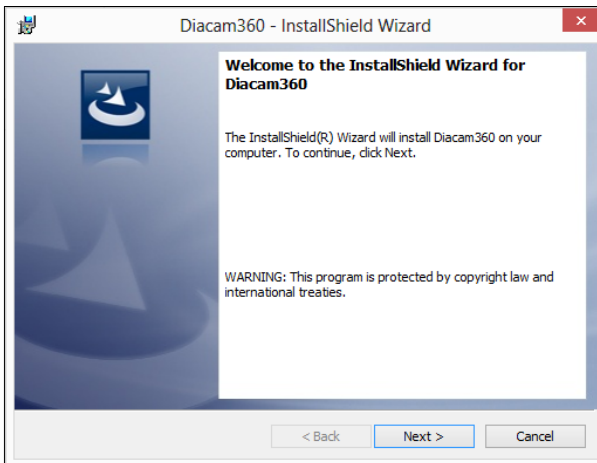
3.7. Click on "Run anyway".



3.8. Wait for the software to build the installation files

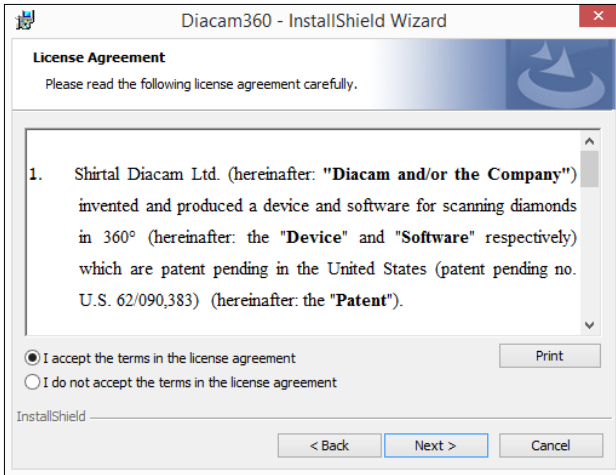


3.9. Click "Next"

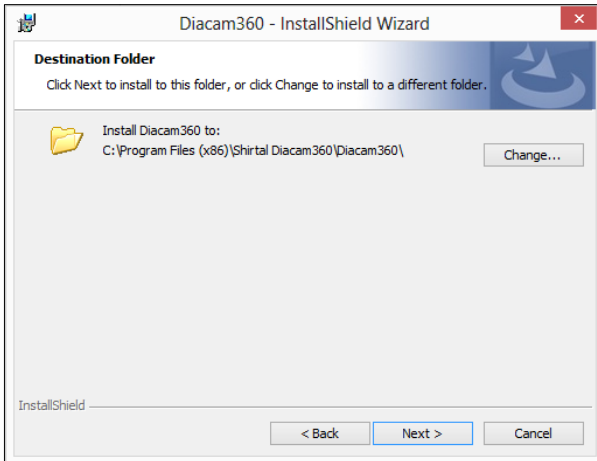


3.10. Read the License Agreement

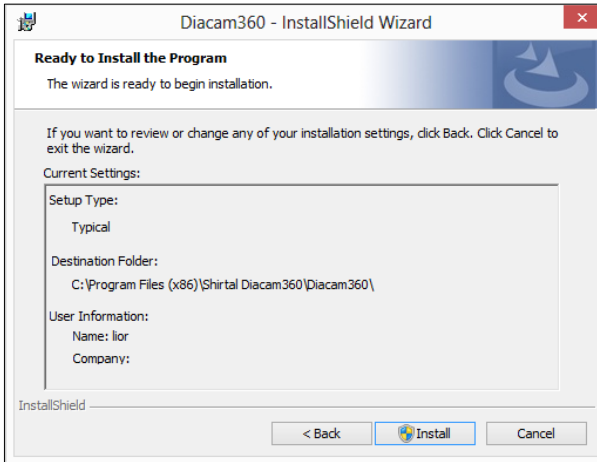
3.11. Approve the Agreement by clicking "**I accept the terms in the license agreement**" and click "**Next**".



