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# Planmeca Emerald™ S

## Hyper-speed scanning with superior usability




ENGLISH

PLANMECA

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# Why go digital?

## Improve usability and comfort with intraoral scans

*It makes plain sense to enter the world of intraoral scanning – digital impressions are more convenient for your team to capture and more comfortable for your patients. They offer numerous advantages over traditional impressions.*

- Faster, easier, and more comfortable
- Single appointment treatments due to saved time
- Superior digital accuracy
- New treatment possibilities
- Digital transfer and storage
- Cost savings on materials and shipping

**Go digital and get inspired!**






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# Planmeca Emerald™ S

## Exceedingly fast next-gen intraoral scanner

***Planmeca Emerald™ S*** *is an enhanced version of our beloved* ***Planmeca Emerald™*** *intraoral scanner. The exceptionally precise scanner combines all the proven features of the original Planmeca Emerald with spectacular improvements in usability and speed. Capturing digital impressions has never been as easy!*

### Easy to share

Plug-and-play capability allows effortless sharing between operatories and laptops

### Small and lightweight

Compact and ergonomic body – easily fits in your hand for more control while capturing images

### Streamlined tooth shade capture

Shade assistant feature simplifies the colour-matching process through improved colour uniformity

### Superior accuracy with outstanding speed

Captures images at lightning speed with a richer and more vivid colour palette

### Reliable infection control

Smaller, seamless, and autoclavable tips for enhanced infection control




### Large field of view

Captures a comprehensive view of the patient's oral health and visualises the oral health conditions effortlessly

### Replaceable cord

Reduces wear and tear, extending the scanner's life cycle

### Lowered power consumption

Next-generation technology results in a more efficient scanner with lower overall power consumption

### Customisable appearance

Easily customisable to meet the colour scheme of your office with an assortment of colours – green, pink, blue and grey.

### Hygienic hands-free operation

The scanner's two buttons allow the scanning software to be operated without touching a mouse or keyboard. The dental unit integrated scanner can also be controlled from a foot pedal

### Active antifog scanning

Automatic fog prevention allows continuous scanning and reduces scan times. Three scanning tip options available for different needs

## Specifications

| | |
|---|---|
| Lifetime licence | ✔ |
| Smart two-button function | ✔ |
| True colour scanning | ✔ |
| Scans intraorally, impressions and models | ✔ |
| Heated mirror guarantees non-fogging operation | ✔ |
| Autoclavable tips | ✔ |
| Powder-free scanning | ✔ |

| | |
|---|---|
| Data output | Open STL and PLY |
| Scanning technology | Projected pattern triangulation |
| Light source | Red, green, and blue lasers |
| Dimensions | Scanner with tip: 41 x 45 x 249 mm |
| Weight | Scanner with tip: 229 g |
| Connecting cable | USB A type connection on the laptop end<br>USB C type connection on the scanner end<br>All cables are designed to transmit data via USB 3 |

## Recommended PC system requirements

| | |
|---|---|
| Processor | Intel i7, 9th generation or better |
| RAM | 32 GB |
| Graphics card | NVIDIA GeForce RTX 2070 8 GB or better<br>NVIDIA Quadro RTX 3000 6 GB or better |
| Monitor | Full HD resolution |
| Cable interface | USB 3 |
| Operating system | Windows 10 (64 bit) Pro |



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# Different tips for different needs

## Always the right tool in your hands

*With two different scanning tip sizes, the **Planmeca Emerald™ S** scanner meets all your diagnostic needs. The intraoral scanner also allows using transillumination technology for caries detection: just change the tip and you have two outstanding devices in one!*

### Standard tip

Standard scanning tip is the perfect tool for performing general intraoral scanning extremely fast and conveniently.



### SlimLine tip

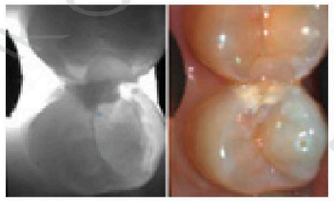
SlimLine tip is thinner and smaller than the standard tip, and an ideal choice for scanning patients with smaller mouths. It makes reaching posterior teeth and capturing interproximal areas even easier.



## See the teeth in a whole new light!



Coming soon!



### Planmeca Cariosity™ tip

**Planmeca Cariosity™** scanning tip is an excellent tool for caries diagnostics: it helps clinicians to detect approximal, occlusal and secundary caries as well as cracks in their early stages.

With the Planmeca Cariosity tip, you can see through the tooth. You can turn the light on from one side at a time or simultaneously from both sides to get the best possible view for diagnostics.

The unbeatable combination of examining HD colour and caries detection views side by side makes diagnostic procedures even easier. The views can also be saved and documented effortlessly.

Caries detection is done with a radiation-free near-infrared light, which is safe for the patient.

All diagnostic tools are available at once through seamless integration with X-ray images in **Planmeca Romexis®** software.

