Scanner | CAD

ivoclar
digital®

- Efficiency increase in the daily workflow
- A suitable scanner for every laboratory
- Modular layout of the design software
- Exclusively developed software add-ons
  (from Ivoclar Digital)
- Ideally coordinated products and processes
- Professional CAD support and training

3SHAPE SCANNERS – THE NEW RANGE

E1

The entry-level model for laboratories with a low amount of full-contour CAD/CAM indications

E2

More productivity for laboratories with a medium amount of CAD/CAM production

E3

The all-round scanner for CAD/CAM laboratories covering a large range of indications

E4

The high-end scanner for a high level of productivity featuring the highest speed and accuracy (per scan) in the portfolio.

D2000

High-performance scanner for fully digital laboratories with an all-in-one function

EVEN MORE POSSIBILITIES

A wide scanner portfolio for your individual system solution. The modular layout of the design software allows the laboratory to expand its range of indications, depending on the situation and requirements. Exclusively developed software packages (add-ons) from Ivoclar Digital also extend the areas of application and increase the comfort in the design and production processes.

3SHAPE E SCANNERS –

Digitalization for every laboratory

High scanning speed
The high scanning speed increases
productivity in the laboratory

Latest technology
Blue LED and multi-line scanning ensure
high accuracy and detailed recording

Reliable scanning of impressions
Digitalization of impressions, without complicated
model casting – saves time and money

Auto-start function
The scanning process starts automatically,
as soon as the model is placed inside

Open up to new possibilities: The 3Shape E series is your partner
for the digitization of your laboratory processes. Benefit from the
intuitive design software, simple handling and the innovative scanner
technology. The scanners of the 3Shape E series are distinguished by
their high speed and accuracy for reliable scanning results.

D2000 LABORATORY SCANNER

Higher productivity

The combination of multi-line blue LED technology and two scanning plates means it is possible to scan two working models (including dies) and the registration in one procedure. The scanner is particularly suited to high-end dental laboratories aiming to achieve a high degree of automation. When scanning a three-unit bridge you save four out of five steps.*

All-in-one scanning for maximum capacity
Enables the scanning of two models (including dies) and the registration in one procedure

Realistic Colour Technology for better detail
This feature allows all textures and colours to be recorded on the model – for a lifelike design. The dental technician thus has the possibility of including hand-marked features in the design process

Documented scan accuracy of 5 microns (ISO 12836)
4 x 5.0 Mega Pixel cameras, high-quality mechanics and calibration algorithms

Quality control and service
Compliance with FDA 21 CFR part 820 and ISO 13485

*An additional die scan can be used for cases with a limited interproximal distance between the dies and the adjacent teeth. All dies must be trimmed and separated.

Find more information at
ivoclardigital.com
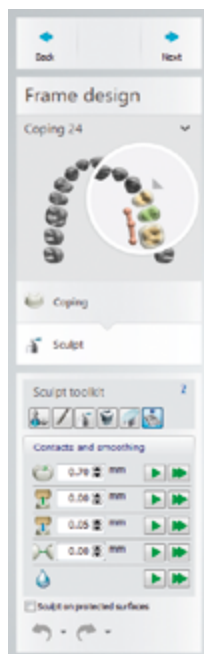
DESIGN SOFTWARE 3SHAPE DENTAL SYSTEM

Performance you can rely on

With the high performance, easy to use CAD software 3Shape Dental System you will receive an efficient design software for an intuitive workflow. Thanks to the variety of different modelling tools, the design can be quickly adapted.

OPEN SYSTEM
Immediately ready for use

- With pre-installed CAD/CAM materials from Ivoclar Digital
- Flexibly extendible due to internal software library
- Open STL data output format

IMPRESSIVE USER EXPERIENCE
Intuitive 3Shape workflow

- Intuitive workflow guides through all construction steps
- Processing orders possible at any time during construction
- Easy to change between construction steps

WIDE RANGE OF INDICATIONS
MORE OPTIONS FOR DIGITAL DENTAL TECHNOLOGY

3Shape Dental System allows laboratories to
constantly expand their range of services –
for inspired and happy customers.

