Integration Second Opinion/ Pearl AI

In advance

The practice has a subscription for second opinion and have received login details from them. Also, the practice must be running VisiQuick 4.7.0 or higher. This applies to all workstations and the replication client, if replication is used.
You can find this in your licence under menu Help - Licence.

When you are already using Second Opinion

If you are already using Second Opinion and until now used the external link to the web application from VisiQuick, you need to deactivate the upload server – the so called "scraper"- for this link beforehand. This is an application installed on your server by your Second Opinion distributor, which can also be de-installed by them or deactivated by logging in to
https://hellopearl.atlassian.net/servicedesk/customer/portal/5

Retrieving account information

Go to the website of Pearl/ Second opinion .
In the address bar the address ends with your organisation ID; make a note of this.
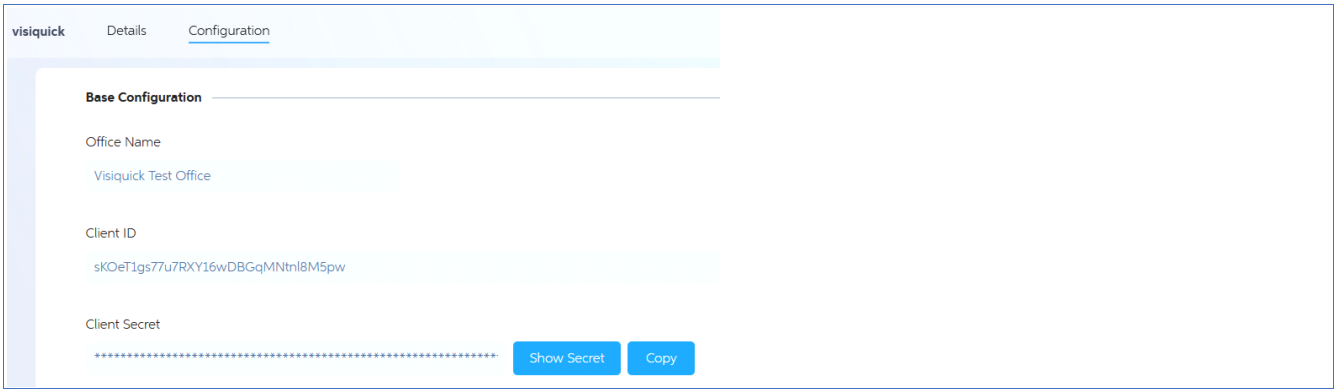For example: https://secondopinion.hellopearl.eu/#/v2/visiquick/

In the right upper corner sign in with the login details you have received from them
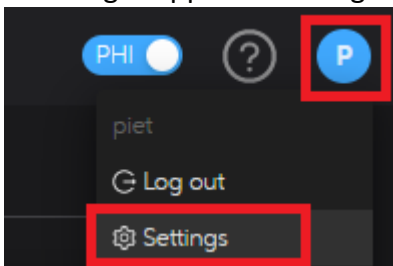
Note the number listed after your clinic if you want to submit photos for AI research for a specific clinic only.
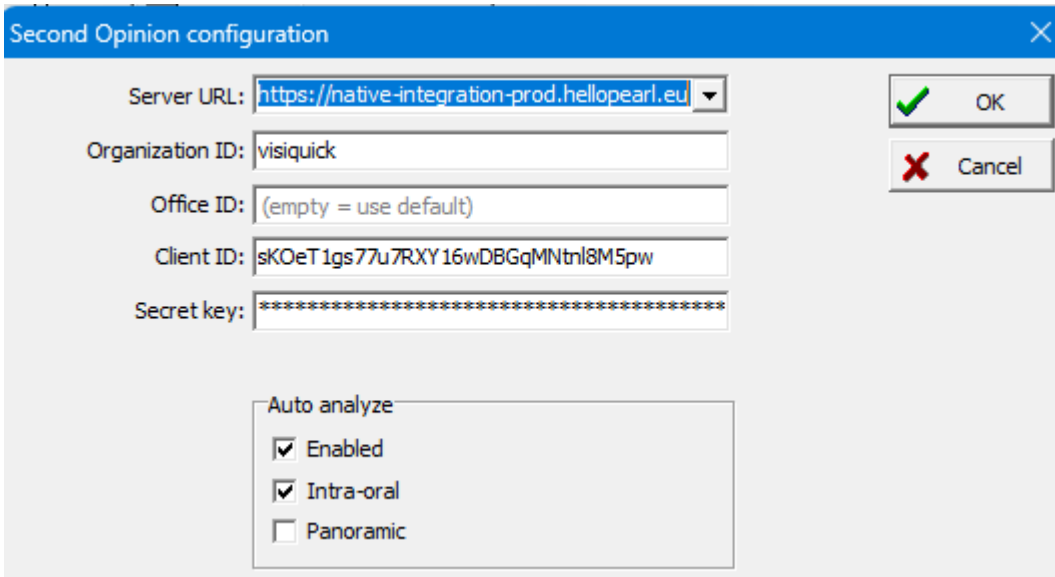Click [Manage Office] behind your clinic.
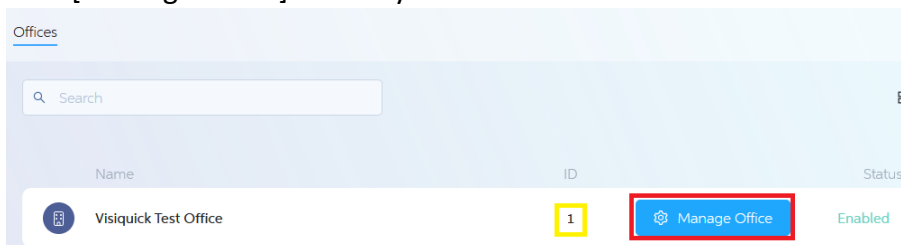
The next screen shows the client ID and password, among others. Leave this screen open so that you can later copy these details into VisiQuick.

