dentally
vision AI

Dentally Vision AI User Guide

HENRY SCHEIN ONE

CE

Dentally Vision AI is powered by Second Opinion AI.

User Guide Version 0.10

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Software license notice

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How to turn on Dentally Vision AI?

After the Dentally team have installed Dentally Vision AI you can toggle this on and off from your Dentally Settings.

- Navigate to '**Settings**' > '**Site'** and click the '**Edit'** button against the site you wish to enable/disable this for.
- Click into '**Features'** from the options on the left.
- Toggle this on or off as needed, and click '**Save'**

> 🔔**Important:** This can only be turned on by Level 4 at your practice.
> With AI disabled, AI results will not be available in Dentally Vision.

Acquiring Images with Dentally Vision AI

The acquisition process for Dentally Vision AI is the same process as Dentally Vision. Images are acquired in the same way with or without Dentally Vision AI enabled.

Submitting images for analysis with Dentally Vision AI

All valid images (bitewings, periapicals and panoramic radiographs of permanent teeth) are automatically submitted to Dentally Vision AI immediately after you complete the acquisition workflow in Dentally Vision.

Make sure you are using Google Chrome at 100% zoom.

The analysis results are then expected to take 30 to 40 seconds to be processed and returned for you to view.

Historical image submission

Coming soon: Images taken in the previous 12 months will be able to be processed for AI detection. For more information, please contact Dentally support.

# Using the detection confidence slider

The **detection confidence slider** lets you control which AI findings from Dentally Vision AI you see by choosing a confidence level: **Low**, **Medium**, or **High**.
This tool helps you focus on the findings that matter most for your workflow. Your selected confidence level is applied in real time and is saved for future exams.

What is detection confidence?

Each AI finding is tagged with a **confidence level** — this shows how certain the AI is that a condition (like decay or bone loss) is present in the image.

Here's what each level means:
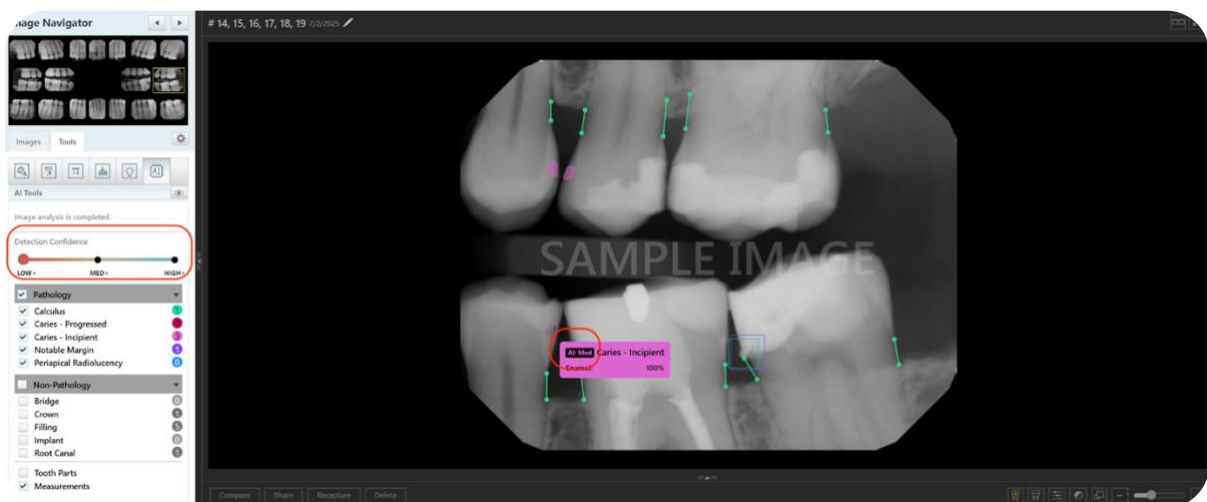
Low confidence

- The AI noticed something **subtle or unclear**.
- These findings **might** indicate a condition, but the signs are not strong.
- Good for: **early screening**, second opinions, or prompting a closer clinical review.

Medium confidence

- The AI is **moderately confident** the condition is present.
- Often reflects real issues, but **clinical confirmation is still important**.
- Good for: balancing **thoroughness with efficiency**.

▨ High confidence

- The AI is **very certain** about the finding.
- Backed by strong visual and statistical indicators.
- Good for: **quick identification** of clear, clinically-aligned issues.

💡 **Top Tip:** You can adjust the slider anytime during an exam. Your settings will be remembered automatically.

Viewing your Dentally Vision AI analysis results

You can use the '**AI**' tab in Dentally Vision to view the status and total findings. The AI tab is located in the '**Tools**' tab under the '**AI**' icon.

'**Tools**' tab

'**AI**' tab

Status and times checked
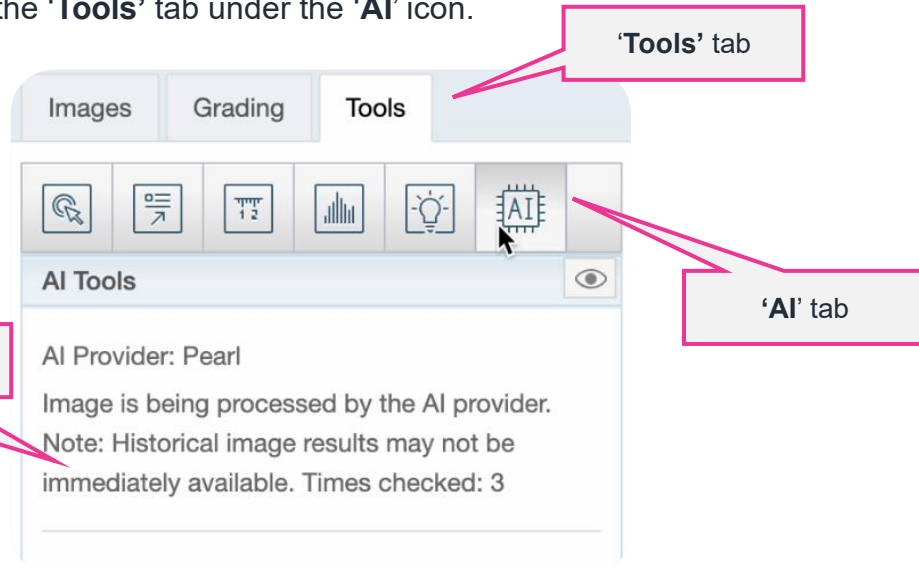
Whilst Dentally Vision AI is still in the process of analysing the image you will see, the AI Provider, the status of the review and even how many times it has currently been checked. Once complete, the tools panel will update with all the findings.

