

DIGORA[®] Optime



Fast
Small
Smart

SOREDEX

Intraoral digital imaging
plate system

DIGORA® Optime intraoral digital imaging plate system

DIGORA® Optime system makes your daily imaging workflow easier and more efficient. Leading clinical results satisfy all diagnostic needs of demanding dental professionals, from single dental practices to intensive use in large dental institutions. DIGORA® Optime is uniquely hygienic, small, fast and the easiest visually guided system on the market.

Summary of benefits

Easy to use

- Graphical user interface supports easy workflow with clear information

Fast and automated

- Fast image readout
- Smart automated functions

Uniquely hygienic

- Effortless, end-to-end hygienic workflow
- Proprietary hygiene accessories
- Touchless operation (pat.pend.) and automatic internal UV-disinfection system (pat.pend.)

Excellent clinical results

- Comfortable for the patient
- Latest generation of imaging plates
- Repeatable image quality automatically

Designed for your practice

- Compatible with all intraoral sizes 0, 1, 2, 3 and Comfort Occlusal™ 4C
- Small footprint with many installation options
- Cost-effective sharing between operatories over local area network

SOREDEX has over 30 years of expertise in developing and manufacturing state-of-the-art dental imaging systems. As other SOREDEX® products, DIGORA® Optime is easy to use and provides excellent clinical results.

SOREDEX introduced DIGORA®, the world's first intraoral imaging plate system, in 1994 and has continued to build on the DIGORA® heritage - A heritage based on understanding the diagnostic and workflow needs of dental professionals around the world.

Your best choice for digital intraoral imaging



Benefits vs. film

- Full daylight system
- No harmful chemicals
- Practically no under- or over exposures = fewer retakes
- Digital images instantly available
- All general benefits of digital: Image archiving and distribution etc.

Benefits vs. sensors

- Familiar workflow and accessories from film imaging
- All intraoral sizes available, including Comfort Occlusal™ 4C
- Thin, flexible, comfortable and inexpensive imaging plates
- 100% active area
- No cables
- Wider dynamic range minimizes under- or overexposures

Easy to use

Continuing the SOREDEX® tradition of easy-to-use imaging equipment and benchmarking intraoral imaging plate systems, DIGORA® Optime takes usability to the next level with a clear color graphical display built right into the unit. This allows informative self-guiding tutorials and instant image evaluation right by the system.



Visually guided use

DIGORA® Optime supports users with clear animations. Even new users quickly learn how to use the system efficiently.



Image preview

The digitized image is displayed instantly on the unit's display. The user can immediately verify image quality and determine if a retake is needed.



Smart and secure connecting

Multiconnect™ allows each DIGORA® Optime to be shared in a controlled way with multiple workstations on the network.

The interactive display shows you which workstation and patient DIGORA® Optime is paired with, and thus eliminates the need to have a dedicated PC next to DIGORA® Optime.



Fast and automated

You obtain automatically and consistently the best clinical results for all diagnostic needs with this small, smart system – the fastest and easiest visually guided system on the market.

Fully automated workflow

The system automatically detects the size and correct orientation of the imaging plate and processes it quickly in one easy step — having it ready for immediate reuse.

Touchless operation (pat.pend.)

DIGORA® Optime has a built-in proximity sensor that detects your approaching hand and readies the system automatically.

Lightning fast image readout

A high quality image is displayed in just seconds.



Image in seconds!

Opticlean™ – Uniquely hygienic

The Opticlean™ sets a new hygiene standard

DIGORA® Optime's Opticlean™ hygiene system improves patient and user safety by minimizing the risk of cross-contamination. The superb Opticlean™ hygiene concept consists of the unique hygiene accessories, touch-free operation and internal UV-disinfection feature of the unit. The Opticlean™ hygiene concept is protected by various patents, patent applications and registered designs.

UV disinfection system (pat. pend.)

DIGORA® Optime is the first intraoral imaging plate system on the market to introduce a smart and automated internal ultraviolet (UV) disinfection feature that inactivates viruses and bacteria on the plate transport mechanism*.

Effortless end-to-end hygienic workflow

Unique hygiene accessories - the fully waterproof Optibag™ hygiene bag and Opticover™ protective cover - eliminate the need to touch the re-usable imaging plate and minimize the risk of cross-contamination. And thanks to the compact design and front loading, DIGORA® Optime is very easy to keep clean.



