# Accurate Diagnostics, **Safer Imaging**

Planmeca has an alternative imaging protocol that is **more accurate** and **safer than traditional methods** resulting in **better patient care.** 



Arrive at the right diagnosis sooner, potentially saving more teeth



Improve treatment outcomes and increase confidence in treatment planning

UP TO 85% LESS RADIATION

Less patient radiation and improved overall patient care

## CBCT Technology From Planmeca: **The Better Option**

Planmeca offers innovation not found in other CBCT imaging systems. Two in particular are causing a paradigm shift in general dentistry.



Our ability to take True Extraoral Bitewings that are:



Planmeca's Ultra Low Dose™ (ULD) CBCT Imaging:

Half the radiation dose compared to a 4 bitewing series<sup>1</sup>

Clinically proven as accurate as intraoral bitewings in detecting carious lesions<sup>2,6</sup>

Reduces radiation up to 77% without statistical reduction in image quality<sup>3</sup>

Gives access to a 360 degree view of the teeth



Let's examine the imaging protocol in 2D and 3D, paying special attention to the amount of radiation — as measured in microsieverts (µSv) — produced at each step along the way and altogether.

Protocol

3D

Planmeca

hSv

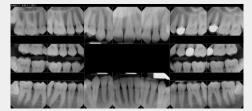
189

4

Radiation:

Total F





### 2D Extraoral and Intraoral Imaging Protocol

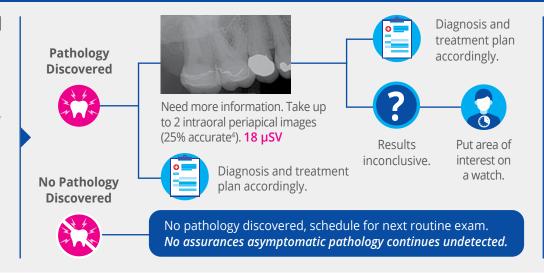
2D pan **20 μSv**, plus 4 intraoral bitewings **24 μSv** 

Radiographs provide a two-dimensional image of a three-dimensional object. Relationship of the surrounding anatomical structures cannot be assessed accurately.

## 2D Traditional Intraoral Imaging Protocol

18 FMX **171 μSv** 

Produces flat view of teeth with limited view of apices leads to loss of spatial information and multiple overlapping areas.









#### Planmeca 3D Imaging Protocol

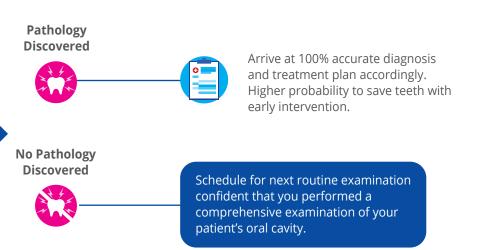
3D ULD ø11x8 cm image of both jaws 9 µSv

Produces a 360-degree view of all the dentition, the maxilla and mandible, the airway, and sinus floor. Uncovers incidental findings in up to 50% of scans.<sup>5</sup>

### Planmeca True Extraoral Bitewings

Extraoral bitewings 14 µSv

Clinically proven to be as effective at opening interproximal contacts<sup>2</sup> and better at detecting carious lesions<sup>2</sup> and bone loss<sup>6</sup> compared to an introoral bitewing series and provides view of apices of teeth on upper and lower.









Order a 3D PA ø4x5 cm, normal resolution ULD at 10 µSv.

Arrive at 100% accurate diagnosis and treatment plan accordingly.





Practices with Planmeca 3D imaging technology can improve the quality of care and safety of their patients. They can arrive at the right diagnosis earlier, practice more minimally invasive dentistry, saving patients time, money and teeth — everyone wins with 3D imaging from Planmeca!

To learn more about Planmeca technology and the solutions we bring to modern dental practices, visit **info.planmecausa.com/ultra-low-dose** 

#### PLANMECA

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#### **SOURCES**

- 1. Planmeca effective patient radiation doses D0011311-B. on file.
- 2. According to a study published by the University of Minnesota (doi.org/10.1016/j.adaj.2017.08.032)
- $3. \ \ According to \ "Dosimetry of Orthodontic Diagnostic FOVs Using Low Dose CBCT Protocol" by JB Ludlow and J Koivisto.$
- 4. According to a study published by the International Endodontic Journal (doi:10.1111/j.1365-2591.2008.01538.x)
- 5. Oral Surg Oral Med Oral Pathol Oral Radiol (doi: 10.1016/j.oooo.2014.01.002. Epub 2014 Jan 9)
- 6. According to a study published by the American Dental Association (doi.org/10.1016/j.adaj.2017.08.032)