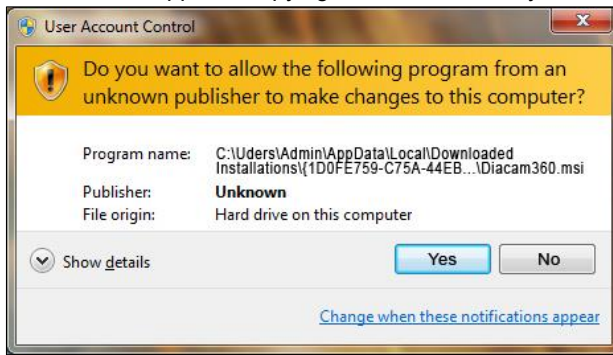
3.12. Click "**Next**" to approve installation path and directory.



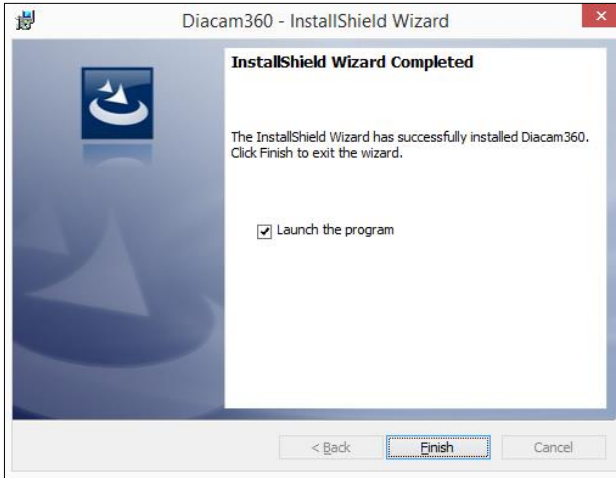
3.13. Click “Install” to start installation.



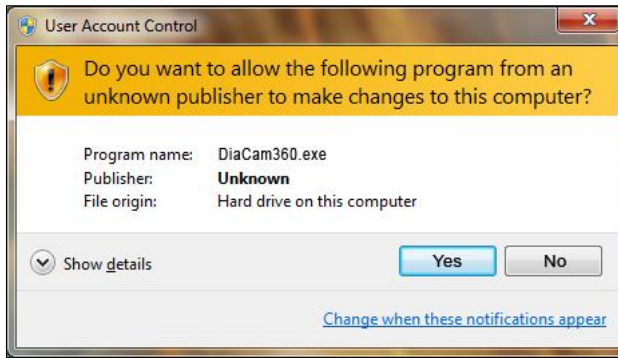
3.14. Click “Yes” to approve copying software files into your computer.



3.15. Click **“Finish”** to finish installation and launch DiaCam360 software.



3.16. In case this window appears, click **“Yes”** to approve opening the software.



3.17. Enter the Activation code and Email address sent to you by **Shirtal Diacam ltd** and click **“Next”**.



3.18. Enter or change your company details.



The screenshot shows a web browser window titled "DiaCam360". The main heading is "Welcome to DIACAM360". Below it, the text says "Please enter the following information:". The form contains several input fields: "Company name", "First name", "Last name", "Phone number", "Email", and "Web Site". The "Company logo" field has a file type selector showing ".jpg, .bmp, .png, .tif, .pdf" and a "Browse" button. At the bottom of the form, there is a "Start application" button. A note in red text states: "* Information can be entered any time through Settings". At the very bottom, there is a patent number "Patent no. U.S. 627090,383" and the website "www.DiaCam360.com".

3.18.1. **Company name**

3.18.2. **First name**

3.18.3. **Last name**

3.18.4. **Phone Number**

3.18.5. **Email**

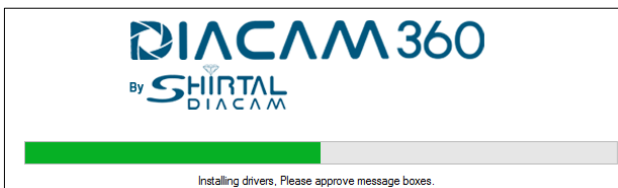
3.18.6. **Web Site**

3.18.7. To add your company logo click "**Browse**" and choose the logo file.

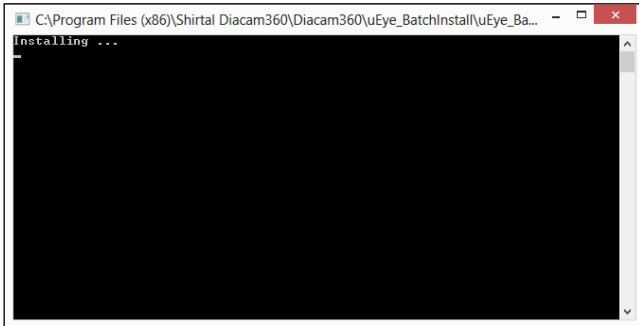
* These details will appear in each scan's page.

