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3DISC

HERON™ IOS

INTRAORAL DIGITAL IMPRESSION SCANNER



Heron™ IOS – a Turnkey Digital Scanning Solution for Dentists

With Heron™ IOS, you get a complete, turnkey solution with a small, lightweight intraoral scanner combined with our QuantorClinic™ software package. QuantorClinic™ supports the dental impression taking workflow. It includes order management, scanning, validation, commenting and order submission — an all in one application accessible from one interface.

Heron™ IOS Designed to Fit into the Modern Dental Practice

The scanner is an optical impression system that creates digital 3D models for dental restorations. It records the tooth morphology for use in CAD/CAM for dental restorative prosthetic devices.

The hand-held scanner features a small, lightweight hand- and mouthpiece and a rotatable tip for providing the best possible ergonomic grip and use. It also offers premium features such as color capture and a built-in heater to prevent fogging. With this intraoral scanner for digital impression taking, 3DISC provides a solution that supports the most common types of restorations in dentistry.

The QuantorClinic™ Application – Built for Collaboration

The scanner comes with QuantorClinic™, a software application that handles order management and scanning, as well as lab sharing. Built on exocad's OEM software platform, one of the most widely used platforms in the industry, QuantorClinic™ offers a touchscreen interface and functions that are easy-to-use and built for collaboration.

WHY HERON™ IOS?

Truly Ergonomic

- *Compact design, weighs only 145 grams*
- *Designed for dentist and patient comfort*
- *360° rotating tip for optimal scanning angle*

Improved Efficiency

- *Fast scanning for comfortable impression taking*
- *Open format for widest lab integration*
- *Improved lab communication with dentalshare and the QuantorClinic™ workflow*
- *An intuitive interface and workflow for scanning and order process*

Better Accuracy

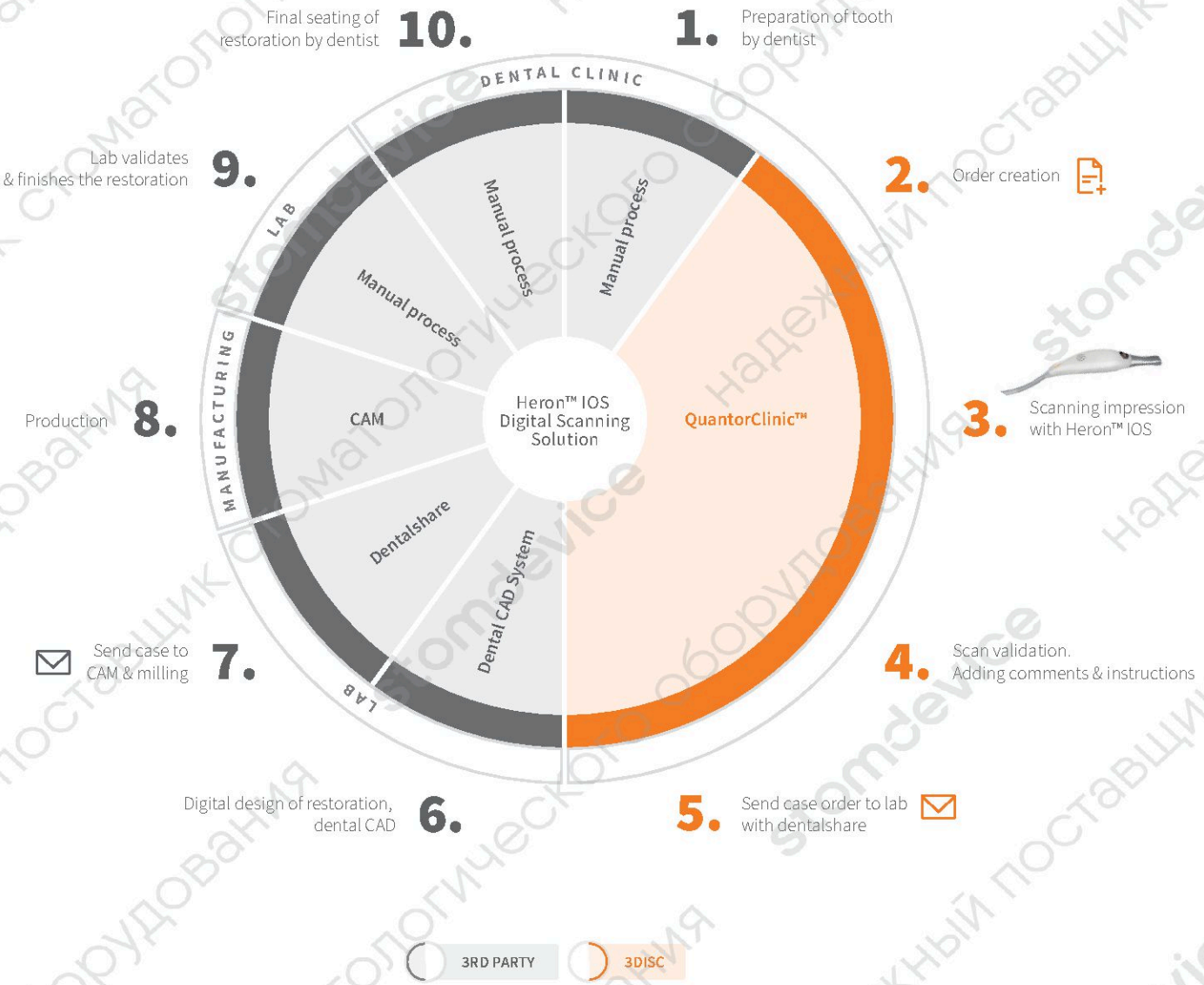
- *HD image capture and color scanning*
- *No powder or spray required*

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3DISC Digital Scanning Solution and Workflow in a Nutshell

The 3DISC intraoral digital impression scanner enables the automation of the dental restoration workflow for the most common types of restorations. The chart below illustrates how QuantorClinic™ works together with other 3DISC and third-party software applications to handle the entire restoration process, from the first scan of the original tooth, through order creation, scan of preparation, validation and order submission, to further production and final seating.

