

CEREC – NEW PRODUCTS 2009

Seeing CAD/CAM in a new light.



Precision and simplicity redefined.

Optical impressions are your passport to state-of-the-art dental restorations. The new CEREC AC acquisition centre makes CAD/CAM dentistry even more precise, efficient and user-friendly than ever. The innovative CEREC Bluecam and the new CEREC 3D software expand your spectrum of clinical indications – and set new standards in terms of precision. In future CEREC Connect will allow you to establish a direct link to external dental laboratories. **It will be a great day. With Sirona.**



CEREC Bluecam

Seeing CAD/CAM in a new light.

The new CEREC AC with the CEREC Bluecam captures highly detailed images using a powerful blue light-emitting diode (LED). Rapid, easy imaging results in a quantum leap in CAD/CAM precision, clinical reliability and efficiency.

Sharpen your focus.

The high-precision lens system of the CEREC Bluecam sets a new standard in measurement accuracy and delivers an unprecedented level of precision.^[1] The high-performance diode emits blue light with a short wavelength. The resulting optical impressions are extremely accurate. This applies to single-tooth as well as multiple images.

Outstanding depth of field

You can either place the CEREC Bluecam with the camera support directly on the tooth, or capture the images leaving a small clearance from the surface. In both cases the parallel light beam ensures an optimum depth of field as well as a high level of handling flexibility. The versatile CEREC Bluecam allows you to acquire optical impressions in near inaccessible areas of the oral cavity – quickly and simply.

Enhanced preparation margin precision

Resulting from its improved depth of field, the CEREC Bluecam generates high-precision images of the preparation margins – a crucial factor for the quality of the restoration. This would be unthinkable without the short-wavelength blue light.

^[1] The result of a study carried out by Professor Dr. Mehl (Zurich University, 2008): measuring depth accuracy of up to 19 µm.

Create optical impressions in the shortest possible time.

Speed is the essence. In the automatic capture mode the CEREC Bluecam is capable of acquiring optical impressions of a quadrant in less than one minute. Optical impressions of the antagonists take just a few seconds.

Improved visibility

The blue light emitted by the CEREC Bluecam illuminates the treatment site perfectly and allows you to capture near inaccessible areas with the utmost precision.

Automatic image capture

The camera automatically detects the right moment to trigger the exposure. All you have to do is move the CEREC Bluecam step by step over the relevant area. In this way you can acquire whole quadrants in a single streamlined operation.

Shake-free images

The built-in shake detection system, combined with the short capture time, ensures that images are acquired only when the camera is absolutely still. The CEREC 3D software automatically eliminates sub-standard images.

Compact camera

The CEREC Bluecam is based on the design of the highly successful CEREC camera, which has proved itself many thousands of times in practical application. The compact dimensions of CEREC Bluecam give you easy access to posterior teeth. With the help of the CEREC camera support you can place the CEREC Bluecam directly on the teeth and hence maintain the correct clearance for optimum optical impressions.

CEREC Optispray – precision at the touch of a button

A prerequisite for precise imaging is a non-reflective surface. Until recently CEREC users have had to powder the preparation site – a laborious process. Now this task can be performed at the touch of a button. CEREC Optispray is quick, effective and hygienic. The homogeneous coating enhances the imaging capabilities of the CEREC Bluecam, especially with regard to the preparation margins. Best of all: CEREC Optispray is water-soluble and easy to remove with the help of the SPRAYVIT syringe.



Four-unit chairside bridges.

Expand your treatment spectrum to include long-term temporary bridges, designed, produced and inserted chairside in one treatment sitting. In this context the CEREC Bluecam and the new CEREC 3D software offer an unrivalled combination. The software superimposes separate images in order to produce accurate optical impressions not only of single teeth, but also quadrants. The resulting 3D models provide the ideal basis for creating veneers, inlays, onlays and crowns, as well as long-term temporary bridges with up to four units.