** It is possible to complete or change these details at any time through "**Settings**" menu.

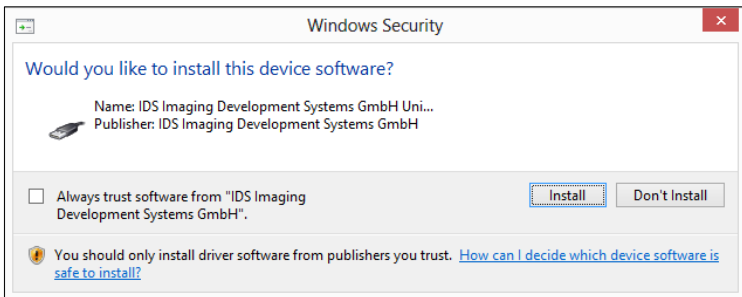
3.19. Installation of necessary drivers will start.



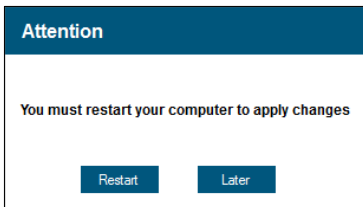
3.20. DO NOT touch or close the following windows.



3.21. Click **“Install”**.



3.22. Click **“Restart”** to enable drivers installations and restart the computer.



Operating DiaCam360

1. Switching on the scanner

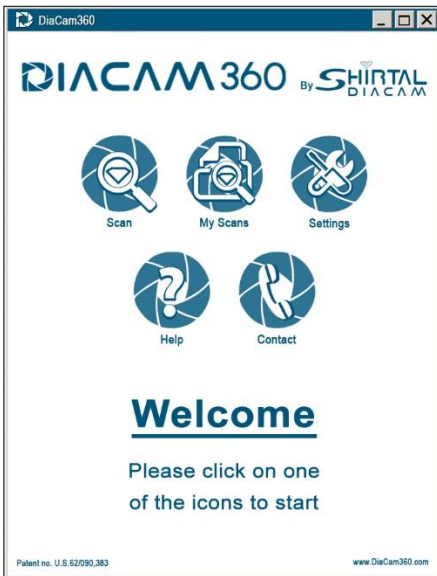
The DiaCam360 scanner will switch on automatically by the software only when initiating a diamond scan. When scan process ends the scanner will switch off automatically.

2. Start software

2.1. Double click the **DiaCam360** software shortcut on your desktop.



3. Main screen



Through this screen the following actions can be done:

- Scan – scan a new diamond
- My Scans – manage all your scans
- Settings– changing user and system settings
- Help – Q&A and Troubleshooting
- Contact– contact **Shirtal DiaCam Ltd.**

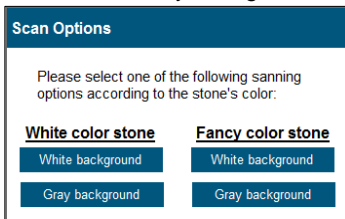
4. Scan – scan a new diamond

Click "Scan"