In the '**AI**' tab you can use the '**Display**' eye button to toggle on and off specific objects you wish to display.

'**Display**' eye button

'**Display**' Menu to toggle on/off specific object types.

Tools menu with more details and show/hide functionality.
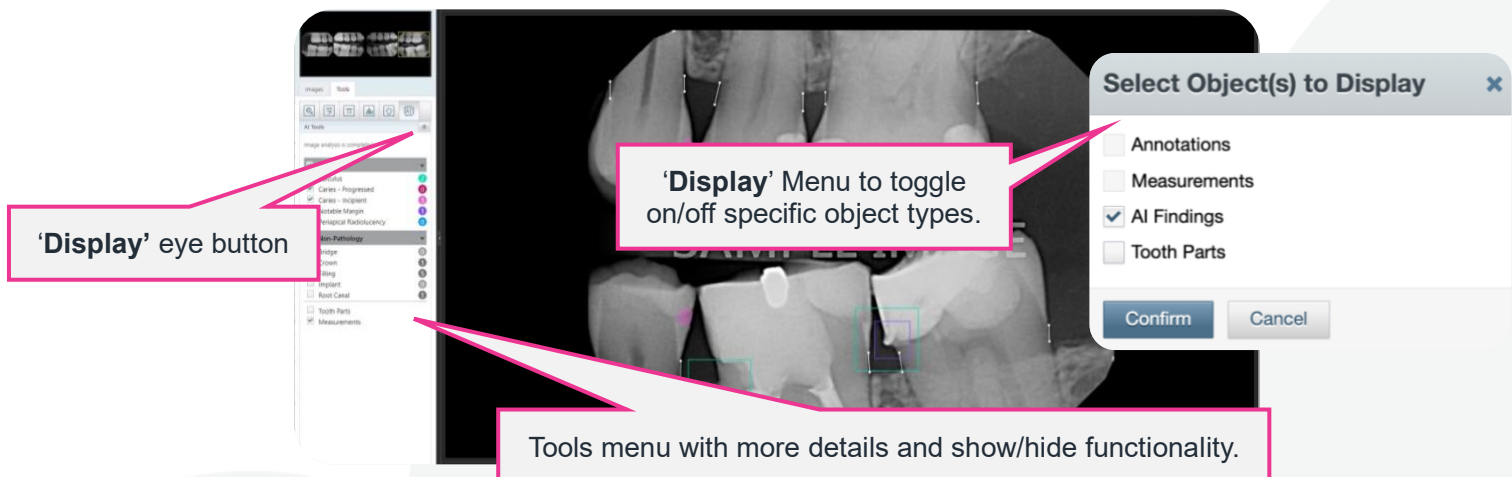
To view Annotations and Measurements you must have already added these to your images, otherwise the boxes will be greyed out under the Display options.

Review and configure your findings

The 'Tools' panel on the left of Dentally Vision will show you a full overview and breakdown of any Dentally Vision AI findings for the selected image.
It will list the AI provider and the Image analysis status at the top of the tools AI menu. You will be presented with a list of checkboxes to show/hide of all finding types:

Both 'Pathology' and 'Non-Pathology' categories can be toggled on/off as a group, or you can extend each section to see the individual finding types, which can then be toggled on/off individually as well.

The coloured circle next to each finding type, matches the finding colour and the number in the circle lists the count of that finding on the image. 'Tooth Parts' and 'Measurements' can also be toggles on/off from here as well.

Left clicking anywhere on the image will open the AI menu where you can configure which AI findings are visible at any one time.

The options in this list will vary depending on the results of the AI analysis. Simply tick or untick the desired findings.

AI Findings

Toggle on/off all AI Findings.

Tooth Part

Filling

Caries Progressed

Calculus

Measurements

Notable Margin

Caries Incipient

Close
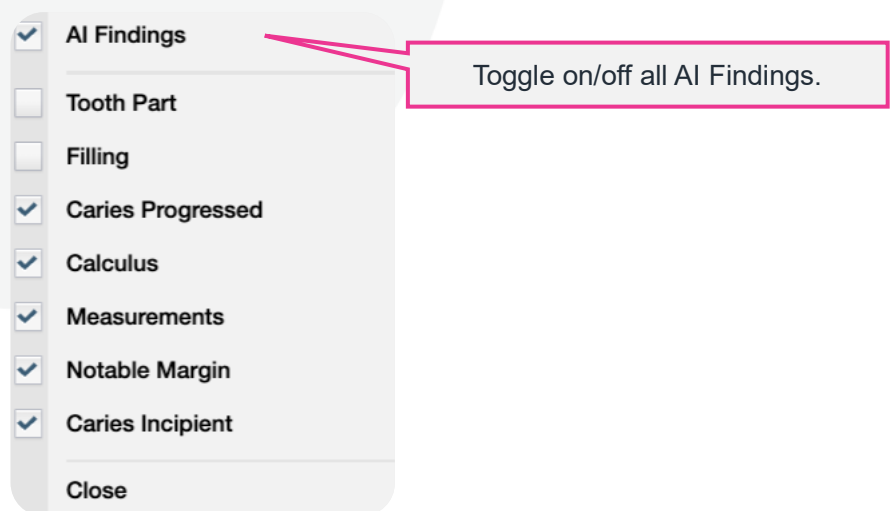
Left clicking on an **individual finding** will show you additional options to show or hide that specific finding. (*Image above on the right.*)

