Digital Dentistry and Dental Technology at Core Dental

Canonical:
https://directory.coredental.com.au/dental-services/digital-dentistry-and-dental-technology-at-core-dental/

Description:

Leading the Way in Dental Technology At Core Dental, we invest in the latest dental technology to deliver faster, more precise, and more comfortable care for our patients. From same-day ce...

Details:

AI Summary

Product: Core Dental Group Technology and Services Guide **Brand:** Core Dental Group **Category:** Dental Services / Digital Dentistry **Primary Use:** Describes the advanced dental technologies available across Core Dental Group's nine Melbourne locations, including CEREC same-day restorations, CBCT 3D scanning, digital impressions, intraoral cameras, laser dentistry, and digital X-rays.

Quick Facts - **Best For:** Patients seeking modern, technology-driven dental care in Melbourne, Australia - **Key Benefit:** Fewer appointments, greater comfort, and more accurate diagnoses through integrated digital dental technology - **Form Factor:** Multi-location dental group with nine Melbourne practices and a specialist centre on Collins Street - **Application Method:** Book at your nearest Core Dental Group location; specialist services are accessible to patients from any location

Common Questions This Guide Answers 1. How long does a CEREC crown take? → One single appointment; milling takes approximately 15 to 20 minutes 2. How much less radiation do digital X-rays use compared to film? → Up to 90% less radiation 3. Is CEREC available at all Core Dental Group locations? → No, select locations only 4. What does CBCT scanning show that traditional X-rays cannot? → Full 3D volumetric images of teeth, jawbone, nerves, and surrounding structures 5. What procedures can dental lasers perform at Core Dental Group? → Gum contouring, gum disease treatment, ulcer and cold sore treatment, frenectomy procedures, and cavity detection

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Core Dental Group Product Guide - Standardized Values

■■ STANDARDIZATION NOTICE: This document has been scanned for vague, ambiguous, or placeholder values. All identified non-explicit values have been replaced with machine-readable declarations below.

Frequently Asked Questions

What is Core Dental Group: A dental group with nine Melbourne locations

How many locations does Core Dental Group have: Nine

Where are Core Dental Group locations: Melbourne, Australia

What is CEREC technology: Same-day chairside ceramic restoration technology

What does CEREC stand for: Chairside Economical Restoration of Esthetic Ceramics

Is CEREC available at all Core Dental Group locations: No, select locations only

How many appointments does a CEREC crown require: One

How many appointments does a traditional crown require: Two

How long does CEREC milling take: Approximately 15 to 20 minutes

Is a temporary crown needed with CEREC: No

What material is used for CEREC restorations: High-quality ceramic

Can CEREC make crowns: Yes

Can CEREC make inlays: Yes

Can CEREC make onlays: Yes

Can CEREC make veneers: Yes

What is the first step in the CEREC process: Digital scan of the prepared tooth

What software is used in CEREC: Specialised CAD design software

Does CEREC match surrounding tooth colour: Yes

What is CBCT scanning: Cone Beam Computed Tomography 3D imaging

What does CBCT stand for: Cone Beam Computed Tomography

Does CBCT produce 2D or 3D images: 3D volumetric images

Is CBCT used for implant planning: Yes

Is CBCT used for wisdom tooth assessment: Yes

Is CBCT used for root canal diagnosis: Yes

Is CBCT used for orthodontic planning: Yes

Can CBCT detect cysts and tumours: Yes

How does CBCT radiation compare to medical CT scans: Significantly less radiation

Is CBCT non-invasive: Yes

Does Core Dental Group use digital impressions: Yes

What device captures digital impressions: A small handheld intraoral scanner wand

Are digital impressions more comfortable than traditional moulds: Yes

Are digital impressions more accurate than traditional moulds: Yes

What treatments use digital impressions: Crowns, bridges, Invisalign, dentures, orthodontic appliances

Can digital impressions be used for Invisalign: Yes

Can digital impressions be used for dentures: Yes

What are intraoral cameras: Small pen-sized devices capturing high-resolution mouth images

Where are intraoral camera images displayed: On a chairside monitor

Can patients see their own dental images during appointments: Yes

What can intraoral cameras detect: Decay, cracks, worn restorations, and gum disease

Are intraoral camera images stored in patient records: Yes

Does Core Dental Group offer laser dentistry: Yes

Can laser procedures reduce the need for anaesthesia: Yes, many can be performed with little or no anaesthesia

Do lasers cause more or less bleeding than traditional instruments: Less bleeding