Jaw model

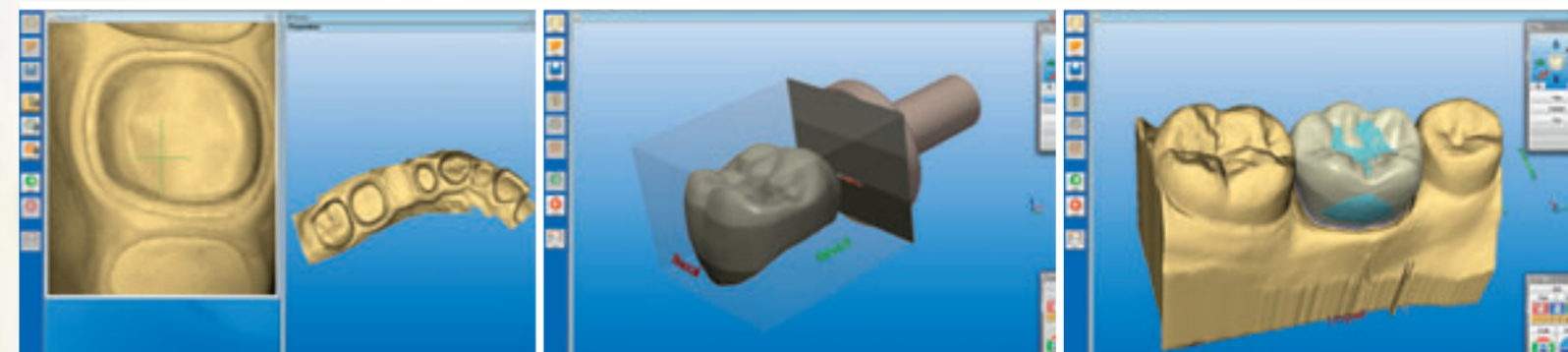
Optical impressions of entire quadrants
During the capture process the images are displayed successively on the monitor in an enhanced 3D preview window. The images are superimposed automatically, regardless of the order in which the images were acquired. You can tell at a glance which areas you have already covered.

Crown placement in block

Block visualization for anterior and posterior crowns
The polychromatic ("PC") CEREC Blocs are specially layered in order to resemble the enamel, dentine and cervix of a natural tooth. They are the ideal choice for highly aesthetic chairside crowns, inlays and veneers. The software can now visualize the colour shading directly on the restoration model within the polychromatic block. This enables you to evaluate the shading effects and make any necessary adjustments.

Occlusal surface

Minimal wall thickness
The CEREC 3D software already boasts a sophisticated biogeneric model function for the occlusal surfaces. In addition, the software now warns the user in the event that the wall thickness of the ceramic restoration falls below the minimum limit. The critical areas are clearly indicated on the model, thus allowing you to make the necessary adjustments with the help of the design tools.



Concentrate on your patients – not on technology.

The CEREC AC acquisition centre has been designed to interface optimally within your accustomed practice workflow. The CEREC Bluecam, a high-performance PC and innovative 3D software are only some of the user-friendly details. There is also the introduction of both an optional uninterrupted power supply and wireless link to ensure CEREC AC adapts to your individual mode of working. In addition, it offers convincing benefits in terms of ergonomics, hygiene and effective patient care.



Uninterrupted power supply (UPS)

The new CEREC AC can be disconnected temporarily from the mains power supply. This allows the acquisition centre to be wheeled easily from room to room even during the milling process. Data can also not be lost during a brief power cut.

Data integration

The CEREC AC forms an integral part of the practice network and can communicate via wireless LAN, USB and CD-ROM. This ensures that you have all the necessary information including patient data at your fingertips when you need it most – during the treatment process.



Discover your direct link to dental laboratories.

When you opt for CEREC you can capitalize on the skills and expertise of external dental technicians. Via CEREC Connect^[1] you can establish a direct link with dental labs of your choice. In other words, you will be in a position to offer a broader spectrum of restorations – faster and easier than ever before.