'Hide/Show **only this** finding' buttons

AIDE

Hide this finding

Show only this finding

AI Findings

Tooth Part

Filling

Caries Progressed

Calculus

Measurements

Notable Margin

Caries Incipient

Close

AIDE

Hide this finding

Show only this finding
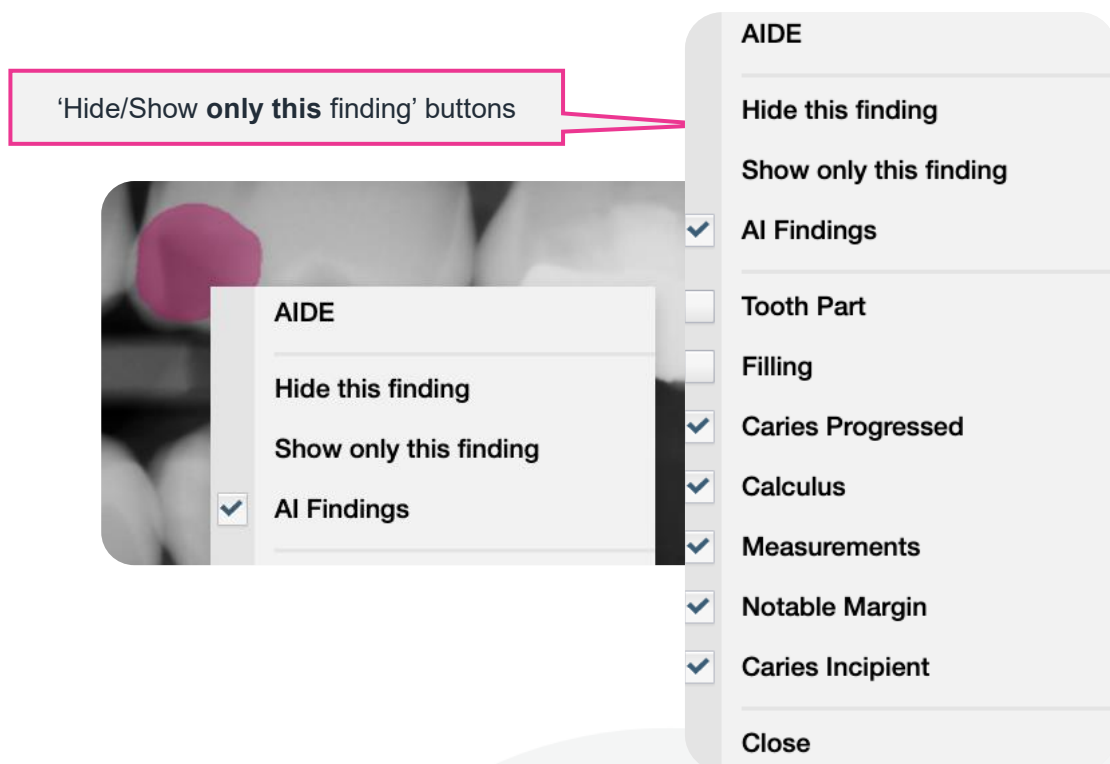
AI Findings

You can use the footer buttons to manage your AI findings 🦷 (yellow tooth) and AI Tooth parts 🦷 (blue tooth).

Clicking these icons will toggle on/off their respective finding type on/off in bulk.

Show/hide AI Findings
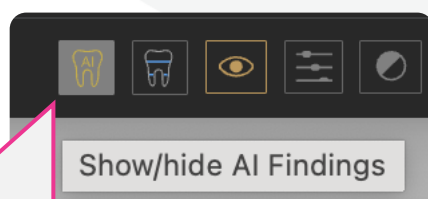
'Show/Hide **AI Findings**' button

Show/hide AI Tooth Parts
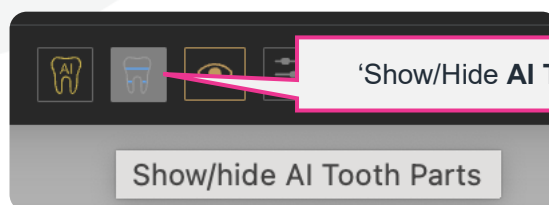
'Show/Hide **AI Tooth Parts**' button

Please note that the Show/Hide AI findings button will retain its state between images in the same exam and will default to on for each exam opened.

What do the different measurement colours mean?

These are bone level measurements. The colours indicate the different levels:
- White is 0 - 2.5mm
- Yellow is 2.5 - 4mm
- Red is 4mm+
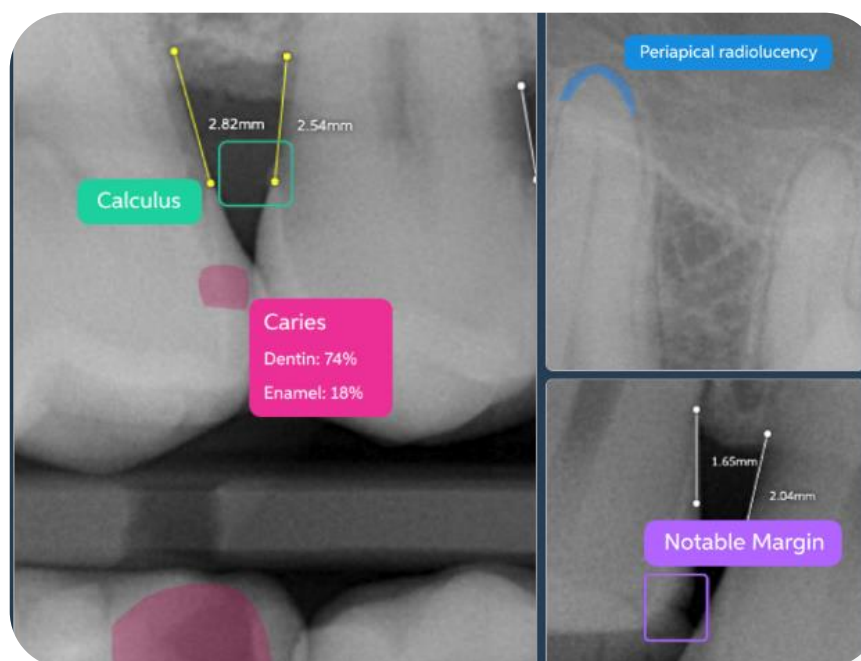
Resubmitting images

