IPG — Intraoral Photogrammetry

SHINING 3D has introduced a groundbreaking innovation, Intraoral Photogrammetry Technology (IPG), revolutionizing precision and efficiency in dental implantology. This unique technology from SHINING 3D integrates photogrammetric scanning directly into intraoral procedures, enhancing the precision and efficiency of full-mouth edentulous implants, particularly in All-on-X procedures. IPG simplifies workflow and promises to elevate treatment outcomes by seamlessly combining intraoral scanning with advanced photogrammetry techniques, setting a new standard in dental care.

IPG + SCAN

5μm

Two-in-One System

High Precision

High Efficiency

Benefits of IPG Technology

Great Accuracy

Integrated with advanced image processing algorithms and real-time dynamic tracking technology, IPG uses coded patterns on the scanbody as accuracy control points. IPG technology guarantees global accuracy and consistency.
Elite offers rapid recognition and precise calculation of positional posture, ensuring perfect placement of passive implants during the final restoration process.

Great Efficiency

IPG technology offers a revolutionary approach to streamlining the scanbody positioning process by just scanning coded patterns on the scanbodies' top surfaces. This approach replaces the traditional methods of labor-intensive intraoral multi-angle scanbody scanning, simplifying and accelerating the acquisition of complete scanbody profiles with greater efficiency and precision.
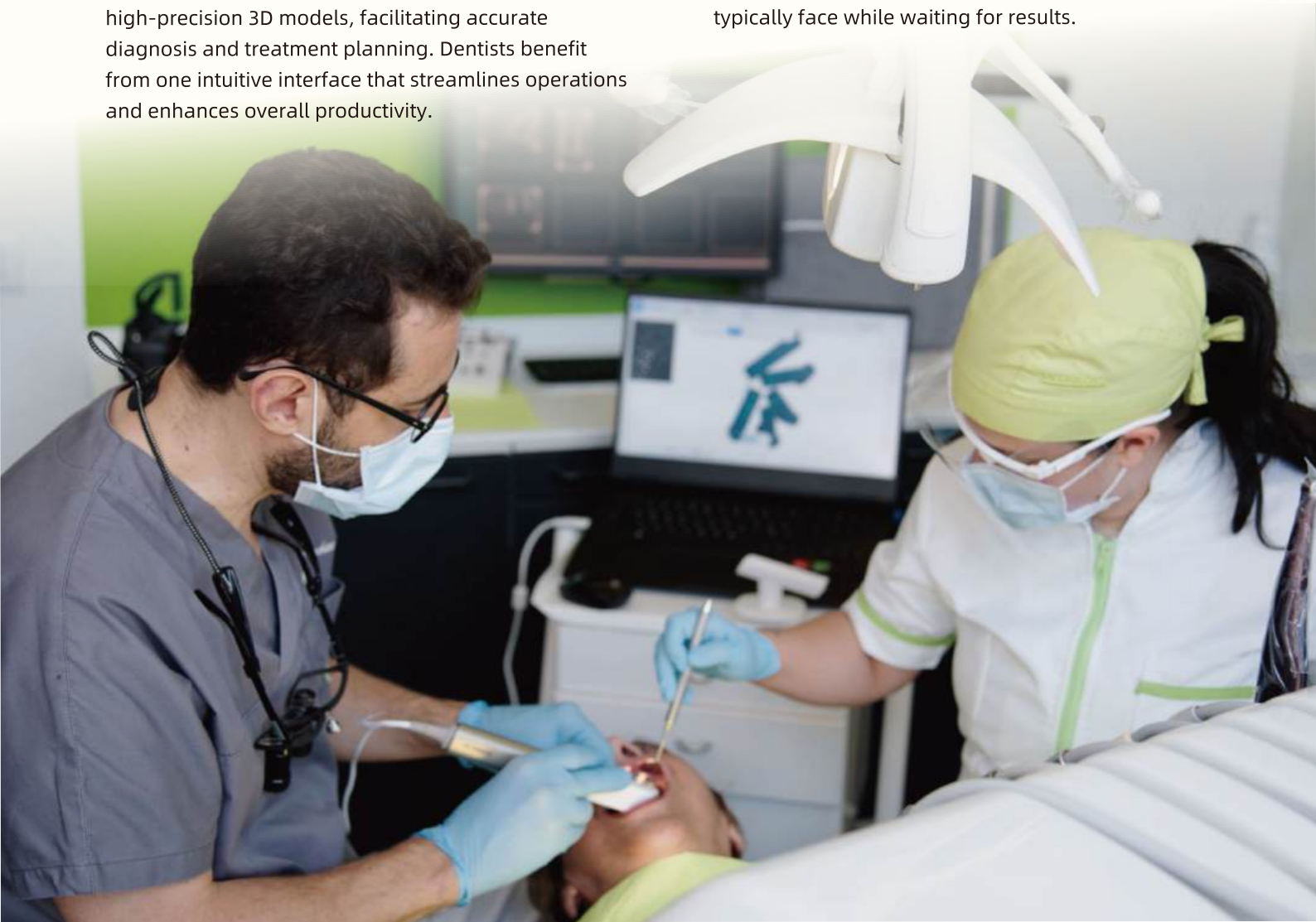
Benefits of IPG Technology