Configure integration of Second Opinion

Go to VisiQuick, Tools, External application settings, special programs.

Select URL: select https://native-integration-prod.hellopearl.eu

Add the data you have previously procured from the Second Opinion web portal.

Organisation ID: <the last part of the address of the homepage>

Office ID: <the noted clinic number> or leave this empty if you want to use the clinic selected in VisiQuick.

Please note! Organisation and Office ID are case sensitive!

Client ID: <Copy from open web portal screen>

Client Secret Key: <Copy from open web portal screen>

Auto Analyse:

Auto analyse ensures that new radiographs are automatically forwarded to Second Opinion for analysis. If you do not enable this, you have to manually press the button to upload an image you

want analysed (see below).

If you do enable this, you have the choice of having only intra-oral images analysed automatically by Second Opinion or also the OPGs.

Activation Second Opinion Link on all workstations

For each workstation, you indicate whether or not you want to use Second Opinion by checking the 'Activate Second Opinion link' box in the Tools menu - External program settings, Special programs tab. If you want to use the Second Opinion link on all workstations, check this box on all workstations.

View Second Opinion results in VisiQuick

When you have activated 'auto analyse', photos are automatically sent to Second Opinion for analysis. Below the photo you will see the mark -->AI once and photo has been forwarded.
When analysis is successful, this changes to AI or to AI if analysis is not successful.
An analysis takes 30 seconds on average.
You can view the analysis results via the Second Opinion icon in the toolbar.

Here you also have the option to manually submit a photo for analysis, should you not have enabled 'auto analyse'.

If something went wrong with the analysis (marked by AI) and you want to know what went wrong, right-click the photo, Properties, Second Opinion.
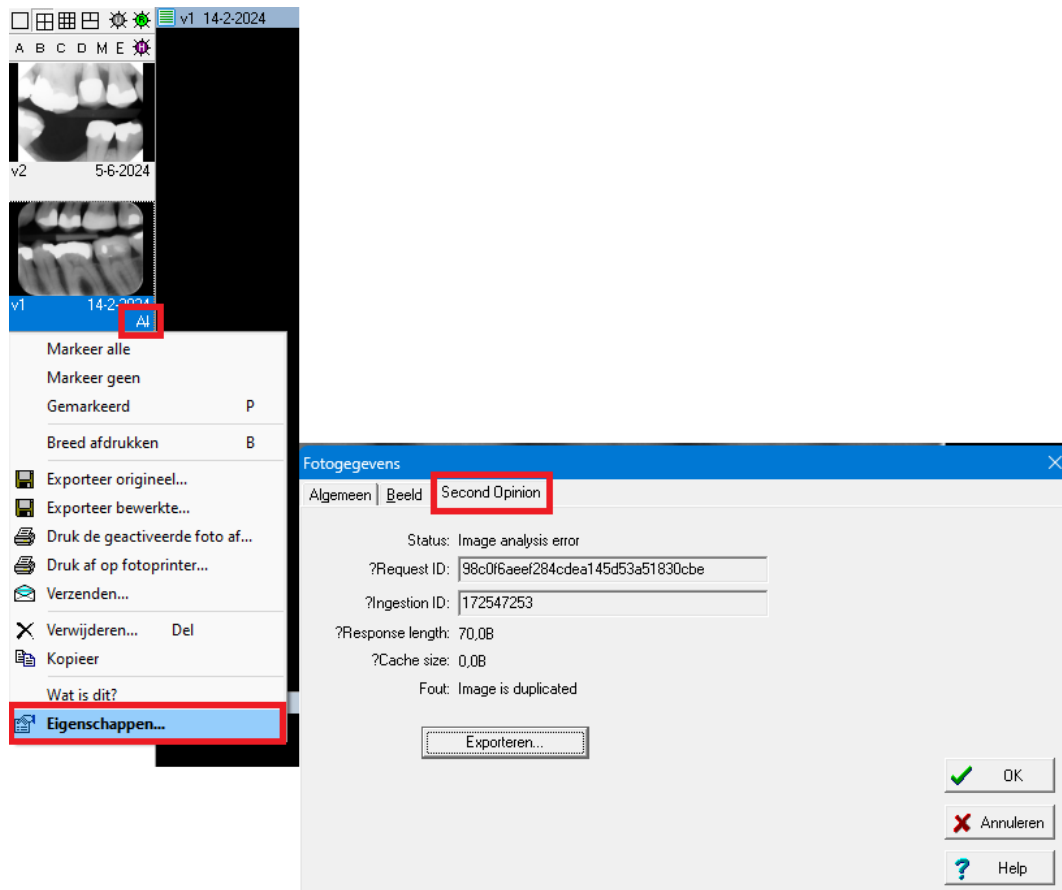
Handover Second Opinion Request to another workstation

