Zirkonzahn®

DETECTION EYE

New intraoral scanner with high speed and precision

Enrico Steger,
Zirkonzahn's founder and CEO

Julian Steger,
Zirkonzahn's CEO

HIGH PRECISION FROM THE START OF TREATMENT

Our intraoral scanner Detection Eye, perfectly integrated into Zirkonzahn's workflow, is a state-of-the-art and precise device for the digitisation of the patient's oral situation at the beginning of the treatment.

With each new product, we remain true to our work philosophy: with Detection Eye, the interaction between clinic, laboratory and patient is brought to the next level, thanks to the innovative software functions and the scanner's complete integration into our workflow and data management system.

Our intraoral scanner transforms chair time into a comfortable and relaxing experience for the patient. The clinician can choose between two different tip sizes and, by creating a QR code, 3D scans and clinical recommendations can be shared with the patient to facilitate a better understanding of the individual treatment plan.

Well-informed patients are satisfied patients ... and they are more likely to come back in the future!

Zirkonzahn®

EFFICIENT FOR THE DENTIST

PRACTICITY

High-performance notebook with touchscreen and touchpad; scanner with anti-fog function and LED indicator to guide the user during scanning; the heating of the scan tips can be set according to usage conditions; extra-oral function available

HYGIENE

Through the "Motion Sensing" function, it is possible to use different options directly from the intraoral scanner (e.g. rotate or repeat scans, go to the next step, etc.): this minimises contact with the computer, for a safe and efficient scanning

FUNCTIONA-LITY

Efficient and fast scanning of all oral situations, with photo-realistic colours; scanning of different surfaces such as Transfer Fork or lips; flexible scanning distance (from 5 mm to direct contact)

ERGONOMICS

The cart allows to position Detection Eye and the notebook safely and to adjust the height ergonomically; in the drawer, scan tips and accessories can be stored in a tidy way

TREATMENT PREVIEW

Sharing the 3D scans and clinical recommendations with the patient via a QR code for a better understanding of the treatment plan

SHARING

The patient case can be sent directly to the dental technician by selecting the laboratory in the Zirkonzahn.DetectionEye software; alternatively, the scans can be saved into "MyCloud" and sent at a later time. The data can also be shared via USB or other online data transfer methods

ALWAYS CONNECTED WITH YOUR DENTAL LAB AND PATIENTS

VIDEO FOR THE DENTIST: HOW TO USE THE CLOUD TO HANDLE PATIENT CASES AND SEND DATA TO THE DENTAL LABORATORY

DENTIST

CLOUD

QR CODE

DENTAL TECHNICIAN

PATIENT

HOW TO USE DETECTION EYE ON THE PATIENT AND SHARE THE SCANS VIA A QR CODE ON SMARTPHONES

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PRACTICAL FOR THE DENTAL TECHNICIAN

FLEXIBILITY

Flexible export and data transfer, ideally via the dedicated cloud or through Zirkonzahn.Archiv, USB, e-mail and other file transfer methods

PRECISION

3D scans with detailed preparation margins; design of restorations with mandibular movements

SEAMLESS WORKFLOW

100 % integrated into Zirkonzahn's workflow and data management system (simple transfer of the acquired scans to the Zirkonzahn.Archiv, Zirkonzahn.Modellier and Zirkonzahn.Modifier software)

EDUCATION & SUPPORT

Access to dedicated webinars and courses to learn the complete workflow step by step; multilingual technical support to provide customers with a high quality and seamless service

CLOUD

Communication via cloud with the dentist: possibility to upload photos, videos, restoration previews as well as the tracking code of the case sent, so that the dentist can check the shipping status

COMMUNICATION WITH THE PRACTITIONER VIA THE CLOUD

THE SCANNER THAT MAKES THE DIFFERENCE TO YOUR PATIENTS

SEFETY

Autoclavable scan tips; no risk of infections and cross-contaminations, thanks to the "Motion Sensing" function, which minimises contact with the notebook

RELAX

Customisable background music to make the scanning process a more enjoyable experience for the patient