4.1. Click on the desired scan option:

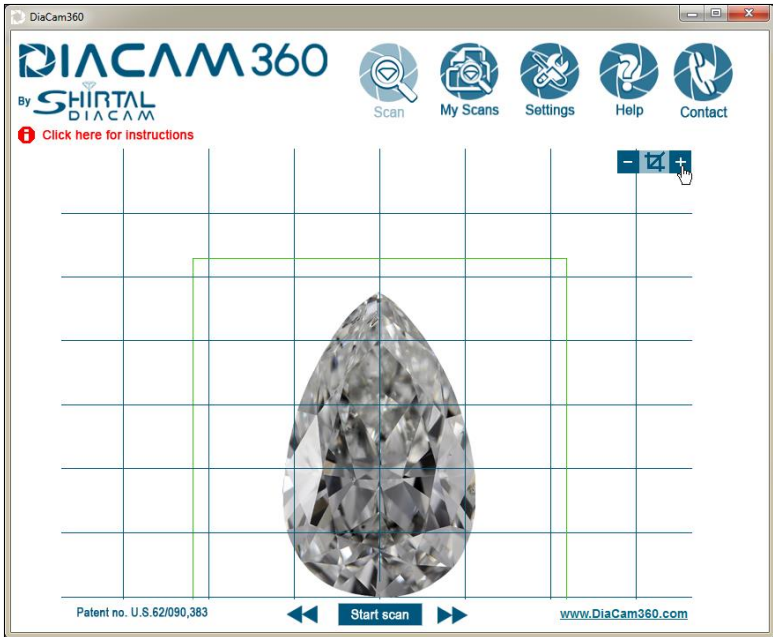
- **"White color stone"**
 - White background
 - Gray background
- **"Fancy color stone"**
 - White background
 - Gray background



4.2. Open the DiaCam360 lid, place the stone and make sure its table is facing the camera.



- 4.3. Use the **Grid** lines in the preview window to align the stone.



- 4.4. Click the **Crop** tool plus or minus buttons, on the top right part of the preview window, to choose the desired scan's window size and according to the stone's size.



- 4.5. Gently close the DiaCam360 lid.
4.6. Click "**Start scan**".



- 4.7. Wait for the scan process to end.

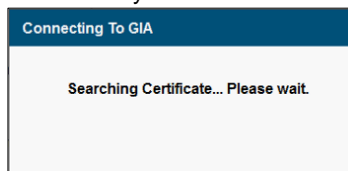
4.8. Enter the relevant stone's details.

The screenshot shows the DiaCam360 software window. At the top left is the logo 'DIACAM360 By SHIRTAI DIACAM'. To the right are navigation icons for Scan, My Scans, Settings, Help, and Contact. Below the logo is a red link: 'Click here for instructions'. The main area contains a form titled 'Please enter the following information:'. The form has the following fields:

- * Scan name/lot number (text input, mandatory)
- Lab (dropdown menu)
- Certificate Number (text input)
- Size (ct) (text input)
- Get Certificate (button)
- Shape (text input)
- Color (text input)
- Clarity (text input)
- Additional information (text area)
- Upload certificate (file browser, supported formats: jpg, bmp, png, tiff, pdf)

 At the bottom of the form, there is a red asterisk: '* Scan name/lot number is mandatory'. Below the form are 'Save' and 'Cancel' buttons. The footer contains 'Patent no. US 62/090,383' and 'www.DiaCam360.com'.

- For none certified stone:
 - "Scan name/lot number" (mandatory field)
 - "Shape"
 - "Size (ct)"
 - "Color"
 - "Clarity"
 - "Additional Information"
- For certified stone:
 - "Scan name/lot number" (mandatory field)
 - "Lab" – choose a lab from the drop down menu
 - "Certificate Number"
 - "Size (ct)"
 - Click "Get Certificate" and wait for details to be filled automatically

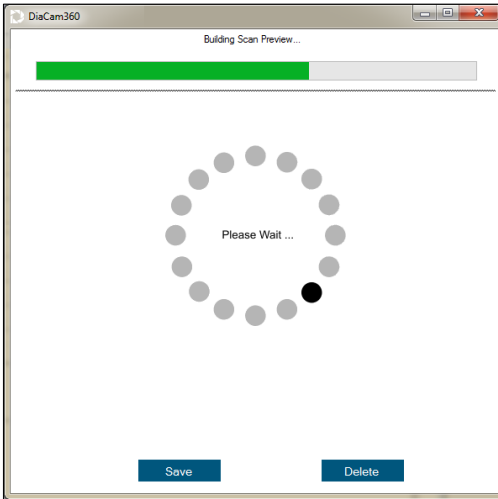


- To upload a certificate manually click "**Browse**" and choose the certificate file.