When you send an image to Second Opinion, please note that you should not close VisiQuick completely on that workstation until you get results back from Second Opinion.
Normally, this is not a problem because VisiQuick actually always remains open in the background when you switch to your administration package and continue treating the next patient.

However, if you have fewer VisiQuick licences than the number of workstations on which you use VisiQuick, you may well consciously close VisiQuick after taking a picture.
At that moment, the application with Second Opinion stops on that workstation. It only resumes when this patient is opened again at that workstation or when the assignment is taken over at another workstation.

If you are used to always closing VisiQuick after acquisition on the acquisition PC, consider not activating the Second Opinion link on this PC or not activating automatic upload of the image to Second Opinion.

Keep in mind that in this case, in the examination room you should always consciously start or take over the Second Opinion request by pressing the [Analysis] button.

The Second Opinion toolbar
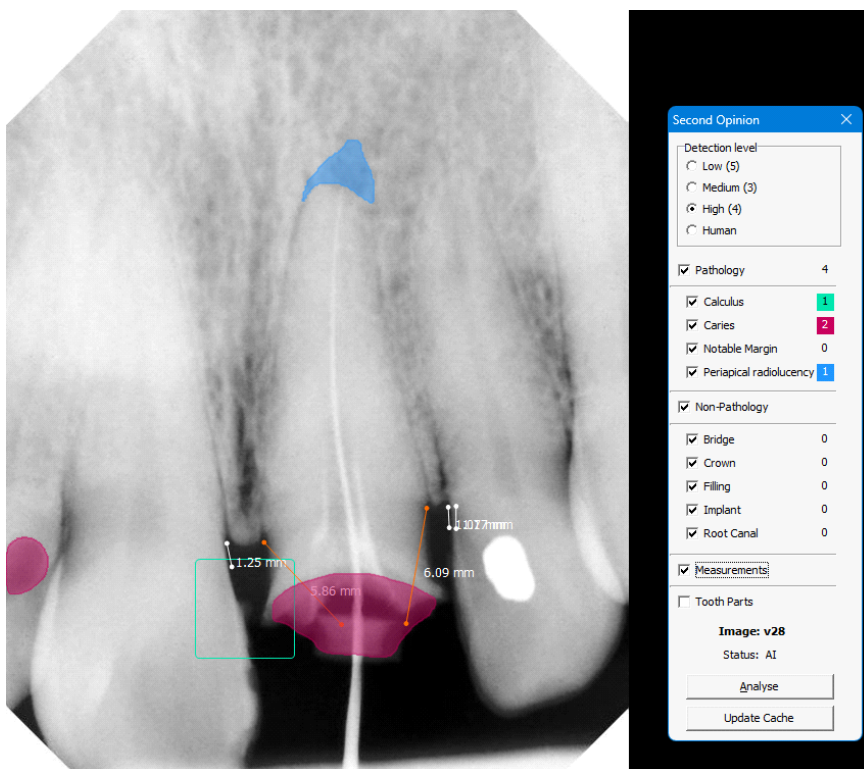
The Second Opinion toolbar has several components:

Detection level

Low, medium, high or human shows the level of AI detection.
The number displayed after the level shows the pathological items found.
This is cumulative with underlying levels.