In rare cases the images may fail to be automatically submitted for AI detection. If this happens, then these images can be resubmitted within a period of 48 hours by selecting the **'Submit for analysis' button** under the AI menu on the left toolbar.
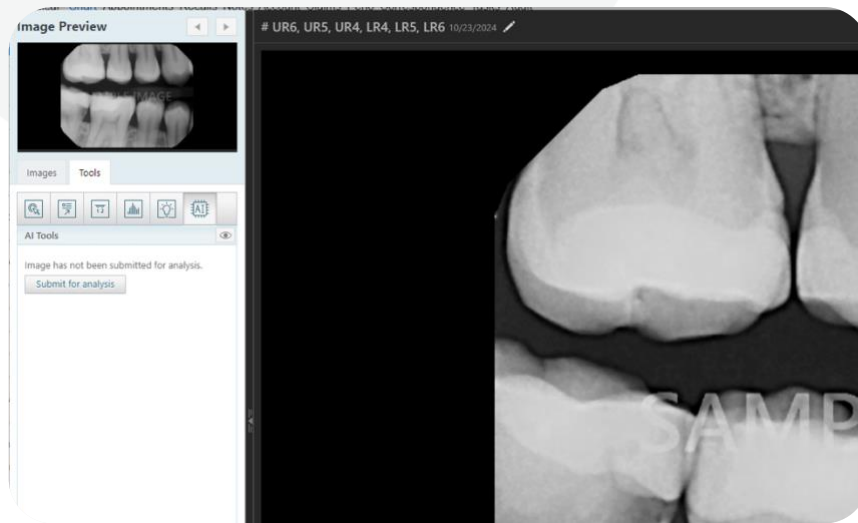
Types of results

These are a few examples and not an exhaustive list of the types of results.