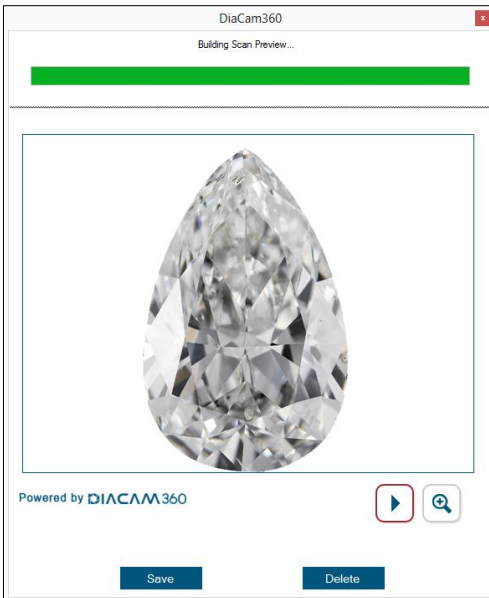
4.9. Click "Save".



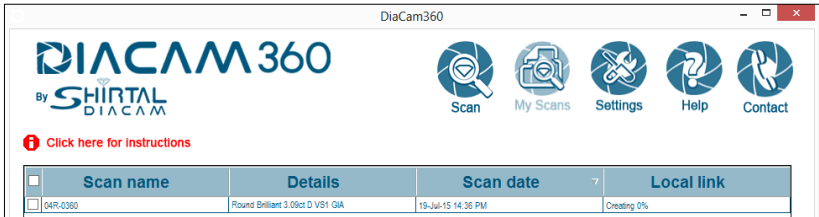
4.10. Wait until building scan process ends and preview to appear.



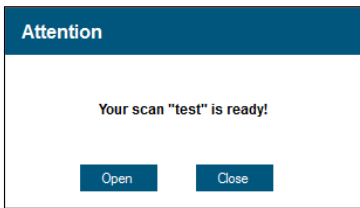
4.11. Click **“Save”** to keep the scan or click **“Delete”** to discard the scan.



4.12. Wait for the upload process to end.



4.13. Click **"Open"** to open scan's page or click **"Close"** to keep using the software.



5. My Scans– Manage all scans

Click "My scans"



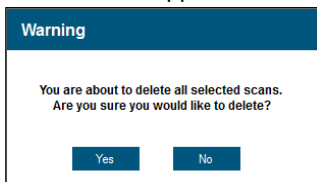
My Scans

The screenshot shows the DiaCam360 web interface. At the top, there is a navigation bar with icons for Scan, My Scans, Settings, Help, and Contact. Below the navigation bar is a table with the following columns: Scan name, Details, Scan date, and Cloud link. The table contains four rows of scan data. At the bottom of the interface, there is a status bar with the text "Scans left: 83" and buttons for "Delete", "Create a pair", "Send by Email", and "Edit".

Scan name	Details	Scan date	Cloud link
<input checked="" type="checkbox"/> 009-0031	Round 2.27x G 302 GA	30-Jun-15 12:55 PM	https://s3-us-west-2.amazonaws.com/diacam360
<input type="checkbox"/> 029-0036	Round 2.83x G 302 GA	30-Jun-15 12:42 PM	https://s3-us-west-2.amazonaws.com/diacam360
<input type="checkbox"/> 009S-0106	Plan 3 18x D V01 HPD	30-Jun-15 12:38 PM	https://s3-us-west-2.amazonaws.com/diacam360
<input type="checkbox"/> 049-0053	Round 2.35x H 301 GA	30-Jun-15 12:37 PM	https://s3-us-west-2.amazonaws.com/diacam360

5.1. Delete scans

- Mark the check box () of the scans you would like to delete.
- Click "Delete".
- Click "Yes" to approve deletion.



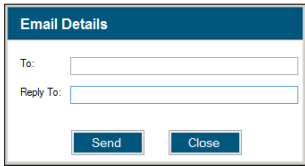
5.2. Create a pair using existing scans

- Mark the check box () of two scans you would like to unite as a pair.
- Click "Create a pair".
- A new scan will be added to "My Scans" table.

- The name of the new scan will start with "**Pair-**" plus both scans names.
For example: Pair-scan1+scan2

5.3. **Send a scan by Email**


- Mark the check box (☑) of scan you would like to send.
- Click "**Send by Email.**"
Send by Email
- Enter the recipient Email address in the "**To**" field.
- If needed change the sender's email address in the "**Reply To**" field.