Pathological items

Showing pathological findings can be ticked on/off. This also applies to the various pathological items: calculus, caries, notable margin and periapical radiolucency.
Again, the number of items found is shown with a number.
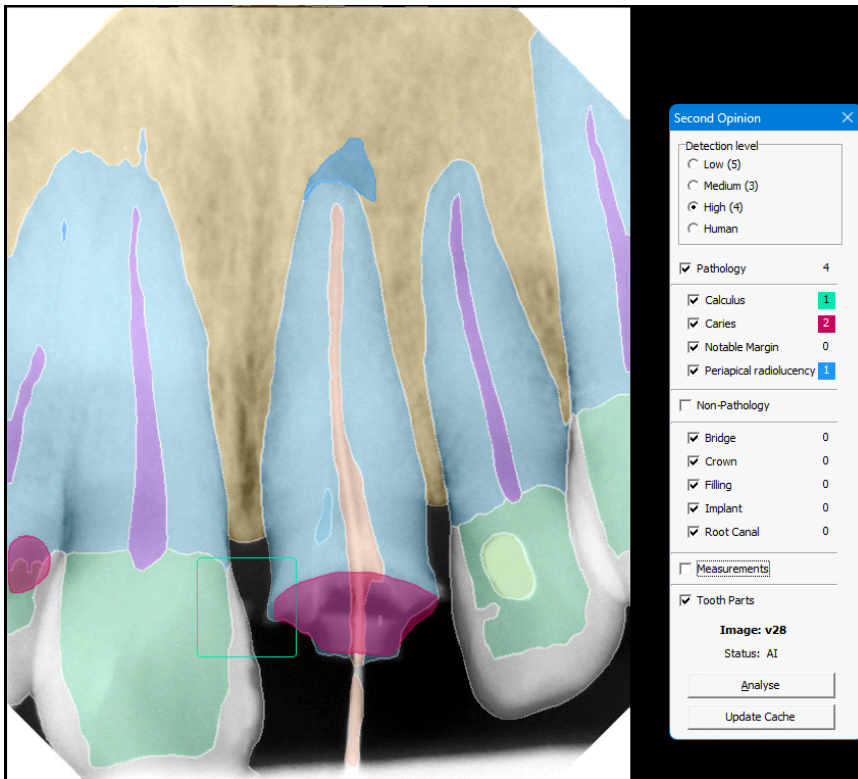
Non-pathological items

Showing non-pathological items found by AI on the photograph: bridge, crown, filling, implant, root canal .

Measurements

Displays measurements calculated by AI on the image.

Tooth parts

Display a breakdown of the various tooth parts calculated by AI.

The [Analyse] button is only used if the photo has not yet been analysed (automatically)

Known issues/ Frequently asked questions

"Function GetDbInfo not implemented"

The used replication server has a version lower than version 4.7.x
Update your replication server immediately.

Unknown field type in data: "PHDSECOP / 217"

You using a VisiQuick version lower than 4.7.X to open a patient with Second Opinion results stored in VisiQuick. Update your VisiQuick version immediately to avoid overwriting Second Opinion results.

Second Opinion Analyse button not visible

In the External application settings, the Second Opinion Link is not activated.

Check this in menu Tools - External Application settings.
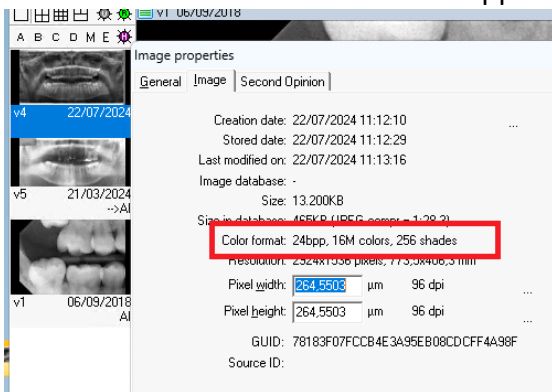
Second Opinion Analyse button not active

If the Analyse button remains grey, you cannot submit the image to Second Opinion. Probably because the photo is not a greyscale photo, but a color photo.
You can check this by right-clicking the photo and choosing Properties.
In Image tab, you will see the Color Format. This must be 8bpp for the photo to be analysed by Second Opinion.
If you received the photo from a colleague, ask them to export the image as 8bits, e.g. as a Dicom (dcm) file.