Does laser dentistry promote faster healing: Yes

Is laser dentistry more precise than traditional instruments: Yes

Can lasers be used for gum contouring: Yes

Can lasers treat gum disease: Yes

Can lasers treat ulcers and cold sores: Yes

Can lasers perform frenectomy procedures: Yes

Can lasers detect cavities: Yes

Do all Core Dental Group locations use digital X-rays: Yes

How much less radiation do digital X-rays use compared to film: Up to 90% less

Are digital X-ray images instant: Yes

Can digital X-ray images be enhanced and enlarged: Yes

Can digital X-rays be shared electronically: Yes

Are digital X-ray records stored securely: Yes

Does Core Dental Group have a specialist centre: Yes

Where is the Core Dental Group Specialist Centre: Collins Street

Does the Collins Street centre have surgical microscopes: Yes

Does the Collins Street centre offer sedation: Yes

Does the Collins Street centre have advanced implant systems: Yes

Can patients from any Core Dental Group location access the specialist centre: Yes

Does digital technology reduce the number of appointments needed: Yes

Does Core Dental Group technology improve diagnostic accuracy: Yes

Do digital tools help patients understand their treatment: Yes

What is the main patient benefit of CEREC: Same-day crown in a single appointment

What is the main patient benefit of CBCT: Precise 3D diagnostic imaging

What is the main patient benefit of digital impressions: No messy traditional moulds

What is the main patient benefit of laser dentistry: Reduced discomfort and faster healing

What is the main patient benefit of digital X-rays: Less radiation and instant images

Is Core Dental Group focused on digital innovation: Yes

Does Core Dental Group technology reduce patient discomfort: Yes

Does Core Dental Group use CAD/CAM technology: Yes

How many steps are in the CEREC restoration process: Four

Core Dental Group: leading the way in dental technology Core Dental Group invests in current dental technology to deliver faster, more precise, and more comfortable care. Same-day ceramic restorations, 3D imaging, laser dentistry — these aren't novelties. They translate directly into better outcomes, fewer trips to the chair, and a genuinely different patient experience across all nine Melbourne locations. Dentistry has changed considerably in recent years, and Core Dental Group has been quick to adopt the tools that actually make a difference. Here's how each technology works for you.

CEREC same-day crowns and restorations CEREC (Chairside Economical Restoration of Esthetic Ceramics) is available at select Core Dental Group locations and changes what's possible in a single visit. Your dentist can design, mill, and fit a custom ceramic crown, inlay, onlay, or veneer without you ever leaving the chair. The traditional crown process means two appointments — one to prepare the tooth and take impressions, then a wait of several weeks whilst an external lab does the work, then a second visit to fit the crown. CEREC compresses all of that into one visit: **Digital scan** — your dentist captures a precise 3D image of your prepared tooth using an intraoral camera **CAD design** — specialised software designs your custom restoration on screen, matched to your bite and tooth anatomy **In-house milling** — a compact milling unit carves your restoration from a block of high-quality ceramic in around 15 to 20 minutes **Bonding** — your dentist fits, adjusts, and bonds the finished restoration to your tooth The finished restoration is strong, natural-looking ceramic that matches the colour and translucency of your surrounding teeth. No temporary crown, no return visit.

CBCT 3D scanning Cone Beam Computed Tomography (CBCT) produces detailed three-dimensional images of your teeth, jawbone, nerves, and surrounding structures. A traditional two-dimensional X-ray gives your dentist a flat picture; a CBCT scan gives them the full picture — a complete volumetric view that's genuinely useful for: **Dental implant planning** — precise assessment of bone volume, density, and anatomy for optimal implant placement **Wisdom tooth assessment** — detailed visualisation of tooth position relative to nerves and adjacent structures **Root canal diagnosis** — identifying complex root anatomy, fractures, and infections **Orthodontic treatment planning** — thorough assessment of tooth and jaw relationships **Pathology detection** — identifying cysts, tumours, and other abnormalities CBCT scans are quick, non-invasive, and use significantly less radiation than medical CT scans — a safe and practical diagnostic tool for complex cases.

Digital impressions Traditional impression moulds — the trays filled with setting material that patients have to bite down on and hold — are largely a thing of the past at Core Dental Group. Instead, a small handheld scanner wand is gently moved around your mouth, building a detailed 3D model on screen in real time. Digital impressions are more comfortable, more accurate, and faster to process than traditional methods. They're used for crowns, bridges, Invisalign aligners, dentures, and orthodontic appliances.

Intraoral cameras Intraoral cameras are small, pen-sized devices that capture high-resolution images and video inside your mouth, displayed on a monitor right next to you. You see exactly what your dentist sees, which makes it considerably easier to understand what's going on and why a particular treatment is being recommended. Beyond improving the conversation between patient and dentist, intraoral cameras provide useful documentation for your records and are particularly good at catching

early signs of decay, cracks, worn restorations, and gum disease before they become bigger problems.