Copings and bridge frameworks	
Full-contour crowns and bridges	
Inlays / onlays / inlay bridges	
Prep and non-prep veneers	
Digital temporary restorations incl. bridges and pontics	
Virtual diagnostic wax-ups including physical models	
Post and core build-ups	
Telescopes incl. secondary telescopes	
Individual abutments incl. positioning key	
Implant bridges and bars incl. secondary structures	
Implant planning with drilling templates	
Removable partial dentures	
Complete dentures incl. impression tray	
Splints	
Orthodontics and appliances	
Model Builder™ (crowns and bridges / implants)	

ORDER MANAGEMENT
Maximum productivity and case management

- Simple creation, management and exchange of orders
- Creation and archiving of digital patient data
- Data import (scan data) of third parties possible
- Indication display in the 3D order form

MORE FLEXIBILITY
Design every indication with CAD points

- Ideal option for additional indications without add-ons
- For long-term use - without time restriction

- Save time during spruing
- Enhanced process reliability
- Coordinated with the IPS e.max® Press procedure

ADD-ON SOLUTIONS

Additional software modules for completely digitalized working steps

These add-on solutions include a range of innovative software solutions. The add-ons, which have been exclusively developed for Ivoclar Digital, are based on the 3Shape software "Dental Designer". The combination of basic software and add-ons enables dental professionals to completely digitalize conventional working steps using precise, state-of-the-art CAD/CAM technology. This allows for innovative solutions from fixed to removable dentures within the coordinated workflow.

IPS e.max® Digital Press Design – Press Multi

This software add-on is used for designing polychromatic IPS e.max Press Multi restorations and the fully automatic positioning of horizontal press sprues on press objects. Due to the digital working steps, the fabrication of IPS e.max Press Multi restorations is even more economical. The wax patterns are milled from ProArt CAD Wax yellow and invested with the universal investment material IPS® PressVest Premium. The software can also be used to individually control the colour transition of IPS e.max Press Multi restorations.

IPS e.max® Digital Press Design – Wax Tree

The software add-on IPS e.max Digital Press Design - Wax Tree enables the computer-based connection of several single restorations onto a wax tree. This wax tree, developed specifically for the IPS e.max Press technique, is produced by PrograPrint 3D printing technology, invested and then pressed in the Programat® press furnaces featuring FPF technology (Fully Automatic Press Function).

DIGITAL DENTURE

The fast monolithic process

Digital Denture is a complete manufacturing process for the rapid digital production of removable full-arch dentures. This innovative process integrates the treatment steps in the dental practice with the digital manufacturing processes in the lab. Exclusive design software and ideally coordinated materials, combined with well-designed manufacturing strategies and the cutting-edge PrograMill milling equipment platform, provide predictable and reproducible results.

INDICATIONS

- Single-arch complete dentures
  (upper or lower jaw)
- Complete dentures (upper and lower jaw)
- Duplicate complete dentures
  (upper and lower jaw)
- Immediate complete dentures
  (upper and lower jaw)

ADD-ON SOLUTIONS

SOFTWARE DIGITAL DENTURE

The fast monolithic process

- Exclusive tooth database from Ivoclar Vivadent
- Functional sample set-up from Ivoclar Vivadent
- Oversize production process using SR Vivodent® CAD[1] and SR Vivodent CAD Multi

[1]Patent pending

SOFTWARE DIGITAL DENTURE PROFESSIONAL

The premium option

- Easy transfer of the correct occlusal plane using UTS CAD[1]
- Time-saving design of the 3D Bite Plates according to the needle point registration Gnathometer CAD
- Automated fabrication of the transfer template[1] for the reliable transfer of prefabricated teeth to the denture base

[1]Patent pending

YOUR BENEFITS

- Time saving due to coordinated software interfaces
- More working comfort during the digital process
  due to a high degree of automation

PERFECTLY COORDINATED COMMUNICATION BETWEEN THE CAD SOFTWARE AND THE PROGRAMILL MILLING MACHINES

FULLY AUTOMATIC PROCESSES

Intelligent output format enhances the efficiency in the laboratory

The intelligent CAD output format CAM5 for Ivoclar Digital transmits important data such as the restoration type or material and milling parameters to the PrograMill CAM software. This way, no important data is lost. The digital process is perfectly matched to the PrograMill machines from Ivoclar Digital.