* UV radiation is known to eliminate at least 99.9% of viruses and bacteria, providing germicidal safety against:

- HIV
- Hepatitis A/B/C
- Corynebacterium diptheriae
- Mycobacterium tuberculosis
- Herpes
- And many more

"Efficiency of SOREDEX DIGORA® Optime UV disinfection system",
Ari-Pekka J. Huovila, PhD Principal Investigator
Institute of Medical Technology, University of Tampere and
Tampere University Hospital

Excellent clinical results

Leading clinical results for
all diagnostic needs



Size 0:
Pediatric imaging



Size 1:
Periapical imaging



Size 2:
Bitewing imaging



Size 3:
Full bitewing imaging



Size 4C:

Occlusal projection imaging:

The complete image is produced automatically from two size 3 imaging plates, so there is no need for dedicated, expensive plates for occlusal projection. The plates are shielded from biting damage with a rigid bite protector.



Comfort Occlusal™ 4C:

Perfect bite protection, optimized dimensions and pleasant procedure even for pediatric patients.

Repeatable and solid image quality

DIGORA® Optime offers consistent, enhanced diagnostic quality and practically eliminates accidental over- or underexposures by automatically adjusting the gray levels of the image. There's no need to change X-ray settings or adjust images between the exposures. DIGORA® Optime meets all intraoral imaging needs and provides proven, winning diagnostic accuracy*.

Comfort Occlusal™ imaging

The optimized size and shape of the Comfort Occlusal™ bite protector enables easy positioning for this sometimes difficult projection and shields the plates from wear.

Comfort Occlusal™ utilizes two size 3 imaging plates, so there is no need for specialized, expensive occlusal plates.

Latest generation imaging plates

The latest generation of imaging plates are resistant to wear and their wide dynamic range combined with high sensitivity to X-rays yields consistently optimal image quality.

* "Detection of in vitro proximal caries in storage phosphor plate radiographs scanned with different resolutions", G Li, WER Berkhout, GCH Sanderink, M Martins and PF van der Stelt, Dentomaxillofacial Radiology (2008) 37, 325-329

Designed for your practice

One DIGORA® Optime fits all

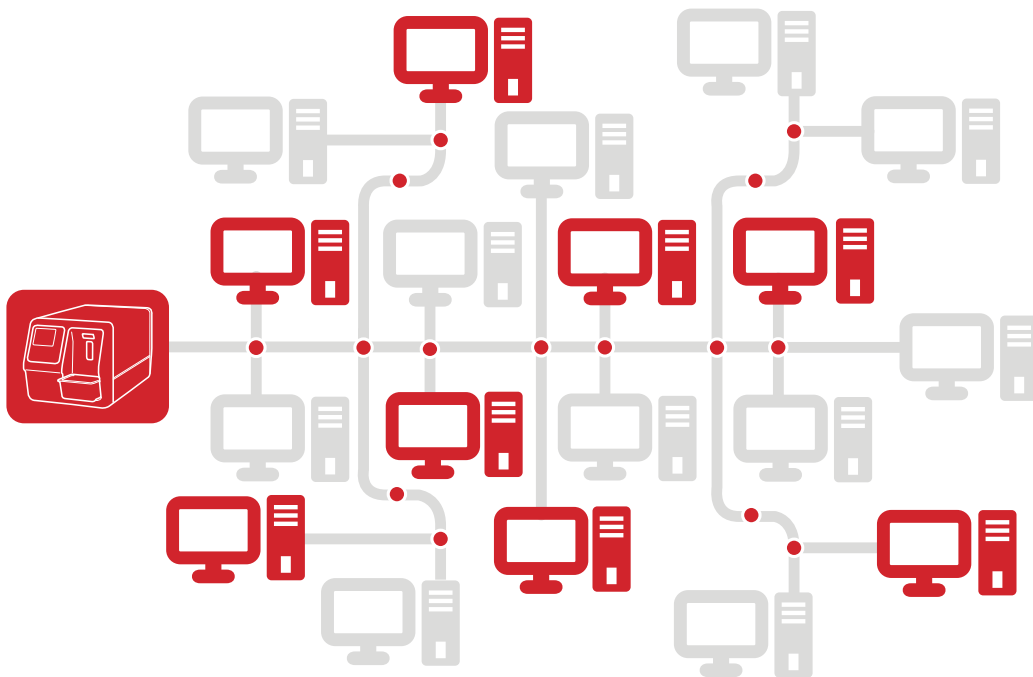
Ethernet connection, full daylight operation and compact front-loading design allows DIGORA® Optime to be positioned optimally for your workflow: chairside or centrally located, on the table, in a cabinet or even on a shelf. An optional mounting kit allows the placing of the system on a wall or under a desktop.