Tooth parts

Anatomy

Caries - Progressed

Caries - Progressed

Cementum: 3%
Dentin: 82%
Enamel: 15%

Caries - Incipient
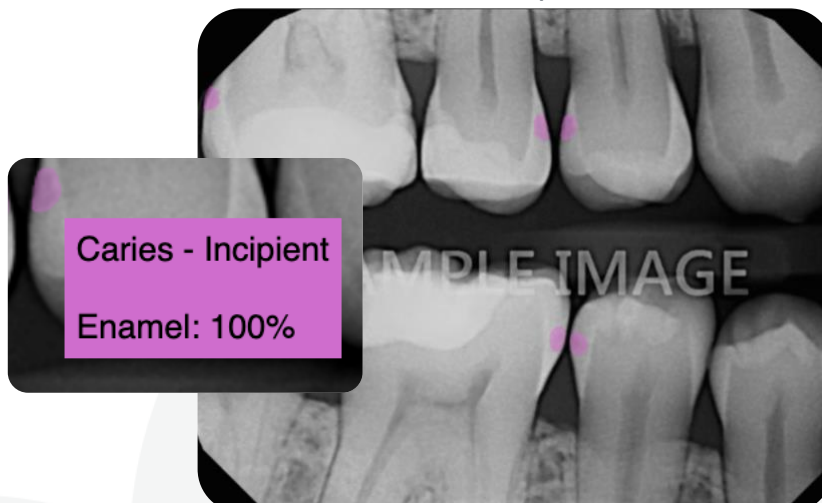
Caries - Incipient

Enamel: 100%

Filling
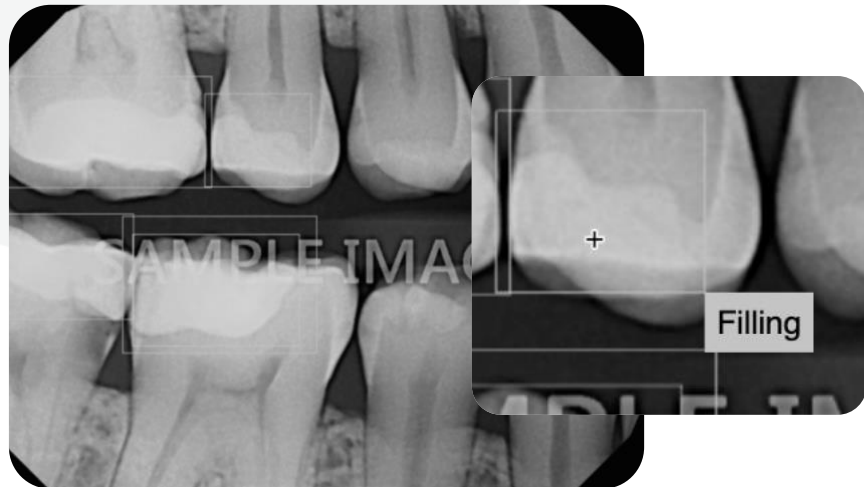
Root Canal

Calculus
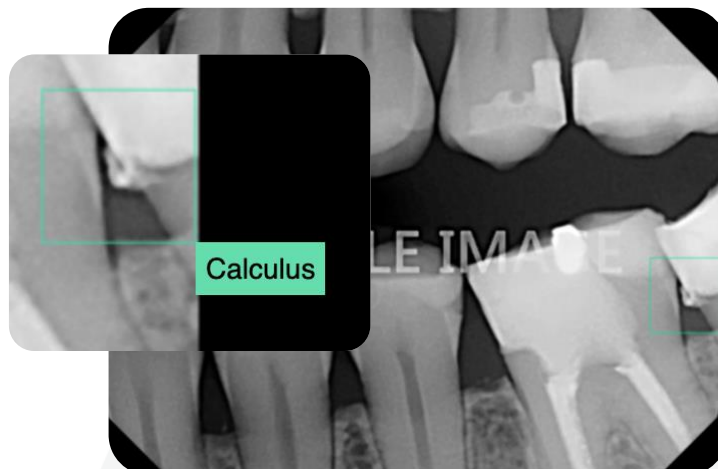
Measurements

Crown
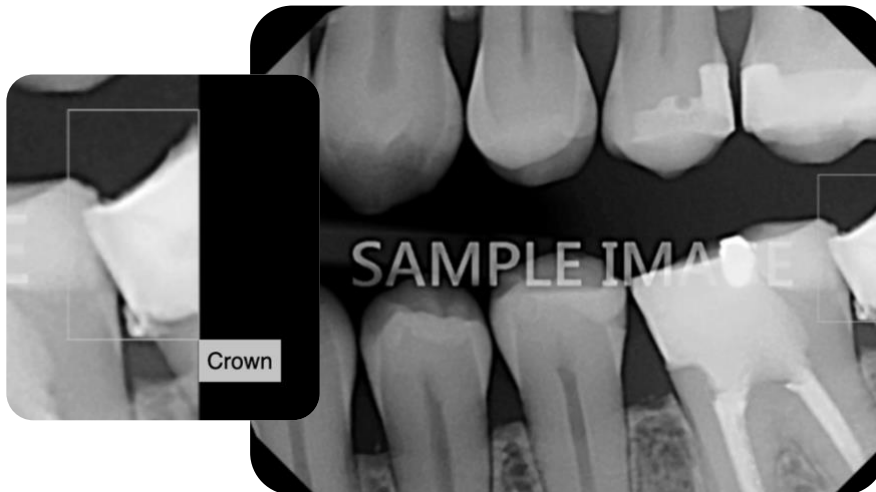
Notable Margin
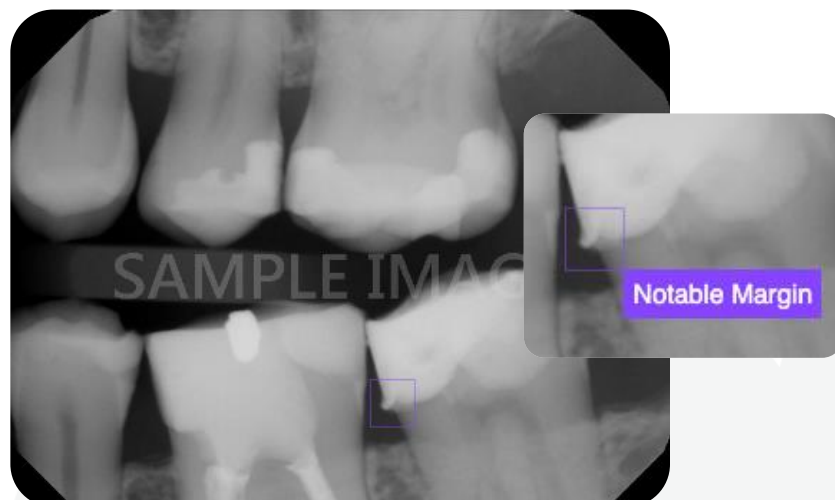
Educating Patients with AIDE

What is AIDE? Artificial Intelligence Detection Enhancement

AIDE is a great tool for patient education, AIDE automatically zooms and applies common spotlights and enhancements to your images.

Left click on a finding and click '**AIDE**'. Make sure you left click exactly on the finding you wish to view with AIDE, otherwise you will open the standard AI menu, and you will not see the AIDE option.
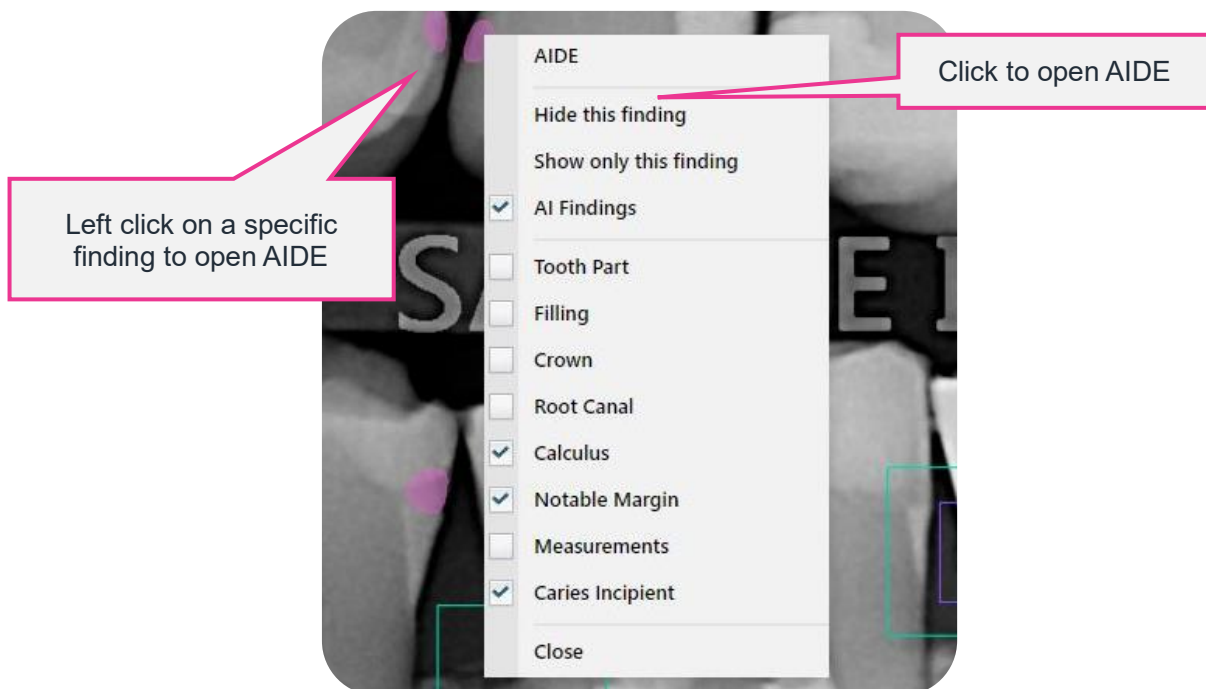
After clicking on '**AIDE**' a zoomed-in view of the specific finding will open.
You will be presented with 4 windows showing different views on the finding for you to explore further to reach a diagnosis or to educate patients on their oral health.

Once you are ready simply click '**Finish AIDE**' to return to the main Dentally Vision window.
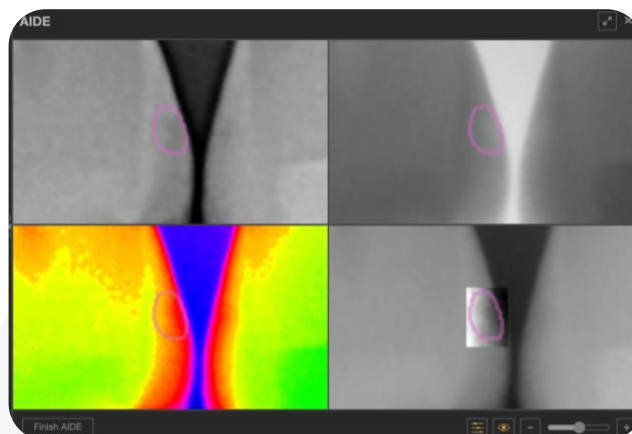
Tooth peek

Your AI findings will also be visible on the tooth peek pop up on the patient's chart.