SPEED

Less chair time thanks to the simplified work process

COMFORT

Powder-free scanning process and choice of two different scan tip sizes

ZIRKONZAHN.DETECTIONEYE SOFTWARE

FEATURES OVERVIEW

✓ *Open file formats: export as STL, OBJ, PLY files and automatic alignment of the scan data*

✓ *Intuitive and simply structured user interface for an efficient work process*

✓ *Pre-design functions: preview of complete scans, alignment of scans, tooth marking, bite and undercuts control, automatic detection of preparation margins*

✓ *Settings for extra-oral use (e.g. model scans, Transfer Fork, etc.)*

✓ *Thanks to optimal algorithms and the high performance notebook, the entire jaw can be scanned in one workflow*

✓ *Data can be saved on the cloud with no extra costs and with illimited space*

✓ *By activating a special function, light intensity can be reduced in order to scan metal reconstructions or to avoid superficial artefacts when scanning highly translucent teeth*

✓ *The artificial intelligence automatically removes scanning artefacts. The software detects irrelevant data (e.g. soft tissues, fingers or the dentist's instruments) and removes them in real time to obtain clean scans*

ZIRKONZAHN.DETECTIONEYE SOFTWARE

✓ *Displaying undercuts can help clinicians during the teeth preparation process*

✓ *If rescanning is necessary, certain scan areas can be marked to keep them unchanged*

✓ *The scan depth of 22 mm permits the acquisition of scanbodies and periodontal situations*

✓ *The scan can be held in a fixed view to focus on specific areas*

✓ *Capturing highly detailed calculation during the scanning process; mesh refinement to display edges in a more precise way*

✓ *A realistic occlusion relationship can be achieved by recording mandibular movement and utilising it in the Zirkonzahn.Modellier and Zirkonzahn.Modifier software*

✓ *Scans can be swapped if the two jaws were accidentally inverted during the scanning process*

ZIRKONZAHN.DETECTIONEYE SOFTWARE
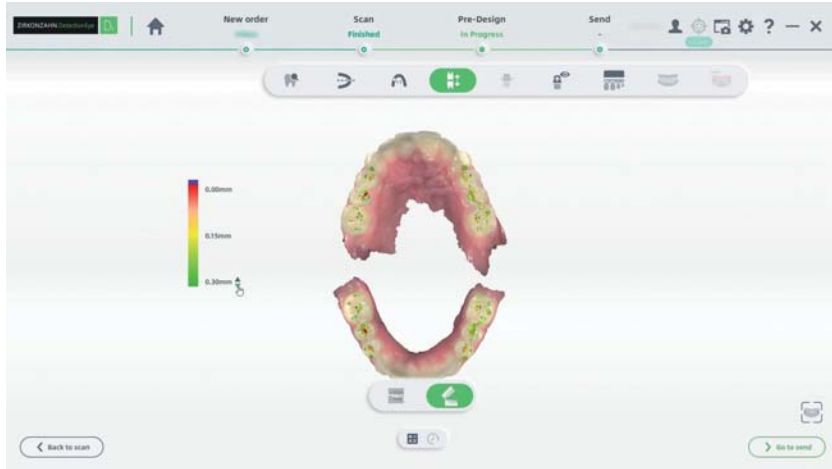
Bite control and correction – contacts and intrusions are marked in colours.
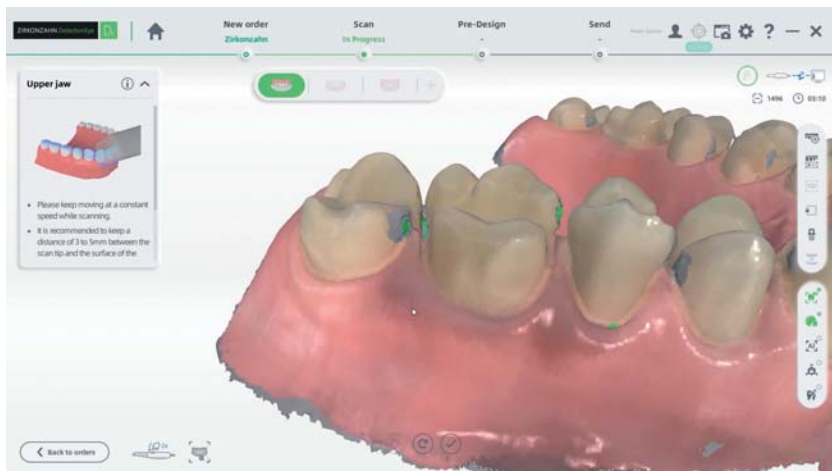
Green markings indicate that the area has not been scanned; grey markings indicate that the scan is in low quality and that extra scans should be performed to reach a maximum level of information.