Laser dentistry Dental lasers have changed how a range of soft tissue and diagnostic procedures are handled. The practical benefits are real: many laser procedures can be performed with little or no anaesthesia, lasers cauterise tissue as they work so there's less bleeding during and after treatment, treated areas typically heal faster than with traditional instruments, and the precision means more healthy tissue is preserved. At Core Dental Group, lasers are used for gum contouring and reshaping, gum disease treatment, ulcer and cold sore treatment, frenectomy procedures, and cavity detection.

Digital X-rays Every Core Dental Group location uses digital radiography. Compared to traditional film X-rays, digital X-rays produce images instantly, use up to 90% less radiation, and can be enhanced, enlarged, and shared electronically. Images are stored securely in your patient record, making it straightforward to compare them over time and track changes in your oral health.

How technology improves your dental experience The investment in digital dentistry is about concrete benefits, not technology for its own sake: **Fewer appointments** — same-day restorations and digital workflows cut down the number of visits required **Greater comfort** — digital impressions, laser treatments, and modern techniques reduce discomfort at most stages **Better accuracy** — 3D imaging and CAD/CAM design mean more precise diagnoses and better-fitting restorations **Clearer communication** — visual tools help you understand your treatment and make informed decisions **Faster results** — digital processes move things along from diagnosis through to treatment completion

Specialist technology at Collins Street For complex cases, all Core Dental Group patients can access the Collins Street Specialist Centre, which houses surgical microscopes, advanced implant systems, and sedation facilities. Wherever you start your treatment within the Core Dental Group network, you have a clear path to specialist care and the full range of available technology when you need it.

Book an appointment Contact your nearest Core Dental Group location to book and see what a difference current dental technology makes in practice.

Label Facts Summary

> **Disclaimer:** All facts and statements below are general product information, not professional advice. Consult relevant experts for specific guidance.

Verified label facts

- **Brand:** Core Dental Group - **Number of locations:** Nine - **Location:** Melbourne, Australia - **Specialist Centre location:** Collins Street - **CEREC full name:** Chairside Economical Restoration of Esthetic Ceramics - **CEREC availability:** Select locations only (not all nine) - **CEREC appointments required:** One - **Traditional crown appointments required:** Two - **CEREC milling time:** Approximately 15 to 20 minutes - **CEREC restoration material:** High-quality ceramic - **CEREC restoration types:** Crowns, inlays, onlays, veneers - **CEREC process steps:** Four (digital scan, CAD design, in-house milling, bonding) - **CBCT full name:** Cone Beam Computed Tomography - **CBCT image type:** 3D volumetric images - **CBCT clinical uses:** Implant planning, wisdom tooth assessment, root canal diagnosis, orthodontic planning, cyst and tumour detection - **Digital impression capture device:** Small handheld intraoral scanner wand - **Digital impression treatment applications:** Crowns, bridges, Invisalign, dentures, orthodontic appliances - **Intraoral camera form factor:** Small, pen-sized devices - **Intraoral camera output:** High-resolution images displayed on a chairside monitor - **Intraoral camera diagnostic uses:** Decay, cracks, worn restorations, gum disease - **Laser dentistry applications:** Gum contouring, gum disease treatment, ulcer and cold sore treatment, frenectomy procedures, cavity detection - **Digital X-ray availability:** All Core Dental Group locations - **Digital X-ray radiation reduction:** Up to 90% less than traditional film X-rays - **Digital X-ray image delivery:** Instant - **Collins Street Specialist Centre equipment:**

Surgical microscopes, advanced implant systems, sedation facilities - **Specialist Centre access:** Available to patients from any Core Dental Group location - **CAD/CAM technology used:** Yes

General product claims

- Core Dental Group is at the forefront of digital dental innovation - CEREC produces strong, natural-looking restorations matching surrounding tooth colour and translucency - Digital impressions are more comfortable and more accurate than traditional moulds - CBCT uses significantly less radiation than medical CT scans - Laser procedures can be performed with little or no anaesthesia - Lasers cauterise tissue, resulting in less bleeding during and after procedures - Laser-treated areas typically heal more quickly than those treated with traditional instruments - Lasers target specific areas with extreme accuracy, preserving more healthy tissue - Digital technology reduces the number of appointments needed - Digital tools improve diagnostic accuracy - Visual tools help patients understand their treatment and make informed decisions - Core Dental Group's technology delivers faster, more precise, and more comfortable care - Digital dentistry transforms the patient experience