When an image is assigned to the tooth upon acquisition, a black (or grey if the image is older) circle will appear over the tooth number.

AI findings on the image.

Circle prompt to indicate an image is assigned to the tooth.
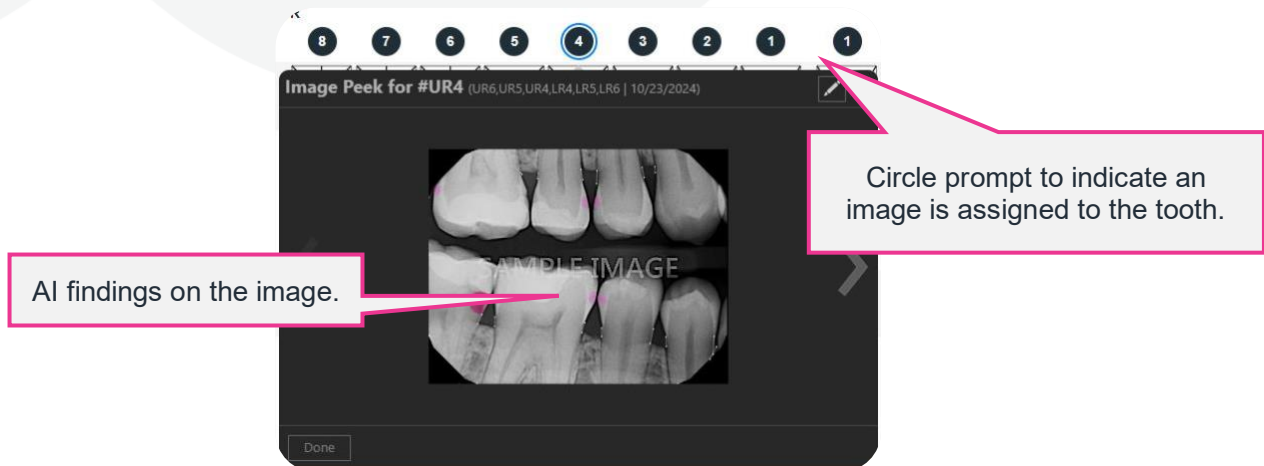
Click on the circle over the tooth number to open the sneak peek of the images assigned to that tooth. If there are any AI findings they will also be present.

Sharing AI findings

After assessing and diagnosing an image with Dentally Vision AI, you can share AI findings using the '**Share**' button located underneath the image in Dentally Vision.

'**Share**' button
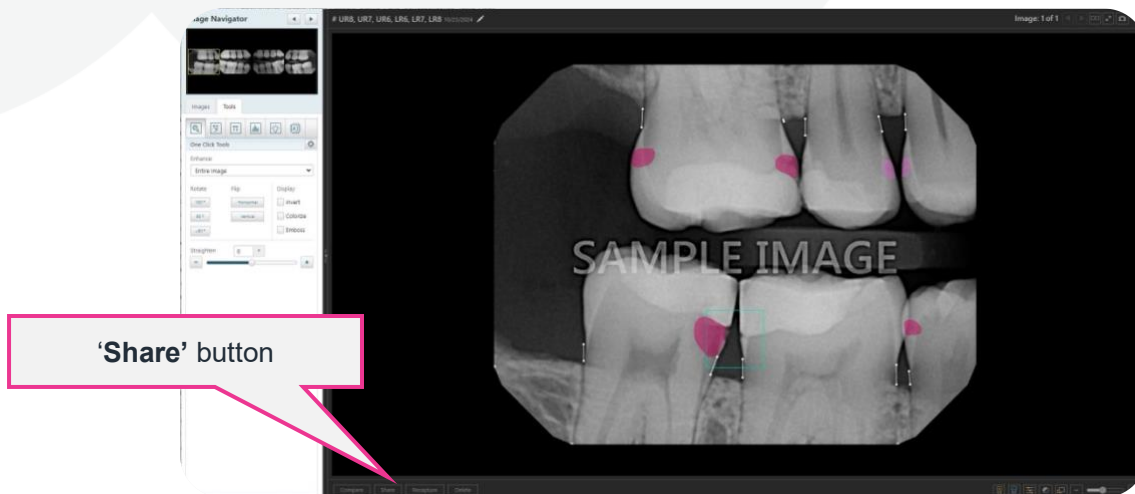
All visible AI findings will be included in the printed or exported image provided the 'Include annotations and measurements' checkbox is ticked on the sharing window.

Exam or Image(s) to be shared

Options for shared images

☐ Include image enhancements
☑ Include annotations and measurements
☐ Export as JPEG (Otherwise PNG)

Share exam as

○ Entire exam in one image
○ Entire exam in separate image(s)
○ Selected image(s) in one image
◉ Selected image(s) in separate image(s)

Exam or Image to be shared

🦷 Bitewing Two Images - 20/12/2023

Export   Print   Cancel
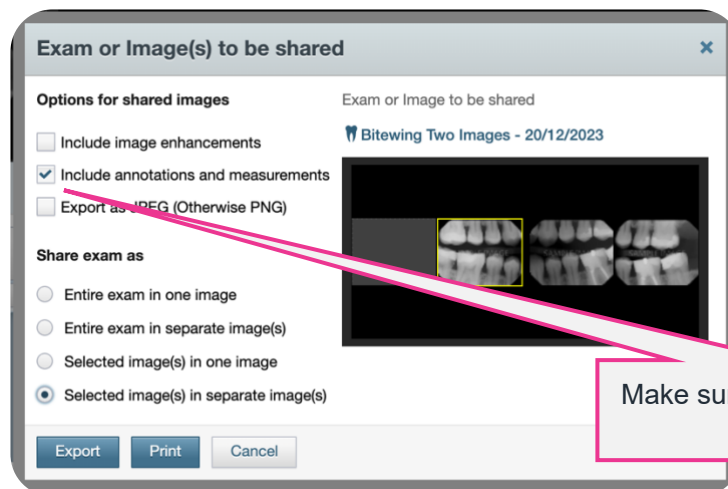
Make sure this is ticked to share AI findings.

FAQ's

What is Dentally Vision AI?