The image shows a dialog box titled "Email Details". It contains two text input fields: "To:" and "Reply To:". At the bottom of the dialog, there are two buttons: "Send" and "Close".

- Click "**Send**".

5.4. Edit a scan


- Mark the check box () of scan you would like to edit
- Click **"Edit"**.

- Change the relevant details in the stone's details window



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Save Cancel www.DiaCam360.com

- Click **"Save"** to keep changes or **"Cancel"** to discard changes.



Save Cancel

6. Settings – change user and system settings

Click "Settings"



6.1. Company details tab

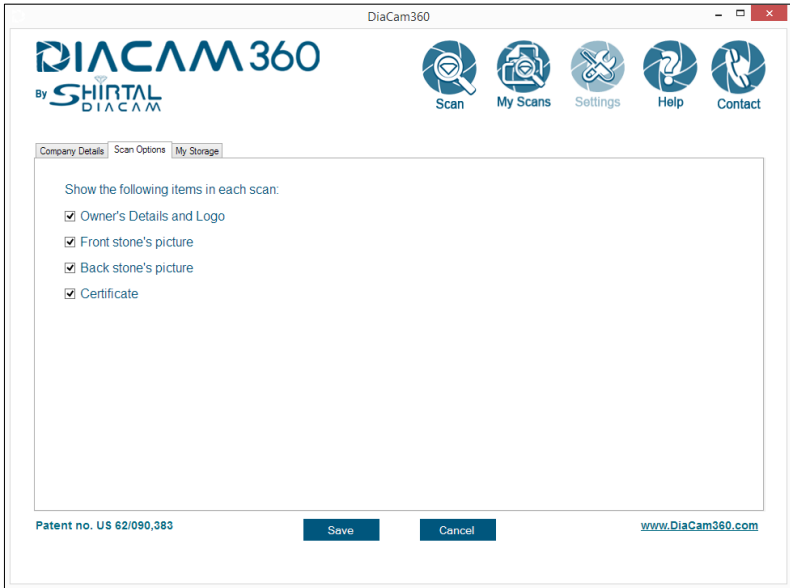


These details will appear in each scan's page.

- Enter or change your company details:
 - **Company name**
 - **First name**
 - **Last name**
 - **Phone Number**
 - **Email**
 - **Web Site**
 - To add your company logo click "**Browse**" and choose the logo file.
 - To remove an existing logo click "**Remove Logo**"
- Click "**Save**" to keep changes or "**Cancel**" to discard changes.



6.2. Scan options tab



Change scan page design:

- Mark or un-mark the check box () of any option to add or remove from the scan page:
 - "Owner's details and logo"
 - "Front stone's picture"
 - "Back stone's picture"
 - "Certificate"
- Click "Save" to keep changes or "Cancel" to discard changes.



6.3. My Storage tab

Company Details | Scan Options | My Storage

My Storage (FTP Server)

Host Port

User name

Password

Path Example - /public_html/

Public url Example - http://www.myServerURL.com/

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Enter the following details:

- **"Host"** – name or IP of the FTP server
- **"Port"** number
- **"User name"**
- **"Password"**
- **"Path"** – the main folder where all scans will be saved in
- **"Public url"** – a friendly URL to appear in each scan's address (if exist)
- Click **"Check connection"** to make sure all parameters are valid.
- Click **"Save"** to keep changes or **"Cancel"** to discard changes.



7. Help

Click **"Help"**



Clicking the button will open a new internet explorer window directing to **Diacam360** support page:

www.DiaCam360.com/Support.

7.1. **Contact**

Click "**Contact**"



- Enter all your details and reason of contact and send us by email.



The screenshot shows a web browser window titled "DiaCam360". The header includes the "DIACAM360" logo with "By SHIRTAL DIACAM" underneath. To the right of the logo are five navigation icons: "Scan", "My Scans", "Settings", "Help", and "Contact". The main content area is titled "Contact" and features a red envelope icon with a yellow "Mail" label. Below the icon is the text "Send us an email". The form fields are as follows:

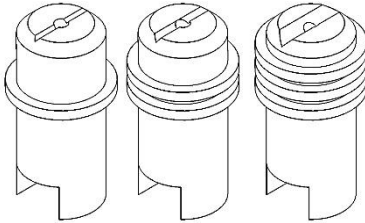
To	<input type="text" value="support@diacam360.com"/>
Name	<input type="text"/>
Email	<input type="text"/>
Phone number	<input type="text"/>
Subject	<input type="text"/>
Message	<input type="text"/>

At the bottom of the form is a blue "Send" button. The footer of the window contains "Patent no. US 62/090,383" on the left and "www.DiaCam360.com" on the right.