Uniquely hygienic for improved patient and user safety

DIGORA® Optime utilizes a unique Opticlean™ hygiene concept: Touchless operation, unique hygiene accessories and compact, easy-to-clean design minimize the possibility of cross-contamination.

Proven reliability and flexibility

Tens of thousands of installations worldwide have proven that the performance of the DIGORA® imaging plate systems fully satisfies the intraoral imaging needs of dental professionals - from single dental practices to intensive use in imaging centers and other large dental institutions. Reliable and robust design is built on the most experience in the market. A metal enclosure finishes off the overall quality of DIGORA® Optime.



Cost-effective network sharing

DIGORA® Optime connects to a standard network and can be easily shared in a controlled way between multiple imaging application workstations on the local network. Network sharing is an effective and economical solution for any practice, but especially for large ones since images from one DIGORA® Optime can be accessed from multiple locations.

Latest generation of imaging plates

Dynamic and tough imaging plates

DIGORA® Optime imaging plates with high wear resistance serve you time after time, making the use of the system cost-effective.

Comfortable for the patient, 100% active area

DIGORA® Optime wireless and flexible imaging plates together with soft hygiene bags are very comfortable for the patient. In contrast to intraoral sensors, the entire area of SOREDEX® imaging plates is used for registering clinical information.

Optimized flexibility

DIGORA® Optime imaging plates have a perfect degree of flexibility to enable easy and precise positioning comfortable for the patient, while being rigid enough to minimize geometrical distortion.

Patented IDOT™ imaging plate identification system

Optionally available IDOT™ imaging plates have an individual marking visible on the X-ray image. IDOT™ supports self quality assurance by making it possible to find the plate that was used to take an image.

IDOT™ imaging plates support quality assurance: Each plate has an individual marking visible on the X-ray image.



Comprehensive selection of accessories



Imaging plates

DIGORA® Optime imaging plates are available in all intraoral sizes: 0, 1, 2, 3 and 4C, optionally with IDOT™ identification marking.

Unique hygiene accessories

Optibag™ hygiene bags are made of latex-free, food grade material for maximum safety. The easy-to-use double sealing system offers the best hygienic protection possible. One side of the bag is transparent for orientation.

Opticover™ protective covers protect the imaging plates from cross-contamination, mechanical damage and information loss caused by ambient light.

Hygiene accessories are delivered in a practical organizing box.

Imaging plate holders

The DIGORA® Optime imaging plates are compatible with typical holders used with film imaging. A range of fully compatible holders for periapicals and horizontal bitewings is available from SOREDEX distributors.

Comfort Occlusal™ 4C bite protector (pat.pend.)

Prevents imaging plate from wear and bite damage. The optimized size and shape results in patient comfort for sometimes difficult occlusal projection imaging.

Imaging plate storage box

A handy storage box keeps imaging plates clean and ready for use.

0

22 x 31 mm
628 x 885 pixels
1.09 MB

1

24 x 40 mm
685 x 1143 pixels
1.53 MB

2

31 x 41 mm
886 x 1171 pixels
2.03 MB

3

27 x 54 mm
771 x 1542 pixels
2.32 MB

4C

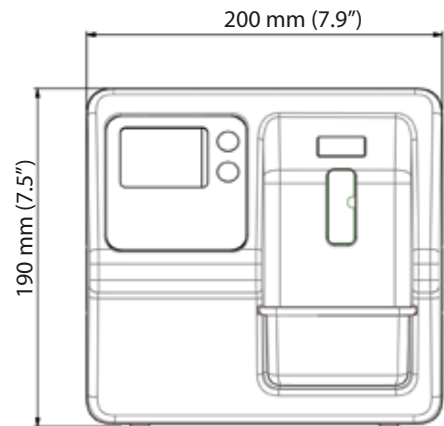
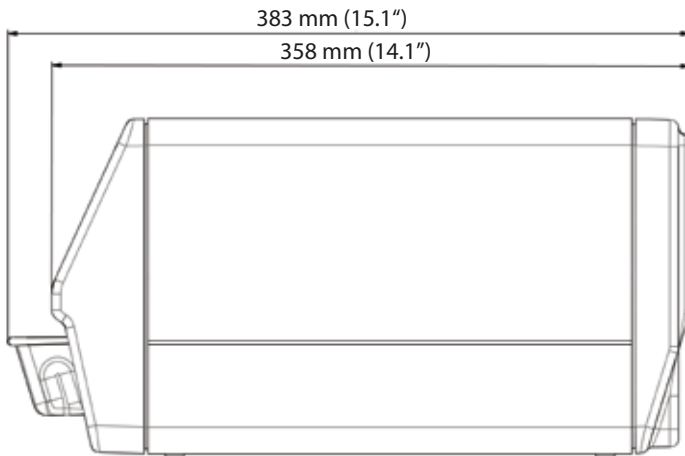
48 x 54 mm
1372 x 1542 pixels
4 MB