Dentally Vision AI is a cutting-edge, fully integrated cloud-based system powered by Second Opinion AI. It is designed to enhance patient outcomes and streamline your clinical workflows.

It features advanced AI clinical detection capabilities that allow for more accurate diagnoses and effective treatment plans. Dentally Vision AI combines leading disease detection and case presentation utilities into one seamless package, elevating both patient care and practice efficiency.

Why is Dentally Vision AI useful?

Dentally Vision AI is incredibly useful because it aids in enhancing patient outcomes through advanced AI clinical detection capabilities.

It helps foster patient trust and can even assist in increasing treatment acceptance by providing clear, easy-to-understand results that can be reviewed chair side with your patient. This way, patients are more informed and comfortable with their treatment options.

Additionally, Dentally Vision AI elevates your clinical workflow with a seamless experience, integrating all these features into one smooth application that saves time and improves efficiency.

How can I get Dentally Vision AI?

Dentally Vision AI is available only for sites who have Dentally Vision. Get in touch with support via Live Chat to discuss your options and register your interest today.

What is the install process for Dentally Vision AI?

Dentally Vision AI is turned on by the Dentally team in the background and will be instantly available for you to use. There is no need for any downtime and with this guide to hand you can be ready to go as soon as we have switched this on.

The process will differ if you do not yet currently use Dentally Vision. Get in touch with our team here to find out more.

What does Dentally Vision AI detect?

Dentally Vision AI detects and displays the following:

Pathologies and other conditions

- Bone Levels
- Calculus
- Caries
- Impaction
- Margin Discrepancy
- Periapical Radiolucency

Existing restorations

- Bridge
- Crown (Metal, including zirconia)
- Crown (Non-metal)
- Filling (Metal)
- Filling (Non-metal)
- Implant
- Root Canal

Does Dentally Vision AI make a diagnosis?

No. Think of Dentally Vision AI as you radiology assistant, It simply aids you in making your decisions.

It is NOT intended for use as a diagnostic device and all decisions are still left in the hands of appropriately trained and licensed dental healthcare professionals.

Is Dentally Vision AI always right?

No. Dentally Vision AI has been taught from the diagnostic data provided by human dentists and radiologists, and as you know, dentists often disagree with one another regarding diagnosis. Therefore Dentally Vision AI will sometimes make detections that you don't agree with.

Dentally Vision AI can still provide great value by highlighting areas of interest that you may have missed, and you should disregard any detections that you do not feel are accurate.

The software is intended to support you, but all final diagnostic decisions are yours and yours alone.

How does Dentally Vision AI work?

Dentally Vision AI will automatically assess your images straight after acquisition and will take around 40 seconds to load its assessment and diagnosis of the image. Read more about how Dentally Vision AI works and how to use it in our full user guide here.

Can my older images be reviewed by Dentally Vision AI? *This feature is COMING SOON!*

Yes, we will have the ability to run a back fill on your historic images (over the last 12 months only) for a one off cost. Once run, Dentally Vision AI will be able to provide you with the same diagnosis across existing images as it does with all future images.

This will require you to have your historic images in Dentally Vision. Previous images can be imported into Dentally Vision as part of the initial Dentally Vision implementation costs.

Can Dentally Vision AI assess both dentitions?

Dentally Vision AI is designed to be used on permanent dentitions only. It is not recommended for use on deciduous teeth.

What happens if I change my mind and no longer want to use Dentally Vision AI?

Dentally Vision AI can be turned off and you can continue to use Dentally Vision as per normal. However once you start seeing the benefits of increased case acceptance and condition detection we are confident that you will not go back!

If I choose to leave Dentally does the AI information come with my digital images?

No, the Dentally Vision AI overlay is provided as a feature which is only viewable while you are still using Dentally Vision AI in Dentally Vision

Can I integrate a different AI product into Dentally Vision?

No, we do not currently support any other AI products in Dentally Vision.

Will Dentally Vision AI diagnose imported images?

Yes, if you have the need to import images through the acquisition workflow for example from a referral patient, Dentally Vision AI will still assess the image.

Bear in mind, the image must be imported through the Dentally Vision acquisition workflow, and if it is a valid image then Dentally Vision AI will make its assessment and diagnosis as normal.

Can I see my findings when comparing images?

Yes! All your findings can be toggled on and off when comparing images using the AI tooth icon at the bottom of the screen.
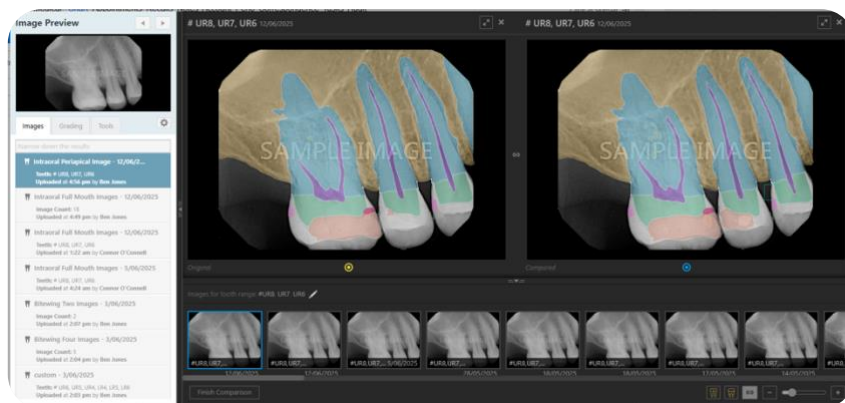
Can I see my AI findings in Modality view?

Yes! Your AI results can be toggled on/off in Modality view by using the existing tooth shaped AI icon in footer.

Additional Regulatory Information

Real Cloud Imaging

Version

You can find the UDI (Unique Device Identifier) followed by the current version number of Dentally Vision by doing the following: You can go to the Developer Tools panel (in Chrome) or on the Web Inspector panel (in Safari), select the Console tab, and then open Dentally Vision. A line of text similar to "Imaging: (01)00864058000302(10)1.1.8595.29819 7/14/2023 4:33 PM "appears.

