Orthophos SL Low Dose mode: Indication-based 3D X-ray technology with the same dose level as 2D images

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**ABOUT DENTSPLY SIRONA:**

Dentsply Sirona is the world’s largest manufacturer of professional dental products and technologies, with a 130-year history of innovation and service to the dental industry and patients worldwide. Dentsply Sirona develops, manufactures, and markets a comprehensive solutions offering including dental and oral health products as well as other consumable medical devices under a strong portfolio of world class brands. As  
The Dental Solutions Company, Dentsply Sirona’s products provide innovative, high-quality and effective solutions to advance patient care and deliver better, safer and faster dentistry. Dentsply Sirona’s global headquarters is located in York, Pennsylvania, and the international headquarters is based in Salzburg, Austria. The company’s shares are listed in the United States on NASDAQ under the symbol XRAY.

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Press release

**Dentsply Sirona Imaging has once again enhanced the versatility of its Orthophos SL. In addition to the existing HD and SD modes, the Low Dose mode gives users access to 3D information for specific clinical problems with a significantly reduced dose.**

**Bensheim/Salzburg, June 22, 2017.** The versatile complete X-ray solution Orthophos SL from Dentsply Sirona Imaging now includes a new function. With immediate effect, the X-ray dose for 3D images for specific clinical indications can be reduced to a level previously only associated with 2D images: Just 3μSv are required, for example, to localize a displaced canine tooth. Furthermore, the Low Dose is suitable for checking implant positions, performing sinus analyses and determining the position of teeth. In particular, this expands the application area of this X-ray all-rounder in the fields of implantology, orthodontics and for dentists who treat a large number of children – and let us not forget SICAT Air users who use 3D images to display upper airways and treat obstructive sleep apnea.

**Optimized radiation dose for every indication**

With the three different settings – High Definition (HD), Standard Definition (SD) and Low Dose – the Orthophos SL can be ideally set to what best suits the patient's needs regarding the required combination of image quality, volume and dose. While the HD mode provides images with maximum sharpness for visualizing even the finest structures, the SD mode with a medium radiation dose covers common indications. As a new addition, users can clarify clinical issues for which a significantly reduced dose is sufficient with the Low Dose function. This effect is achieved by using intelligent filters whereby, among other things, dense structures such as bones are retained for greater diagnostic reliability.

**Low Dose as a simple update**

The 2D/3D X-ray all-rounder Orthophos SL was presented for the first time at the IDS 2015. Its innovative features including DCS (Direct Conversion Sensor) and Sharp Layer (SL) technology soon proved to be a hit with specialists and users alike and it was only a few months before the 1000th device left the Dentsply Sirona production line in Bensheim. Orthophos SL devices, which are currently available on the market, already feature the Low Dose filter; this means that they can be upgraded without exception. Enhancement occurs free of charge with a digital firmware update to include the new Low Dose mode without additional hardware.

**IMAGES**



*Fig. 1: Orthophos SL Low Dose image (5 cm x 5 cm, 3 µSv) to determine the position of a displaced canine tooth.*



*Fig. 2: Orthophos SL with innovative imaging technology ensures the best image quality for 2D and 3D X-rays.*