ZIRKONZAHN.DETECTIONEYE SOFTWARE
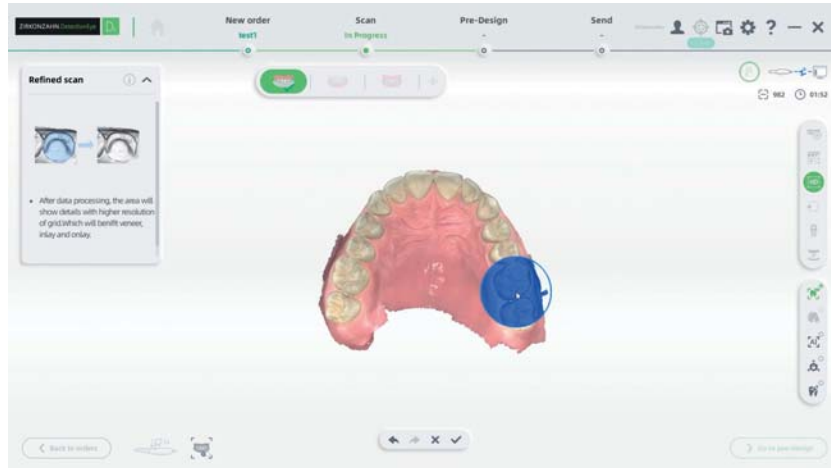
The brush tool allows the user to select the areas where the mesh has to be refined to display edges in a more precise way.

ACQUISITION METHODS

SCANNING OPTIONS	
Restoration	Crown, bridge (up to 6 units), inlay, onlay, veneer and antagonist
Implant	Full crown, small bridges within a quadrant (in the future, also full arches)
Orthodontics	Any orthodontic treatment
Other	Different further scanning options

The scanner can register all common restoration typologies (e.g. crowns, bridges, veneers, inlays/onlays).

ACQUISITION OPTIONS

To achieve optimum scan body detection, the emergence profile is cut out of the overview in the scan process.
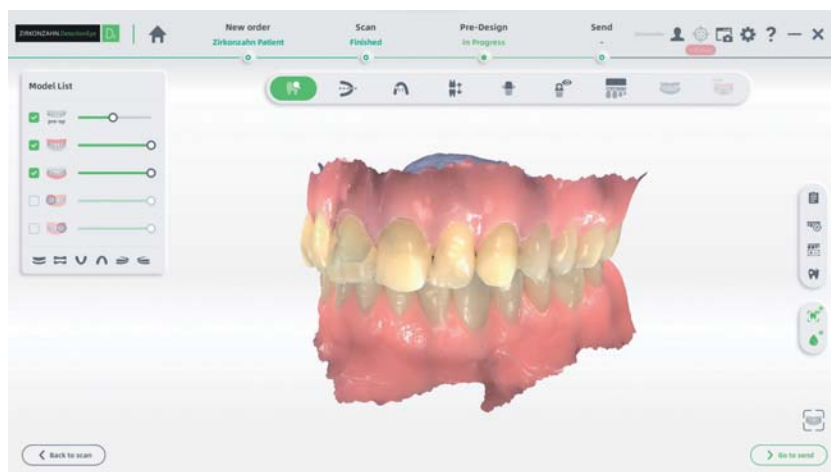
The preoperative situation can be scanned before die preparation (e.g. the anatomical tooth or the temporary crown).

