

**SOREDEX**

**DIGORA<sup>®</sup> Optime**



**Small. Smart. Fast.**  
Intraoral digital imaging plate system

# DIGORA® Optime

## Intraoral digital imaging plate system

### Summary of benefits

#### EASY TO USE

- Patient name and image preview displayed on the unit
- Graphical user interface supports easy workflow

#### FAST AND AUTOMATED

- Fast image readout
- Smart automated functions

#### UNIQUELY HYGIENIC

- Touchless operation
- Automatic internal UV-disinfection system
- Effortless, end-to-end hygienic workflow

#### EXCELLENT CLINICAL RESULTS

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

#### DESIGNED FOR YOUR PRACTICE

- Compatible with all intraoral sizes 0, 1, 2, 3 and Comfort Occlusal™ 4C
- Small footprint with many installation options
- Smart sharing between operatories over the network with Multiconnect™



SOREDEX® has over 30 years of expertise in state-of-the-art dental imaging systems. As other SOREDEX products, the DIGORA® Optime is easy to use and provides excellent clinical results. The DIGORA® system has a history from 1994 and has become the preferred choice 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 overexposures
- Digital images instantly available
- Image archiving and distribution



### 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



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# Easy to use

Continuing the SOREDEX tradition of easy-to-use imaging equipment, the 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

The DIGORA® Optime supports users with clear animations. Even new users quickly learn how to use the system with little or no training required.



### 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 simplifies operation by showing you which workstation and patient the DIGORA® Optime is paired with.

There is no need to have a dedicated PC next to the DIGORA® Optime.

# Fast and automated

You obtain the best clinical results for all diagnostic needs  
- with this small, smart, 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 completely erases it in one easy step. There are no complicated cassettes, plate guides or drums needed.

## Touchless operation

The DIGORA® Optime has a built in motion 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!**



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# Opticlean™ – Uniquely hygienic

## Opticlean™ sets a new hygiene standard

The DIGORA® Optime employs a unique hygiene system (Opticlean™) that minimizes the risk of cross-contamination, resulting in improved patient and user safety. The superb Opticlean™ hygiene concept consists of the hygiene accessories, touch-free operating and internal UV-disinfection feature of the unit. The Opticlean™ concept is protected by various patents, patent applications and registered designs.

## UV disinfection system

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

The fully waterproof Optibag™ hygiene bag minimizes the risk of cross-contamination of the imaging plate. The DIGORA® Optime's touchless operation is further enhanced by using the Opticover™ protective covers. - There is never a need to touch the re-usable imaging plate. And thanks to the front loaded system remaining closed when not in use and the compact design, the unit is very easy to keep clean.



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

- HIV
- Hepatitis A/B/C
- *Corynebacterium diphtheriae*
- *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

## Repeatable and solid image quality

The DIGORA® Optime automatically adjusts the gray levels of the image to enhance the diagnostic quality. This feature offers consistent results and eliminates accidental over- or underexposures without having to change exposure settings for each patient.

The DIGORA® Optime meets all intraoral imaging needs and provides proven, winning diagnostic accuracy\*.

## Comfort Occlusal™ imaging

Comfort Occlusal™ provides a pleasant imaging procedure for the occlusal projection imaging, even with pediatric patients. 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.

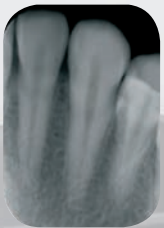
The Comfort Occlusal™ utilizes two size 3 imaging plates, so there is no need for specialized, expensive occlusal plates.

## Latest generation imaging plates

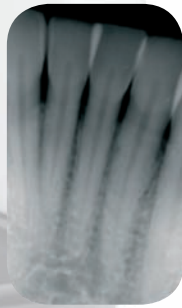
Latest generation of imaging plates are resistant to wear and their wide dynamic range combined with high sensitivity to X-rays yields optimal image quality.

\* "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

## Leading clinical results for all diagnostic needs



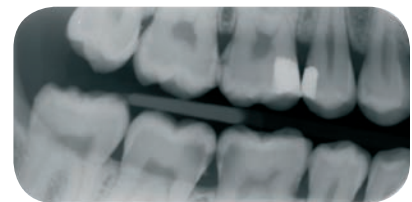
**Size 0:**  
Pediatric imaging



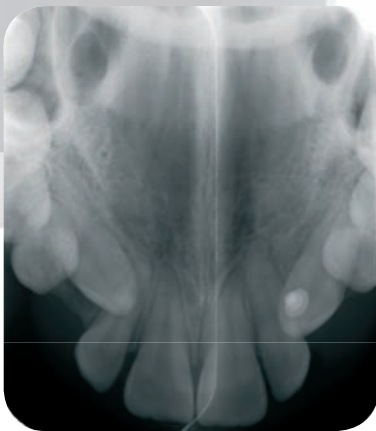
**Size 1:**  
Periapical imaging



**Size 2:**  
Bitewing imaging



**Size 3:**  
Full bitewing imaging



**Size 4C:**  
**Occlusal projection imaging:**  
The complete occlusal projection image is produced from two size 3 imaging plates. The two size 3 plates overlap during exposure to ensure that all clinical information is included. System automatically joins the two sequential size 3 images to create a single occlusal image.