In addition to lab sharing and order management capabilities, QuantorClinic™ includes a scan and project application.



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QuantorClinic™ Software for Heron™ IOS

QuantorClinic™

Define the job (patient, dentist, technician, type of construction and material), and perform the impression scan.

- *Order creation & management*
- *Scan*
- *Dentalshare*
- *Copy*

Dentalshare

Launched from QuantorClinic™, sharing the digital impressions with the Lab.

Lab & CAD integration

Integration with the most common dental CAD systems for the design and manufacturing of:

- *Anatomic crowns*
- *Primary telescopes*
- *Simple & anatomic copings*
- *Veneers*
- *Waxup digital copy milling*
- *Inlays, onlays*
- *Attachments*
- *Waxup-based frameworks*
- *Post & core*
- *Bridge frameworks*



A Smart IOS Solution with Intuitive Workflows

Heron™ IOS is designed to easily fit into the modern dental practice and workflow, with a sleek and compact design and a solution that delivers great depth measurement, color recognition and speed.

Open Format for Widest Integration

- *STL and PLY output format*
- *Compatible with most dental CAD systems*

Guided Scan and Ease of Use

- *Uses live video feed and guidance tools to aid in the scanning process*
- *Built-in workflows guide the user through a scan*

Efficient Lab Communication

- *Clinicians can collaborate with lab technicians on cases via the user interface*

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WHY 3DISC DENTAL SOLUTIONS?

3DISC has a longstanding and solid business and development foundation in imaging technology for medical and dental use. The customer can rely on the fact that 3DISC, with its expertise and continuous product development, will work to secure their investments through a product philosophy based on reliability and affordability. The development of our solutions begins and ends with the dentist and patient in mind and 3DISC brings together imaging experts with diverse backgrounds and significant experience in image processing and enhancement. Our aim is to make affordable quality imaging solutions for dental and medical practices. Heron™ IOS is developed and manufactured in the United States.

THE SCANNER

Design	Compact, lightweight, ergonomic – designed to be operated with little physical effort
Scanner Type	Intraoral scanner that creates digital 3D models for dental restorations • Heron™ IOS color impression solution
Scanner Tip	Biocompatible polymer (autoclavable)
Heating Element	Prevents formation of fog on the optics
Weight	145 grams
Dimensions Scanner	Size: L 256 mm, W 43 mm, H 43 mm
Dimensions Base	Size: L 306 mm, W 98 mm, H 72 mm
Acquisition Method	Intraoral camera – active stereo imaging
HD Image Capture	✓
Color Scanning	24-bit (8-bit per channel)
Power Cord	1,8 meters

SCANNING PROCESS

Tooth Preparation	No powder or spray required
Scanning Principle	Continuously scanning and accumulating (stitching) depth and color data
Distance Scanner - Tooth	0-15 mm
Capture Time	< 5 minutes per arch
Computer - Scanner Interface	USB 3.0

SOFTWARE & LAB INTEGRATION

Output File Format	STL and PLY
Compatibility with CAD/CAM Systems	Open Architecture • Output format STL and PLY • Compatible with most Dental CAD systems
QuantorClinic™	Order management, scanning, validation and lab sharing application
Dentalshare	Allows transfer of dental restoration data from dental office to dental lab and manufacturing
Indications	The scanner software is set up to aid in the creation of restorations such as crowns, bridges, inlays, onlays and veneers
Interface	Touchscreen functionality

PC SOFTWARE / HARDWARE

Software Requirements	Windows 8/8.1 or Windows 10 (Excluding Windows 10 S) • Administrative rights (for installation)
Recommended Hardware	12 GB of RAM (DDR4 or better) • > 2 GB of free disk space • 4 Core Intel i7 or AMD Ryzen Processor (at >= 2.8 GHz clock or >=3.2 GHz turbo clock) NVIDIA Graphics Processor (1000 Series: 1070 or Greater - Mobile Series: 1070 or Greater)

REGULATORY

Regulatory Approvals	CE, (FDA & KFDA in process)
System Calibration	The system provides an automatic self-calibrating capability without user intervention

Specific results may vary since operating conditions fluctuate.

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3DISC Americas, Inc.
22560 Glenn Drive, Suite 116
Sterling, VA 20164, United States
Tel: +1 800 570 0363

3DISC Europe ApS
Gydevang 39-41
3450 Allerød, Denmark
Tel: +45 88 276 650

3D Imaging & Simulations Corp. (3DISC)
Bldg. 1, 48, Yuseong-daero 1184 beon-gil,
Yuseong-gu, Daejeon, Korea
Tel: +82 42 931 2100
Fax: +82 42 931 2299

www.3DISC.com
sales@3DISC.com

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