Real Cloud Imaging Inc.
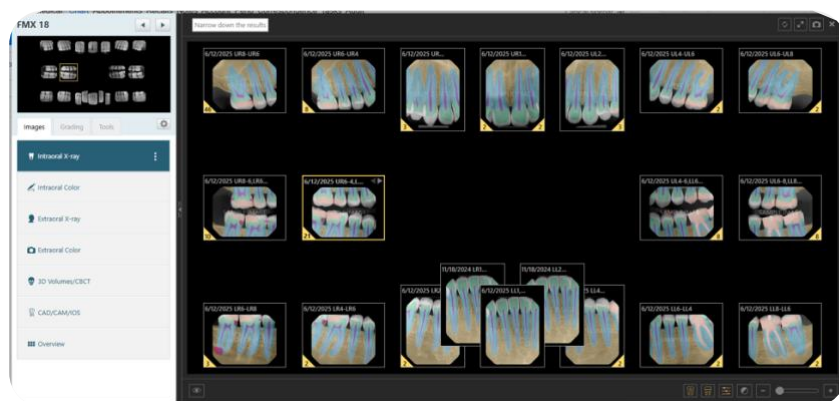2625 North Loop Drive, Suite 2130
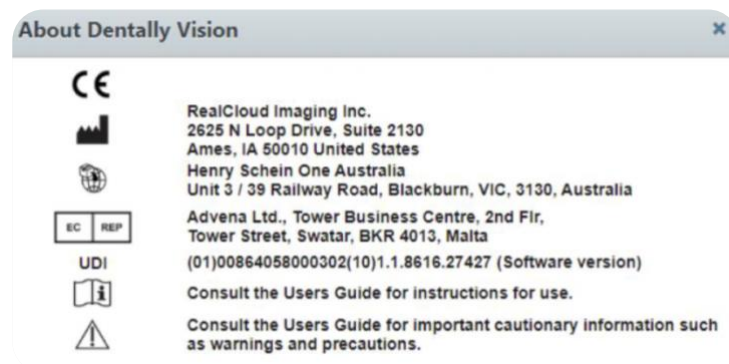Ames, IA 50010, United States

Henry Schein One Australia
Unit 3/39 Railway Road, Blackburn, VI, 3130, Australia

Advena Ltd., Tower Business Centre, 2nd Floor,
Tower Street, Swatar, BKR 4013, Malta

EC REP

Alternatively, you can view the UDI by going to the "About Dentally Imaging" button in the bottom right-hand corner of the Cloud Gallery

Australia and Canadian Label

About Dentally Vision

CE

RealCloud Imaging Inc.
2625 N Loop Drive, Suite 2130
Ames, IA 50010 United States
Henry Schein One Australia
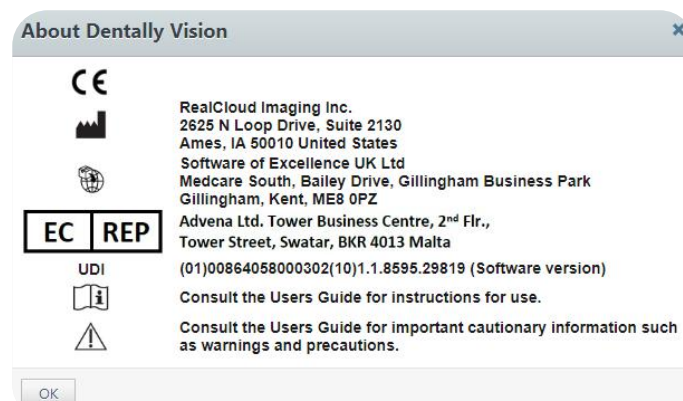Unit 3 / 39 Railway Road, Blackburn, VIC, 3130, Australia

EC REP
Advena Ltd., Tower Business Centre, 2nd Flr,
Tower Street, Swatar, BKR 4013, Malta

UDI   (01)00864058000302(10)1.1.8616.27427 (Software version)

Consult the Users Guide for instructions for use.

Consult the Users Guide for important cautionary information such as warnings and precautions.

UK Label

About Dentally Vision

CE

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UDI   (01)00864058000302(10)1.1.8595.29819 (Software version)

Consult the Users Guide for instructions for use.

Consult the Users Guide for important cautionary information such as warnings and precautions.

OK

Second Opinion

Regulatory Compliance

CE 0459

Second Opinion® complies with the regulatory requirements of the following:

- ENISO13485:2016 entitled Medical Devices.
- Quality Management Systems Requirements for regulatory purposes, FDA 21 CFR Part 820 entitled Quality System Regulation (QSR).
- EU Medical Device Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on Medical Device (MDR)
- Medical Device Single Audit Program (MDSAP)
- Canadian Medical Devices Regulations SOR 98-282
- The Health Insurance Portability and Accountability Act (HIPAA)
- The Australian Therapeutic Goods Act 1989 and the Therapeutic Goods (Medical Devices) Regulations 2002.

Indications for Use

Second Opinion® is a computer aided detection ("CADe") software to identify and mark regions, in bitewing and periapical radiographs, in relation to suspected dental findings which include: Bone level measurement, segmentation of Caries, Discrepancy at the margin of an existing restoration, Calculus, Periapical radiolucency, impacted teeth, Crown (metal, including zirconia & non-metal), Filling (metal & non-metal), Root canal, Bridge and Implants. In addition, Second Opinion® is CADe software to identify and mark regions, in panoramic radiographs, in relation to suspected dental findings which include: Segmentation of Caries, Periapical radiolucency, and Impacted teeth. It is designed to aid dental health professionals to review bitewing, periapical and panoramic radiographs of permanent teeth in patients 12 years of age or older as a second reader.

Manufacturer- Pearl Inc.
2515 Benedict Canyon Dr.
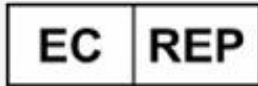Beverly Hills, CA 90210 USA

UDI

Basic UDI-DI: ++D087SECONDOPINION2H8
Labeler Identification Code (LIC): D087
Model Identifier: SECONDOPINION2
Check Character: H8

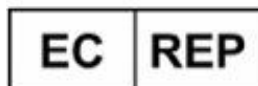## Additional EU Details

EC | REP

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Additional UK Details

EC | REP

UK Responsible Person (or UKRP)
Alpa Medical
29 Rowner Crescent,
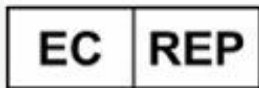Sherfield-On-Loddon Hampshire,
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Additional AU Details

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