Faster processes

The software individually recognizes various milling areas such as external and internal contours and the preparation margins. Therefore the data is processed faster in the PrograMill CAM software, operation is easier and a high degree of automation is ensured. This gives dental professionals peace of mind, makes the work process more efficient and provides more time for other laboratory duties.
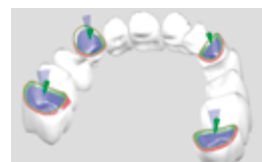
MORPHOLOGY RECOGNITION
Automatic recognition of fissures
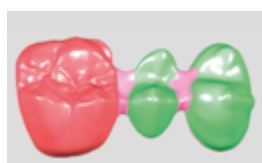

INSERT DIRECTION
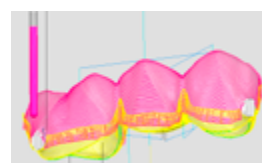Automatic recognition of the direction of insertion

INDICATION RECOGNITION
Automatic recognition of the restoration type

MILLING
Intelligent processing strategy selection

Find more information at
ivoclardigital.com

SCANNERS

Technical data and delivery forms

	E1	E2	E3	E4	D2000
Cameras	2 cameras 5.0 Mega Pixel	2 cameras 5.0 Mega Pixel	2 cameras 5.0 Mega Pixel	4 cameras 5.0 Mega Pixel	4 cameras 5.0 Mega Pixel
Light technology	Multi-line blue LED	Multi-line blue LED	Multi-line blue LED	Multi-line blue LED	Multi-line blue LED
High accuracy of fit (ISO 12836)	10 microns	10 microns	7 microns	4 microns	5 microns
Die scanning on the model	-	-	-	✔	✔
Working model, die and antagonist scanning in one step	-	-	-	-	✔
Texture scanning	-	✔ (black/white)	✔ (colour texture)	✔ (colour texture)	✔ (colour texture)
Scan time – entire jaw	40 sec.	30 sec.	22 sec.	11 sec.	16 sec.
Scan time – entire jaw impression	130 sec.	90 sec.	80 sec.	46 sec.	65 sec.

The 3Shape scanners are available with different Dental System software modules and licensing models.

In addition to the Scan Only software module, with which only scanning is possible, the Dental System modules also offer different functions for designing digital restorations (see table on the right). CAD points can be used for additional indications, which are not included.

With license models, you can choose between the Basic license and the LabCare license. The Basic license is a permanent software license at no recurring cost. You receive free updates, but no upgrades to a newer version with improved functions. For the LabCare license, an annual rental fee applies. In addition to the updates, this license model also includes the upgrades to the newer version of each software module.