- Click "**Send**".

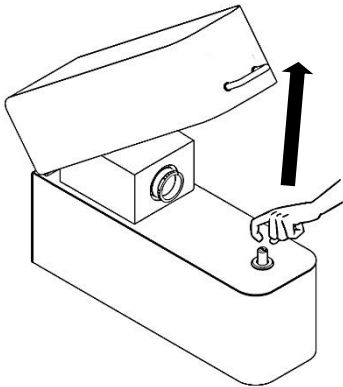
8. Replacing holding tips

8.1. The **DiaCam360** device is supplied with different holding tips to fit most of the various diamond shapes and sizes:

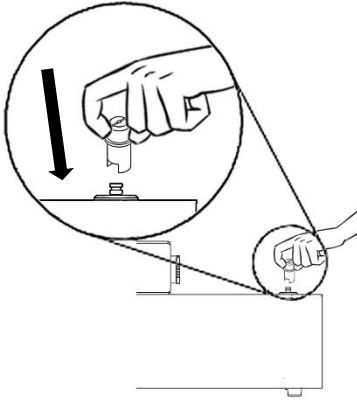


- One grip ring holding tip - suitable for thin Girdle and small diamonds (fits most Round diamonds).
- Two grip ring holding tip - suitable for small and medium sized diamonds (best suited for Fancy diamonds).
- Three grip ring holding tip - suitable for most large diamonds with thick girdle.

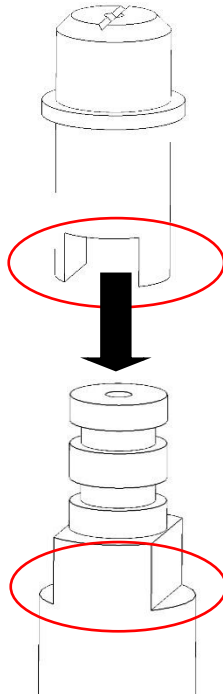
8.2. Open the lid of the device and pull the existing holding tip upwards.



- 8.3. Use some force and push the new holding tip downwards in order to replace the previous one.



Please note the position of the adjustment notches at the bottom of the holding tip, they should align perfectly with the notches of the grip slot.



Warranty Certificate



Warranty Certificate

Dear Customer,

Shirtal DiaCam Ltd congratulate you on the purchase of the **DiaCam360**.

The **DiaCam360** device you purchased has a full warranty by **Shirtal DiaCam Ltd** for the period specified in this document and subject to its terms.

Terms of Warranty

The Warranty period begins from the date of possession of the Device and will be valid subject to the conditions set forth in "Schedule for the sale of Diacam360 device" signed when ordering the device.

The Warranty shall not apply in the event that the Device was damaged as a result of a break in the Device and/or the Client's negligence and/or by neglect of the device and/or by an electrical short circuit in the Device and/or by a fall of the Device and/or by any other accident relating to natural damage or force majeure.

The Warranty shall not apply to any malfunction caused to the Device due to irregular power supply (current drop).

The Warranty shall not apply to any malfunction caused to the Device due to operation not compliant with the User Manual attached to the Device.

For the purpose of exercising the warranty the client must provide the Device to one of the Company's labs, according to the land-wide deployment of such labs as specified on the Company's website.

The Warranty for the Device shall immediately expire upon the occurrence of one of the following:

- The Device casing is opened.
- The Client and/or anyone on his behalf and/or any agent of the client sabotaged and/or harmed the Device's power cable.
- The Client and/or anyone on his behalf and/or any agent of the client harmed and/or modified and/or sabotaged any or the Device's components.
- The Device was repaired and/or there was an attempt made to repair the Device, by any other agent than the Company and/or anyone on its behalf and/or by any of its representatives.

Exclusive jurisdiction with respect and due to this Warranty shall be the courts of the Tel Aviv district in Israel only.

With kind regards,
Shirtal DiaCam Ltd.
www.Diacam360.com



