Factsheet

Primescan – a technological milestone

Press Contact

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**About Dentsply Sirona:**   
Dentsply Sirona is the world’s largest manufacturer of professional dental products and technologies, with over a century 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 dental care. 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.

Visit [www.dentsplysirona.com](https://www.globenewswire.com/Tracker?data=H97WicgzG_xFpTdBIif_-p2x1L1RbXqW3Uq-ulnMhNJ3BMN94ZMBad6NkshrN74sA1UXTZDP2YWPaV1yUwIYAWYuwTJlwnjChzzdpgGH3w8=) for more information about Dentsply Sirona and its products.

**With Primescan, Dentsply Sirona introduces an intraoral scanner to the market, and, with its significant product features, achieves outstanding results and takes digital impressioning to a higher level of quality.**

**Speed:** With Primescan, you can produce scans amazingly fast. You can capture an entire upper jaw in well under 30 seconds, and a full jaw scan in less than a minute. During the scanning process, the dynamic lens completes more than 10 movements per second, thereby enabling the "Dynamic Depth Scan." The result is more than 1 million 3-D points per second. This is thanks to Intelligent Processing, which filters, processes and compresses the high volume of data so that models can be calculated faster.

**Accuracy:** The high-precision Smart Pixel Sensor captures the data at an extremely high resolution and assesses the contrast in each pixel. For every 3-D image, Primescan consolidates more than 50,000 images per second, thereby offering a level of scanning precision that has never been achieved before. A new technology, for which a patent application has been submitted, in the form of optical high frequency analysis is used to calculate the 3-D points, resulting in an increased level of accuracy. This is further supported by an optical design that has been optimized for the measuring principle used and by the mechanical robustness of the optics.

**Easy to use:** Primescan enables a flexible, intuitive and very simple scan procedure, enabling faster access to tooth surfaces without the need for signifcant tilting. The captured images are calculated in a flash and put together without any visible scan interruptions.

**A great feeling:** Primescan is an intraoral scanner that can be subjected to all necessary hygienic reprocessing (wipe disinfection, autoclaving, hot air sterilization, high-level disinfection). This is made possible by three sleeve concepts (stainless steel sleeve, stainless steel sleeve with disposable window, disposable sleeves).

**Facts & Figures**

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| *Size:* | 50.9 x 58.8 x 253 mm  *Weight* of approx. 525 g (stainless steel sleeve) |
| *Field of View:* | 16 x 16 mm |
| *Technology* | Realistic representation of the 3D model (color, surface) |
|  | Perfect focus up to a depth of 20 mm |
|  | One million 3D points captured per second |
|  | New surface acquisition technology for which a patent application has been submitted (high-frequency contrast analysis) |
|  | Primescan supports relative movements between the tip of the camera and the surface of the tooth, from 0 mm/s to 25 mm/s |
|  | Consolidation of over 50,000 images per second |
|  | Continuous fog-free working due to the heated exit window |
|  | Motion detector: The camera switches on as soon as you remove the device from its holder |
| *Operation* | Touchscreen operation  with a hygienic, optimally designed touchpad (with the option of trackball) |
|  | The screen can be turned and tilted to achieve the best position for viewing the scanning process |
|  | Balance: The pivotal point of the scanner is positioned so that it can be held like an instrument |
|  | Scanning is possible at an angle to the tooth of between 5° and 85° |
|  | Various materials can be scanned: Amalgam, gold and other metals; translucent materials |
| *Hygiene* | Perfectly hygienic due to the smooth surfaces |
|  | Removable and interchangeable sleeves of various materials, with optimal hygienic properties (wipe disinfection, autoclaving, hot air sterilization, high-level disinfection)  Fan-free design, for the prevention of inaccessible areas |