Find more information at
ivoclardigital.com

CAD SOFTWARE

Functions and tools

	Dental System Crown & Bridge	Dental System Premium	Dental System Complete Restorative	Dental System Removable Prosthesis
CAD indications				
Copings and bridges	✔	✔	✔	CAD points / Upgrade
Anatomically reduced copings and bridges	✔	✔	✔	CAD points / Upgrade
Fully anatomic crowns and bridges	✔	✔	✔	CAD points / Upgrade
Gingiva tool for all types of restorations	CAD points / Upgrade	✔	✔	Upgrade
Wax-up / Wax-up bridges	✔	✔	✔	Upgrade
Inlays / onlays / inlay bridges / veneers	✔	✔	✔	Upgrade
Table tops and non-prep veneers	CAD points / Upgrade	✔	✔	Upgrade
Multi-layer crowns and bridges	CAD points / Upgrade	✔	✔	Upgrade
Digital temporary restorations	CAD points / Upgrade	✔	✔	Upgrade
Virtual diagnostic wax-ups	CAD points / Upgrade	✔	✔	Upgrade
Root canal posts	CAD points / Upgrade	✔	✔	Upgrade
Telescopes	CAD points / Upgrade	✔	✔	Upgrade
Individual abutments and screw-retained crowns	Add-on / CAD points	Add-on / CAD points	✔	Add-on / CAD points
Implant bars and bridges	Add-on / CAD points	Add-on / CAD points	✔	Add-on / CAD points
Complete dentures	Add-on / CAD points	Add-on / CAD points	✔	✔
Model casts	Add-on / CAD points	Add-on / CAD points	✔	✔
Custom-fabricated trays	CAD points / Upgrade	✔	✔	✔
Model fabrication	Add-on / CAD points	Add-on / CAD points	✔	Upgrade
Positioning aids	CAD points / Upgrade	✔	✔	Upgrade
Smile Design	Upgrade	✔	✔	Upgrade
Splints, occlusal splints, mouthguards	CAD points / Upgrade	✔	✔	Upgrade
Orthodontic appliances	Add-on	Add-on	Add-on	Add-on
Implant planning and drilling templates	Add-on	Add-on	Add-on	Add-on
Digital Press Design – Press Multi	Add-on	Add-on	Add-on	Add-on
Digital Press Design – Wax Tree	Add-on	Add-on	Add-on	Add-on

	Dental System Crown & Bridge	Dental System Premium	Dental System Complete Restorative	Dental System Removable Prosthesis
Tools				
Smile Composer™ incl. Free Form Tool *	✔	✔	✔	✔
Mirror teeth	✔	✔	✔	✔
Simultaneous designing in the upper and lower jaw	✔	✔	✔	✔
Virtual dynamic articulation	✔	✔	✔	✔
Attachments	✔	✔	✔	✔
RealView™ Engine with 2D design lines *	Upgrade	✔	✔	✔
Reuse of the design	✔	✔	✔	✔
Align CAD blocks	✔	✔	✔	✔
3Shape Communicate™ Inbox (2 GB online memory included) *	✔	✔	✔	✔
3Shape Communicate™ inbox and colour measurement *	✔	✔	✔	✔
Basic and expert mode	✔	✔	✔	✔
Extended range of design validation tools	✔	✔	✔	✔
Dental Manager Inbox™ *	50 connections	50 connections	50 connections	50 connections
Compatible with all popular milling machines	✔	✔	✔	✔

* These brands are not registered trademarks of Ivoclar Vivadent AG.

✔	Included in the Dental System™ software package
Add-on	Requires the extension of an additional add-on module
Add-on / CAD points	You can either use CAD points for each case or purchase an add-on module
Upgrade	Requires upgrade to Dental System Premium or Dental System Complete Restorative edition
CAD points / Upgrade	You can either use CAD points for each case or upgrade to Dental System Premium or Dental System Complete Restorative edition.

DIGITAL EXPERTISE
UNDER ONE ROOF

Ivoclar Digital is a competent digital partner, which supports dentists and dental technicians along the entire digital process chain.   A great deal of importance is placed on simple and understandable procedures. The portfolio for the digital work process is divided into four areas:

CONSULT

IvoSmile[1], the innovative software application based on Augmented Reality, supports the dialogue between dental professionals and their patients

DESIGN

Versatile scanners, intuitive design software from our partners and exclusive add-ons

DECIDE

High-performance materials such as IPS e.max® – the world's most used all-ceramic system[2]

PRODUCE

Technologically high-quality equipment for the production of esthetic restorations

S E R V I C E +

Service+   The offer is complete with Service+. The service provision makes your entry into digital production easier and serves as a back-up partner for dental laboratories.*

* Service+ is available in the following countries: Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Holland, Hungary, Ireland, Italy, Liechtenstein, Luxembourg, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, and United Kingdom.

[1] IvoSmile is currently only available in the following countries: Austria, Bosnia-Herzegovina, Brazil, China, Croatia, Finland, Liechtenstein, Montenegro, Romania, Switzerland, Serbia, Slovenia, and the US. It will be launched in additional countries starting as from April 2019.
[2] Based on sales figures

web/EN/2019-10-30

→ Connected to you

ivoclardigital.com

ivoclar digital®