ACQUISITION METHODS
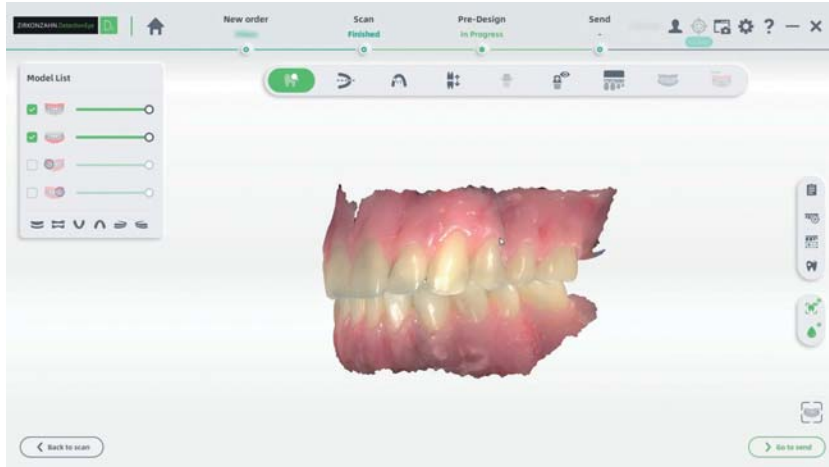
The scanner enables the digitisation of any type of orthodontic treatment (e.g. aligners or bite splint).

Preparation of an Oral Health Report with all clinical information of the patient. The dentist can include notes on the patient health conditions, as well as screenshots of the intraoral scans or pictures of the patient's mouth taken directly with the scanner.

DETECTION EYE

FULLY INTEGRATED INTO ZIRKONZAHN'S WORKFLOW AND DATA MANAGEMENT SYSTEM

TECHNICAL DATA

Dimensions (L x W x H)	*281 mm x 46 mm x 33 mm*
Scan tips	*Standard tip: 16 mm x 12 mm* *Small tip: 12 mm x 9 mm* *Scan tips can be autoclaved up to 100 times*
Size of the measuring field	*Up to 22 mm depth for both scanning tips*
Weight	*240 g (without cable)*
Scanning time per jaw	*< 60 seconds*
Output formats	*Open: STL, OBJ, PLY*
Functioning	*Non-contact optical scanner*

ZIRKONZAHN
SUPPORT

AN EVEN MORE COMPLETE WORKFLOW FOR MODEL PRODUCTION

PRINT
NEW! P4000 Printer and
Printer Resin Waterbased Beige

**DIGITAL MODEL
MANUFACTURING**
NEW! Zirkonzahn.Modifier and
Zirkonzahn.Slicer software

CURING
NEW! L300
Post-Curing Lamp

SCANNING
NEW! Detection Eye
intraoral scanner

**PLASTER-FREE
ARTICULATION**
NEW! JawAligner
PS1 and ZS1
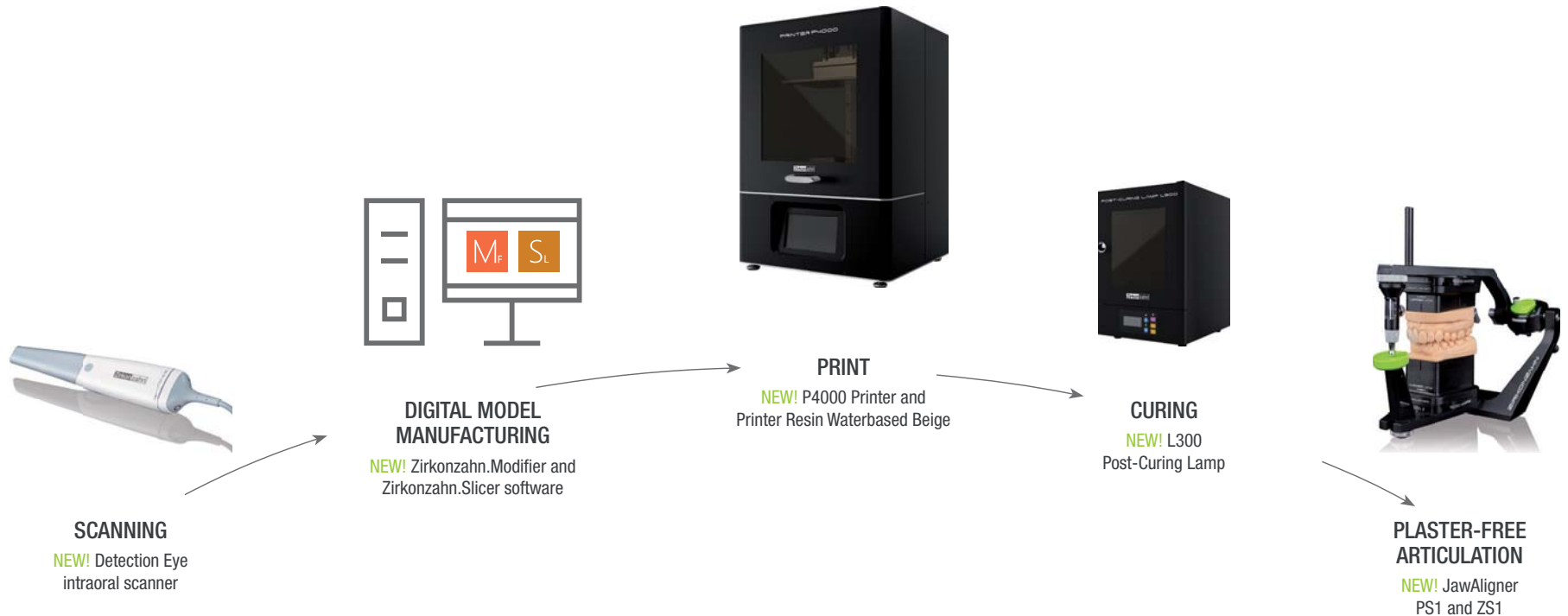
MORE INFO
DOWNLOAD THE BROCHURE