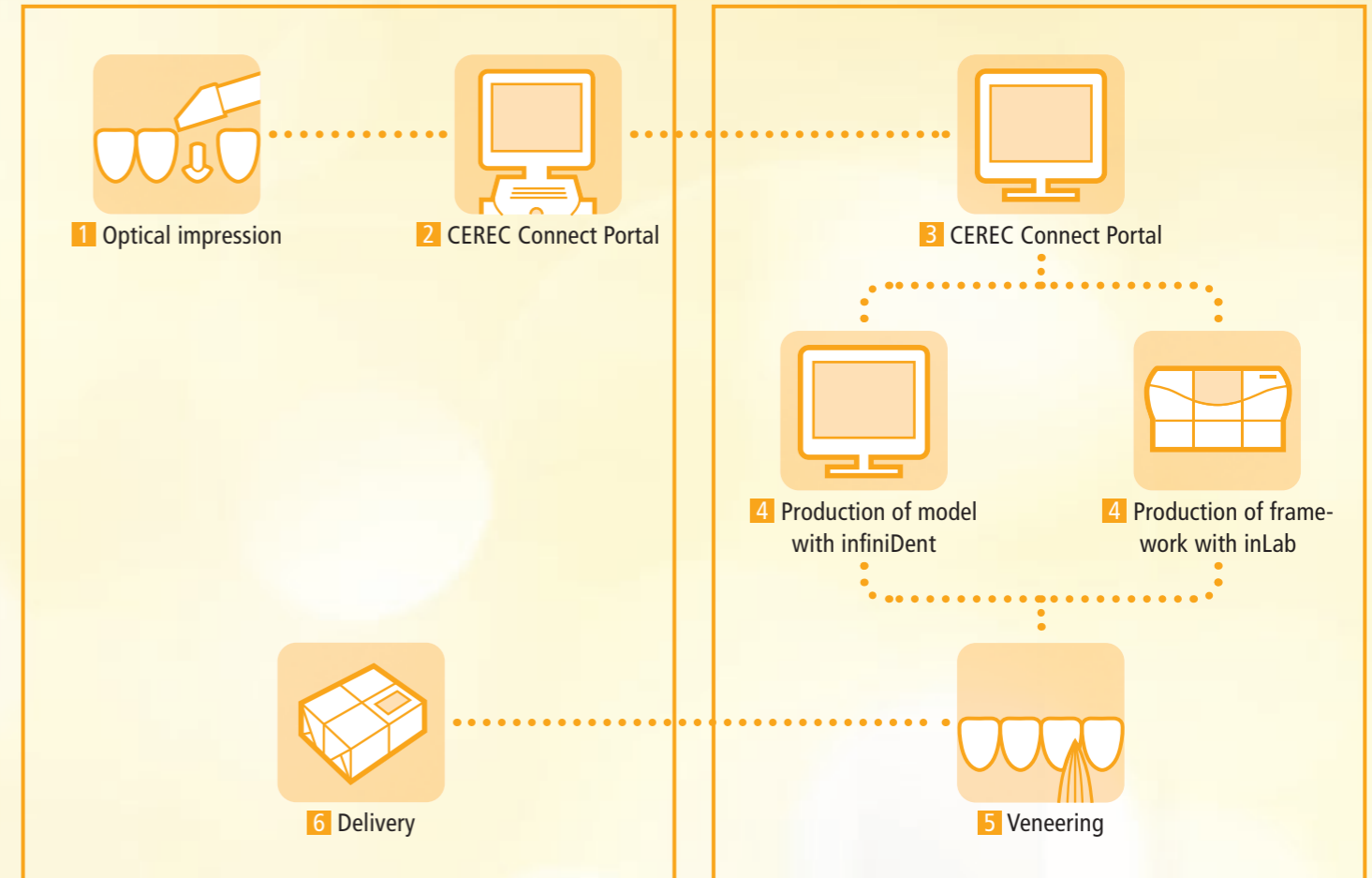
Close collaboration with dental laboratories is a logical and valuable option with regard to aesthetic anterior crowns, all-ceramic lithium disilicate crowns, as well as zirconium oxide bridges (both temporary and permanent). CEREC Connect allows you to dispense with conventional impressions, which many patients find unpleasant.

Once the optical impression has been captured using the CEREC Bluecam, it is computed into a virtual 3D model. This is then uploaded to your chosen inLab laboratory via the CEREC Connect web portal. Many of the potential errors inherent in conventional impressions are thus eliminated. On the basis of your data the laboratory produces a physical model and creates the final restoration. You benefit from a broader range of indications, reduced costs, lab restoration precision and shorter turnaround times. Your patients profit from the comfort, convenience and speed of capturing digital impressions.



Practice

Laboratory



^[1] Not yet available in all countries.



CAD/CAM SYSTEMS | INSTRUMENTS | HYGIENE SYSTEMS | TREATMENT CENTERS | IMAGING SYSTEMS

SIRONA – UNIQUE WORLDWIDE SYSTEMS EXPERTISE IN DENTAL EQUIPMENT PRODUCTS

Sirona develops and manufactures a comprehensive range of dental equipment, including CAD/CAM Systems for dental practices (CEREC) and laboratories (inLab), Instruments and Hygiene Systems, Treatment Centers and Imaging Systems. Sirona manufactures high technology products that guarantee ease of use and a high return on investment – for the good of your practice and for the benefit of your patients. In this way, you can approach every challenge that you face, confident in the knowledge that: **It will be a great day. With Sirona.**

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