**Comfort Occlusal™ 4C:**  
Perfect bite protection and pleasant procedure even for pediatric patients.

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# Designed for your practice

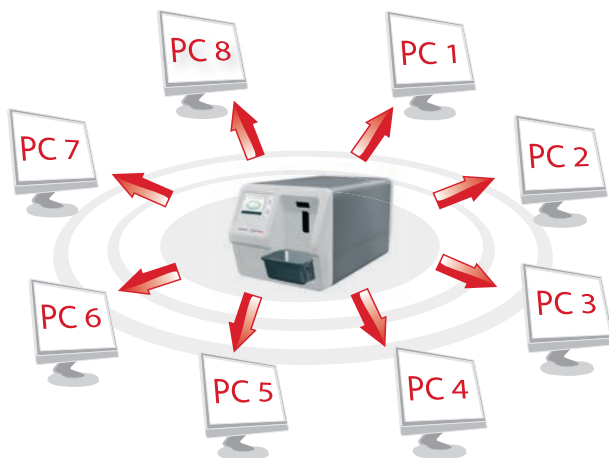


## Uniquely hygienic for improved patient and user safety

The DIGORA® Optime utilizes a unique Opticlean™ hygiene concept: The unit can be operated touchlessly. With the protective covers, imaging plates do not need to be touched. SOREDEX Optibag™ hygiene bags minimize the possibility of cross-contamination. And thanks to the compact design, the system is very easy to keep clean.

## Small footprint with many installation options

Ethernet connection, full daylight operation and extremely compact design means that the DIGORA® Optime can be installed almost anywhere. The front loading unit can be placed on the counter top, in a cabinet, or on a shelf. Optional mounting kit allows placing the system on a wall or under a desktop.



## Share your DIGORA® Optime between operatories with Multiconnect™

Unlike USB connected systems, the DIGORA® Optime can be easily shared in a controlled way between multiple (up to eight) workstations on the local network. Network sharing is an effective and economical solution for any practice, but especially large ones.

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# Latest generation of imaging plates

## Dynamic and tough imaging plates

DIGORA® Optime imaging plates have high wear resistance. With proper handling, the imaging plates will serve you time after time, making the use of the system cost-effective.

## Comfortable for the patient, 100% active area

DIGORA® Optime imaging plates and hygiene bags are very comfortable for the patient. With the systems ability to read all intraoral size imaging plates (0, 1, 2, 3 and 4C) no diagnostic task is too hard. In contrast to intraoral sensors or imaging plate systems that require plate cassettes or similar adapters, the entire area of SOREDEX imaging plates is used for registering clinical information.

## Optimized flexibility

DIGORA® Optime imaging plates have a right degree of flexibility to enable easy and precise positioning with no discomfort to the patient, while being rigid enough to minimize distortion.

## Patented IDOT™ imaging plate identification system

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

IDOT™ imaging plates support quality assurance with individual marking visible on the image



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# Comprehensive selection of accessories



## Imaging plates

DIGORA® Optime imaging plates are available in all intraoral sizes: 0, 1, 2, 3 and 4C, either with or without IDOT™ imaging plate identification marking.

## Protective covers

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

## Hygiene bags

The latest generation Optibag™ hygiene bags have a double sealing system that offers the best hygienic protection possible. Loading and positioning is simple since one side of the bag is transparent and allows you visually inspect the imaging plate orientation. Sealing and opening is effortless. The hygiene bags are made of latex-free, food grade material.

## Imaging plate holders

The DIGORA® Optime imaging plates are compatible with typical holders used with film imaging.

A full range of compatible holders for periapicals and horizontal bitewings are available from SOREDEX distributors.

## Imaging plate storage box

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

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

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

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

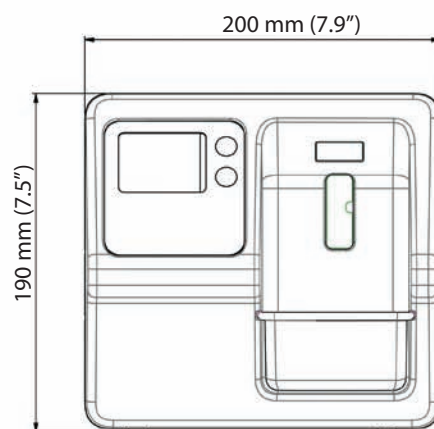
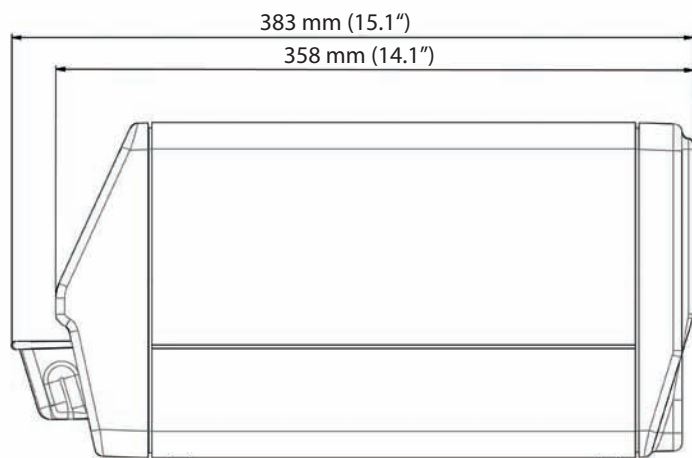
4C

48 x 54 mm  
1372 x 1542 pixels  
4 MB

Comfort Occlusal™ uses two size 3 imaging plates

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 0,3x (both approximately).

# Technical specifications



## 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 the DIGORA® Optime into a PACS/DICOM environment seamlessly. SOREDEX® TWAIN integrates the DIGORA® Optime with 3rd party software supporting the TWAIN standard. In addition to SOREDEX® software, the 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, the 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.



## 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 follow in this path today and in the future.

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204133-4 11/10 Printed in Finland



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