MORE INFO
OPEN THE WEB PAGE

ZIRKONZAHN.SUPPORT

"Everything from a single source" is the principle that has always guided our company, allowing us to work without compromise, knowing every detail of our products and thus offering our customers an exclusive privilege: a thorough support service covering all technical and dental technical needs. Our international and multilingual support team, consisting of dental technicians as well as software and hardware experts, is at our customers' disposal for all matters.
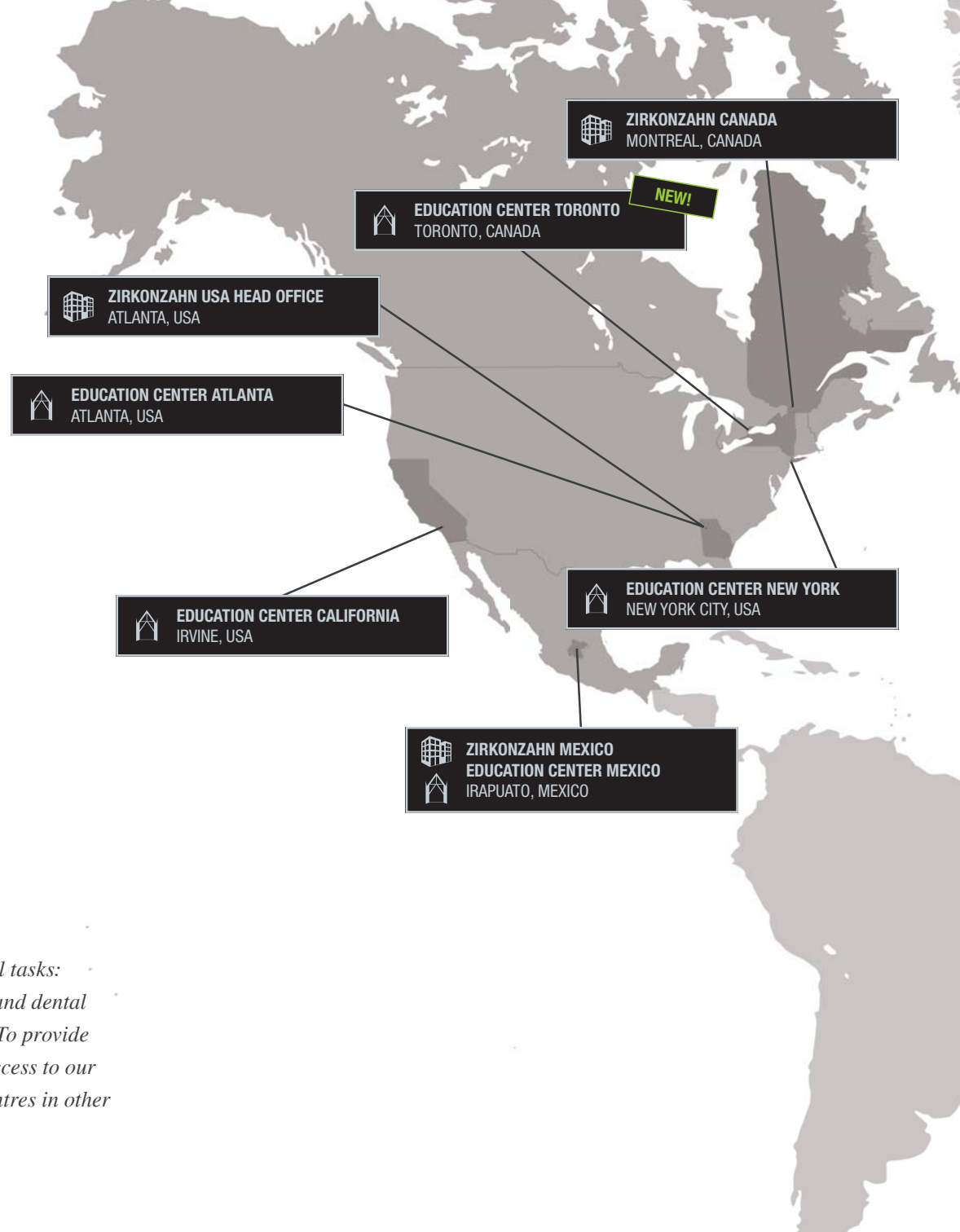
Zirkonzahn

