

# Dental Technology at Core Dental Group - CEREC, Digital Scanning and Advanced Equipment

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## Description:

# Dental Technology at Core Dental Group - CEREC, Digital Scanning and Advanced Equipment  
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## Details:

Modern dentistry has been transformed by technology. Treatments that once required multiple appointments, messy impressions, and weeks of waiting can now be completed in a single visit. Scans that once required conventional X-rays now produce detailed three-dimensional images with a fraction of the radiation. And patients who were once anxious about an uncertain outcome can preview their new smile digitally before any treatment begins.

At Core Dental Group, we invest in the technology that makes a genuine difference to the patient experience and clinical outcomes - across all seven of our Melbourne locations, with each practice equipped to deliver high-quality, efficient, and comfortable care.

### ## CEREC Same-Day Crowns

One of the most significant advances in modern dentistry is CEREC technology - Chairside Economical Restoration of Esthetic Ceramics. CEREC allows us to design, mill, and fit a high-quality ceramic crown in a single appointment, eliminating the traditional process of taking impressions, sending them to an external laboratory, fitting a temporary crown, and returning weeks later for the permanent restoration.

With CEREC, the process is:

1. We take a precise digital scan of your tooth - no goopy impressions required
2. Our dentist designs your custom crown on-screen, refining the shape, size, and bite in real time
3. The crown is milled on-site from a solid block of high-quality ceramic - typically in around 15 minutes
4. The crown is fitted, adjusted, and polished in the same appointment

The result is a strong, natural-looking, precisely fitted ceramic crown - completed in the time it might otherwise take to drive to a laboratory and back.

\*\*CEREC is available at:\*\* - \*\*South Melbourne\*\* - 87 Market St | (03) 9114 7700 - \*\*Caroline Springs\*\* - 224-226 Caroline Springs Blvd | (03) 9363 7888 - \*\*Epping\*\* - Tenancy 3B/230 Cooper St | (03) 9401 4622

### ## CBCT 3D Imaging - Three-Dimensional Diagnosis

Cone Beam Computed Tomography (CBCT) is a specialised form of imaging that produces detailed three-dimensional images of teeth, bone, soft tissue, nerve pathways, and surrounding structures. It provides information that conventional two-dimensional X-rays simply cannot capture.

CBCT imaging is particularly valuable for: - Dental implant planning - assessing bone volume, density, and the exact position of nerves and sinuses - Complex root canal treatment - visualising root anatomy in three dimensions - Orthodontic assessment - evaluating jaw relationships, tooth positions, and skeletal structure - Diagnosis of conditions that are not visible on conventional radiographs - Surgical planning for complex extractions and bone grafting procedures

CBCT produces significantly more information than conventional X-rays with a controlled and clinically appropriate radiation dose.

**\*\*CBCT 3D imaging is available at:\*\* - **\*\*Caroline Springs\*\*** - the only Core Dental location with on-site CBCT (03) 9363 7888**

### ## iTero Intraoral Scanners and Digital Scanning

Across all Core Dental locations, we have moved away from traditional dental impressions towards digital intraoral scanning. Using a small wand-shaped device, we capture a precise three-dimensional digital model of your teeth and bite in minutes - no trays, no impression material, no gagging.

Digital scans are used for: - Invisalign treatment planning - iTero scanners integrate directly with Invisalign's ClinCheck software, allowing you to preview your tooth movement before committing to treatment - Crown and bridge fabrication - precise digital models for CEREC and laboratory-based restorations - Monitoring changes in tooth wear, gum recession, and bite over time - Fabricating sports mouthguards, whitening trays, and sleep apnoea devices

All Core Dental locations are equipped with digital intraoral scanning technology. No more goopy impressions.

### ## Digital Smile Design and Smile Preview

At our Caroline Springs location, we offer digital smile design - a process that allows you to preview the outcome of cosmetic dental treatment before any work begins.

Using photographs and digital imaging software, our dentists can show you a realistic preview of how your smile could look after veneers, teeth whitening, contouring, or a combination of cosmetic treatments. You can see the proposed changes, provide feedback, and refine the design before any clinical decisions are made.

This technology is particularly valuable for patients considering smile makeovers, veneers, or significant cosmetic treatment - helping ensure that the final result aligns with your expectations and vision.

**\*\*Digital smile design and preview is available at:\*\* - **\*\*Caroline Springs\*\*** - 224-226 Caroline Springs Blvd | (03) 9363 7888**

### ## Zoom Teeth Whitening

Zoom professional teeth whitening is one of the most popular cosmetic dental treatments available - and for good reason. In a single appointment, Zoom whitening can lighten teeth by several shades, using a hydrogen peroxide gel activated by a specially designed light.

Zoom whitening is available across most Core Dental locations, and we also offer custom take-home whitening kits for patients who prefer to whiten at their own pace.

### ## Digital Radiography

All Core Dental locations use digital radiography (digital X-rays) rather than conventional film-based X-rays. Digital radiography offers several advantages:

- Instant image capture - no waiting for film development - Significantly reduced radiation exposure compared to conventional X-rays - Images can be enhanced, magnified, and shared electronically - No chemical processing required - better for the environment - Easy storage and retrieval within your patient record

Digital X-rays are a standard part of every routine check-up and examination at Core Dental Group.

### ## Intraoral Cameras

Intraoral cameras are small, pen-sized cameras that allow your dentist to show you what they can see inside your mouth - in real time, on a chairside screen. What was once invisible to patients (cracks, decay, gum changes, wear patterns) becomes clearly visible and easily understood.

Intraoral cameras are available at all Core Dental locations. They are a powerful tool for patient education and for building a shared understanding between dentist and patient.

### ## Laser Dentistry

Laser dentistry uses precisely targeted light energy to treat soft tissue conditions with minimal bleeding, reduced post-operative discomfort, and faster healing compared to conventional surgical approaches. Laser treatment is available for gum contouring, treating gum disease, and a range of other soft tissue procedures.

**\*\*Laser dentistry is available at: - \*\*Epping\*\* - Tenancy 3B/230 Cooper St | (03) 9401 4622**

### ## Technology Across the Network

| Technology | Southbank | South Melbourne | Caroline Springs | Carrum Downs | Epping | Wyndham | Berwick | |---|---|---|---|---|---|---|---| | Digital X-rays | Yes | Yes | Yes | Yes | Yes | Yes | Yes | | Digital intraoral scanning | Yes | Yes | Yes | Yes | Yes | Yes | Yes | | Intraoral cameras | Yes | Yes | Yes | Yes | Yes | Yes | Yes | | CEREC same-day crowns | - | Yes | Yes | - | Yes | - | - | | CBCT 3D imaging | - | - | Yes | - | - | - | - | | Digital smile design | - | - | Yes | - | - | - | - | | Laser dentistry | - | - | - | - | - | Yes | - | - | | Zoom whitening | - | Yes | Yes | Yes | Yes | Yes | Yes |

### ## Investing in What Matters

Technology for its own sake is not what we are about. Every piece of equipment we invest in is there because it improves patient outcomes, reduces discomfort, saves time, or helps our clinicians make better decisions.

From the comfort of a digital scan to the precision of CBCT imaging and the convenience of a same-day crown, Core Dental Group's technology investments are all in service of one goal: the best possible dental experience and outcome for every patient we see.

To book an appointment or ask about a specific technology at your nearest location, call **\*\*13 13 16\*\*** or visit **\*\*coredental.com.au\*\***.