Comfort Occlusal™ uses two size 3 imaging plates

Proprietary DIGORA® accessories are protected by various patents, patent applications and registered designs

NOTE! Pixel numbers and file sizes above are with SUPER resolution. With HIGH resolution set, pixel numbers are 0.547 x and file sizes are 0.3 x (both approximately).

Technical data



DIGORA® Optime DXR-50 001 technical data

Pixel size, selectable	35 µm (Super), 64 µm (High)
Bit depth	14 bits grayscale
Resolution	14.3 lp/mm true resolution
Readout time	4.3 - 7.5 seconds
Connection	Ethernet 1 Gb compliant
DXR 50 Classification IEC60601-1	- Class 1 equipment - Continuous operation - IPX0 (enclosed equipment without protection against ingress of liquids)
Dimensions (H x W x D)	190 mm x 200 mm x 383 mm (7.5" x 7.9" x 15.1")
Weight	9.8 kg (21.6 lbs)
Operating voltage	100 - 240 V, 50/60 Hz
Operating current	Less than 1.3 A
Operating environment	+10°C - +40°C, 30 - 90 RH%, 700 - 1060 hPa

Workstation PC requirements*

Operating system	Windows® 7, Windows® Vista, Windows® XP Professional
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* For full details on supported PC requirements, please contact your local distributor for the latest information.

Software compatibility

Patient name on unit display	DIGORA® for Windows® 2.7 and SCANORA® 4.3
Comfort Occlusal™ 4C compatibility and UV disinfection	DIGORA® for Windows® 2.7, SOREDEX® TWAIN 3.2, SCANORA® 4.3 (Consult your local SOREDEX® distributor for compatible 3rd party sw-applications).
Sizes 0, 1, 2 & 3 imaging + Touchless operation	DIGORA® for Windows® 2.6, SOREDEX® TWAIN 3.0, SCANORA® 3.2.1 (Consult your local SOREDEX® distributor for compatible 3rd party sw-applications).

DIGORA® for Windows® (and CliniView XV for the North American market) offer a comprehensive set of imaging tools to assist you with your daily imaging needs. Total flexibility is yours with either single-user or the optional network version. Optional DICOM® services integrate DIGORA® Optime into a PACS/DICOM® environment seamlessly. SOREDEX® TWAIN integrates DIGORA® Optime with 3rd party software supporting the TWAIN standard. In addition to SOREDEX® software, DIGORA® Optime can be integrated with many practice management and 3rd party imaging softwares. DIGORA® Optime has a simple to use, standard Ethernet connection to a PC or the network. With SOREDEX's 30 years of experience in developing state of the art dental imaging systems, DIGORA® Optime provides you with a small, smart, fast and visually guided intraoral digital imaging plate system - continuing the pioneering tradition of the famous DIGORA® family.

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Digital imaging made easy™

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Pride. Passion. Performance.

Since 1977 SOREDEX has been a leader in providing innovative imaging solutions for demanding professionals. Through continuous evolution and refinement we have set the highest industry standards for Quality, Reliability and Efficiency.

We are committed to following this path today and in the future.

SOREDEX®/DIGORA®/SCANORA®/Optibag™/Opticover™/Opticlean™/Multiconnect™/Comfort Occlusal™/IDOT™/Digital imaging made easy™ is a registered trademark / a common law trademark of SOREDEX. Other product names and trademarks are the property of their respective owners. CE-marked, NB (CE) number 0537. Electrical safety meets the IEC 60601-1 standard. Manufacturing complies with ISO 13485:2003, ISO 9001:2008, and ISO 14001:2004.

DICOM® is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information.

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