ZIRKONZAHN CANADA
MONTREAL, CANADA

EDUCATION CENTER TORONTO NEW!
TORONTO, CANADA

ZIRKONZAHN USA HEAD OFFICE
ATLANTA, USA

EDUCATION CENTER ATLANTA
ATLANTA, USA

EDUCATION CENTER NEW YORK
NEW YORK CITY, USA

EDUCATION CENTER CALIFORNIA
IRVINE, USA

ZIRKONZAHN MEXICO
EDUCATION CENTER MEXICO
IRAPUATO, MEXICO

ZIRKONZAHN WORLDWIDE

At our headquarters in Gais (South Tyrol, Italy) we take care of all tasks: from research and production, to customer support for technical and dental technical issues, through the marketing and sale of our products. To provide all our customers worldwide with the best possible support and access to our training, we have established additional offices and education centres in other ten countries.

STONEHENGE® - THE HOUSE OF LEARNING
HEIDEN, GERMANY

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EDUCATION CENTER NEULER
NEULER, GERMANY

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ISLE OF DOGS, LONDON, UK

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WARSAW, POLAND

EDUCATION CENTER HUNGARY
BUDAPEST, HUNGARY

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PRETTAU, SOUTH TYROL

ZIRKONZAHN IBÉRICA
EDUCATION CENTER IBÉRICA
BARCELONA, SPAIN

ZIRKONZAHN MOUNTAIN MONASTERY
CAMPO TURES, SOUTH TYROL

ZIRKONZAHN PREMOLARIS
CAMPO TURES, SOUTH TYROL

NEW!

ZIRKONZAHN MOLARIS I
MOLINI DI TURES, SOUTH TYROL

ZIRKONZAHN MOLARIS II
MOLINI DI TURES, SOUTH TYROL

NEW!

ZIRKONZAHN HEADQUARTERS
GAIS, SOUTH TYROL

ZIRKONZAHN HELDENCAMPUS
MOLINI DI TURES, SOUTH TYROL

ZIRKONZAHN VERONA
EDUCATION CENTER VERONA
VERONA, ITALY

ZIRKONZAHN FORGE
MOLINI DI TURES, SOUTH TYROL

ZIRKONZAHN AUSTRALIA
EDUCATION CENTER AUSTRALIA
SYDNEY, AUSTRALIA

NEW!

ZIRKONZAHN CANINUS
DOBBIACO, SOUTH TYROL

NEW!