- ✔ Autoclavable tips for impeccable infection control
- ✔ Heated tip for active fog prevention
- ✔ Change the tip anytime and continue scanning

**Just change the tip and you are ready to go!**





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# Vast range of indications

## Expand your clinical capabilities

*__Planmeca Emerald™ S__ is a flexible intraoral scanner that supports various different workflows. With a wide range of treatment options, the scanner offers benefits across several specialities.*

### Full arch scanning

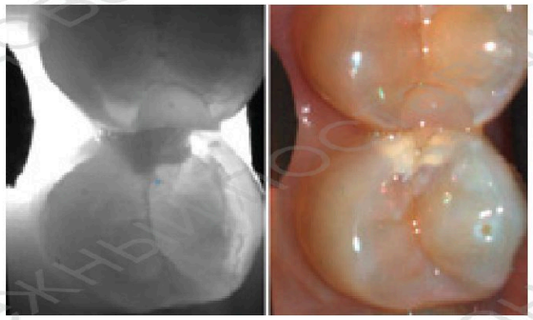
Scan a full dental arch in under a minute. Send scans to the lab of your choice or use them in your own digital workflows. Document your patients' teeth for future use and comparisons.



### 2D snapshot

Use the scanner as an intraoral camera and capture 2D snapshots with natural colours. Engage patients, document existing conditions or consult with colleagues.





### Cariology

Detect caries and cracks in their early stages with the **Planmeca Cariosity™** tip.



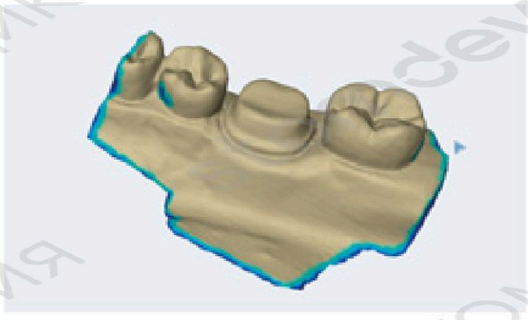
### Orthodontics

Scan full arches for digital orthodontic treatment planning. Combine intraoral scan data with a CBCT image to see the root movements. Follow treatment progress and results.



### Implantology

Scan implant positions with the help of scan bodies for abutment design. Scan abutments to create crowns and bridges on top of them. Combine scan data with a CBCT image for digital implant planning and surgical guide design.



### Prosthodontics

Get instant feedback: check your preparations from the computer screen. Scan preparations and abutments to create crowns, inlays and onlays, veneers and bridges. Scan temporary restorations and wax-ups to create final designs. Scan full arches to create dental splints, removable prostheses and other prosthetic indications.



### Maxillofacial surgery

Combine intraoral scans with CBCT data for treatment planning and manufacturing prostheses.

Take advantage of the scanner's compatibility with various orthodontic systems: See the constantly growing list of all the orthodontic solution providers at **planmeca.com/orthocompliance**.



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# Smart scanning software

## Easy and efficient scanning with Planmeca Emerald™ S

*The intuitive **Planmeca Romexis®** scanning software guarantees a smooth scanning experience at all times. With open export and import options, regular updates, and constant new features, the software is always at the cutting edge of intraoral scanning.*



### Intuitive usability

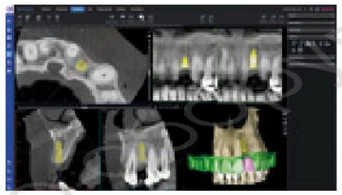
The scanning software of **Planmeca Emerald™ S** is effortless and intuitive to use – offering flexibility to match your preferred workflows.

### Open software

The scanning software is truly open and allows you to export digital impressions to third parties. You can easily send your scans to dental laboratories using our cloud service.

### High quality scans

Planmeca Emerald S and **Planmeca Romexis®** provide guaranteed accuracy – with clear margin lines and beautiful colours due to advanced scanning technology and HighRes pictures that can be superimposed onto scans.



### All-in-one software

There is no need for time-consuming data imports and exports – our Planmeca Romexis all-in-one software allows intraoral scans to be combined with CBCT images for e.g. implant planning and designing guides.

## Smart scanning modules for different needs

*Intraoral scanning can be carried out in two separate software modules – depending on the user's needs.*

### Planmeca PlanCAD® Easy

The **Planmeca PlanCAD® Easy** module offers a smooth and efficient workflow for intraoral scanning and chairside CAD/CAM. The simple workflow for manufacturing high-quality prosthetic restorations consists of scanning with **Planmeca Emerald™ S**, designing with Planmeca PlanCAD Easy and milling with the **Planmeca PlanMill® 40 S** or **Planmeca PlanMill® 30 S** milling unit.



### Planmeca Romexis® Model Analyser

The **Romexis® Model Analyser** module provides a great variety of tools you can use directly after the scanning. With the module, you can easily send the scans to dental laboratories, analyse and measure the scans, compare the scans and follow up treatment results, and create bases for 3D printable models.





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Planmeca Oy designs and manufactures a full line of industry-leading dental equipment, including 3D and 2D imaging devices, CAD/CAM solutions, dental care units and software. Planmeca Oy, the parent company of the Finnish Planmeca Group, is strongly committed to better care through innovation, and it is the largest privately held company in the field.

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