ZIRKONZAHN RANGER SCHOOL
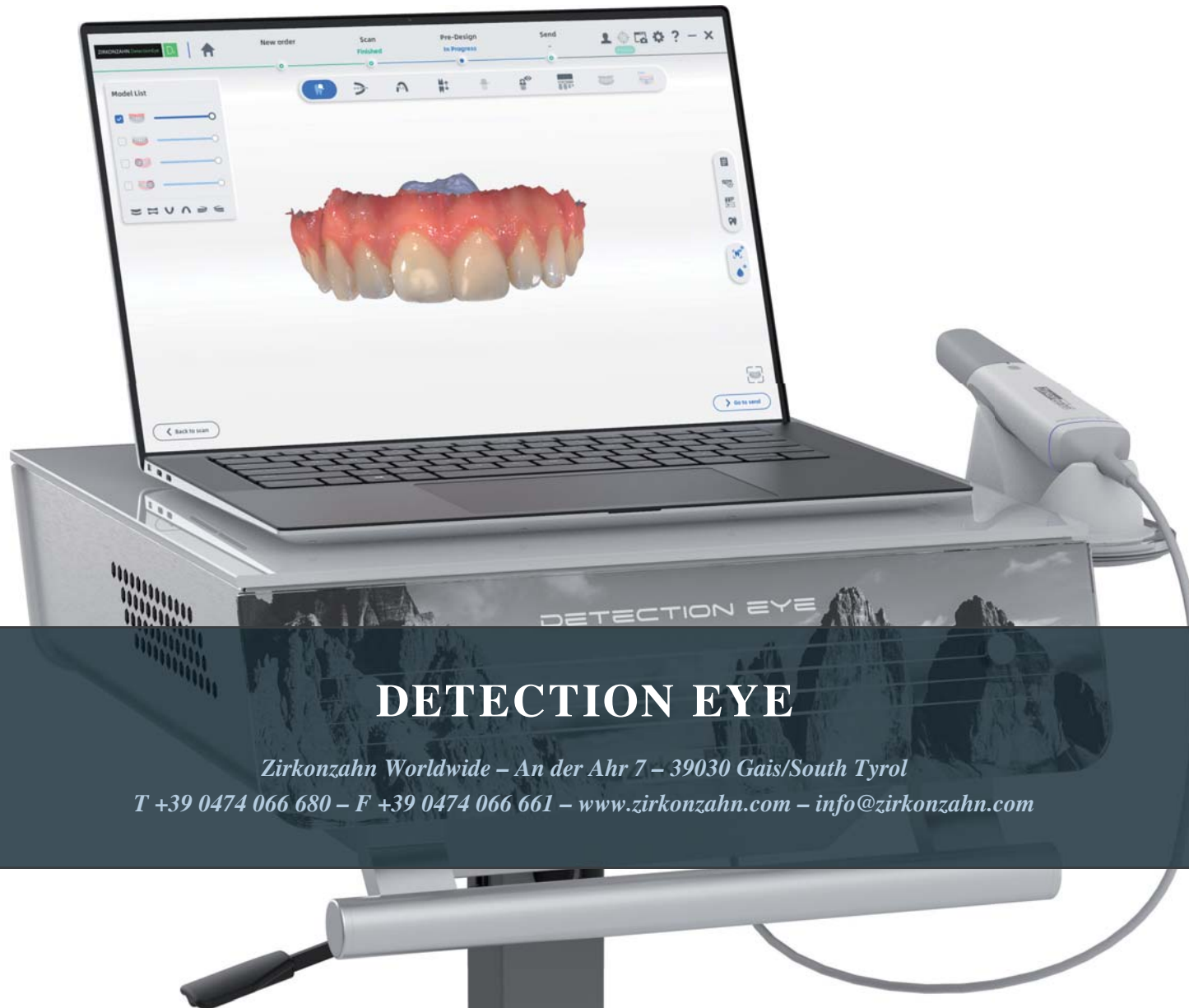MOLINI DI TURES, SOUTH TYROL

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BRUNICO, SOUTH TYROL

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MOLINI DI TURES, SOUTH TYROL

KLINIK DEMEDICI
MOLINI DI TURES, SOUTH TYROL

ZIRKONZAHN MILITARY SCHOOL
MOLINI DI TURES, SOUTH TYROL

DETECTION EYE

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