Simplified Workflow for Doctors

Aoralscan Elite's 2-in-1 system offers a seamless blend of intraoral scanning and photogrammetry functionalities. Integrating these two processes into a single unit simplifies dental workflows, saving time and resources. Elite's advanced technology captures high-precision 3D models, facilitating accurate diagnosis and treatment planning. Dentists benefit from one intuitive interface that streamlines operations and enhances overall productivity.

Great Experience for Patients

Aoralscan Elite also brings patients a more comfortable and accurate diagnostic and treatment experience. Aoralscan's precision ensures that diagnosis is not only more reliable but also faster, relieving anxiety and the uncertainty that patients typically face while waiting for results.

" *Photogrammetry is the gold standard for accuracy, but existing devices using photogrammetry are typically extra-oral. The Elite is the first to combine photogrammetry with an intraoral scanner, making it a two-in-one device that is more compact, more affordable, and easier to use. The way I see it, this is gonna revolutionize the implant working practice.* "

- Professor Sun Yuchun, Director of the Center of Digital Dentistry, Peking University School of Stomatology, China

" The Elite scanner is a dual-purpose device, merging IOS (intraoral scan) capture with the latest innovation for full arch scanning implant scanning, IPG (intraoral photogrammetry). This IOS/IPG scanner has opened up a new frontier for full arch implant capture accuracy, utilizing innovative scan matching features of photogrammetric bodies to tissue or markers, reducing scanning time, chair time, and laboratory design. Bundled with the full array of Shining 3D products, the Elite has made same-day full arch treatment a reality. "

- Dr. Isaac Tawil, DDS MS, United States

" With the Aoralscan Elite, taking intraoral scans for edentulous patients is incredibly efficient. The scanner's precise intraoral registration ensures accuracy without the hassle of additional photogrammetry equipment. It's a game-changer for dental professionals. "

- Prof. Adam Nulty,
President of the IDDA, United Kingdom

Smooth Scanning for Edentulous Cases

IPG technology ensures a seamless scanning experience for edentulous patients.

Aoralscan Elite Adopts the IPG tip, which is larger than standard, to capture every detail of the edentulous patient's oral geometry with unparalleled clarity.

The high-resolution data received after the scan allows dentists to precisely evaluate soft tissue contours and identify any abnormalities within the oral cavity, ensuring high-quality results in edentulous cases.

Dr. Alessio Franchina,
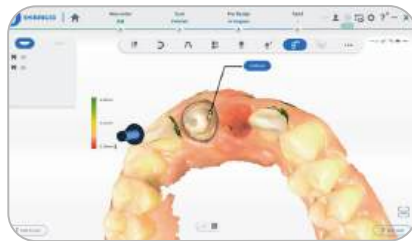Oralee clinic Vicenza, Italy

IPG Tip

19mm

14mm

Outstanding Scanning Performance

The Aoralscan Elite software is equipped with numerous powerful tools to optimize the scanning process and enhance efficiency.

AI Scanning

AI technology helps to remove unnecessary data during the scanning in real time, which makes the process smoother and more efficient.

Undercut Check

Undercut values can be detected during scanning which facilitates an easy necessary assessment of further tooth preparation.
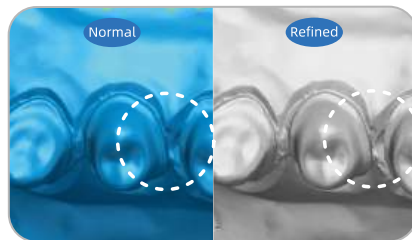

Motion Sensing

Motion sensing allows users to complete the entire scan workflow without touching anything other than the scanner itself to reduce the risk of cross-contamination and to increase the level of hygiene.

Bite Analysis

Bite analysis and sectioned views ensure an accurate occlusal relationship for subsequent applications.

Refined Scan Mode

This feature provides the restoration area with a clear margin and more detailed profile information.

Margin Line Auto-Extraction

Margin lines can be extracted automatically which increases work efficiency and improves communication between dentists and technicians.
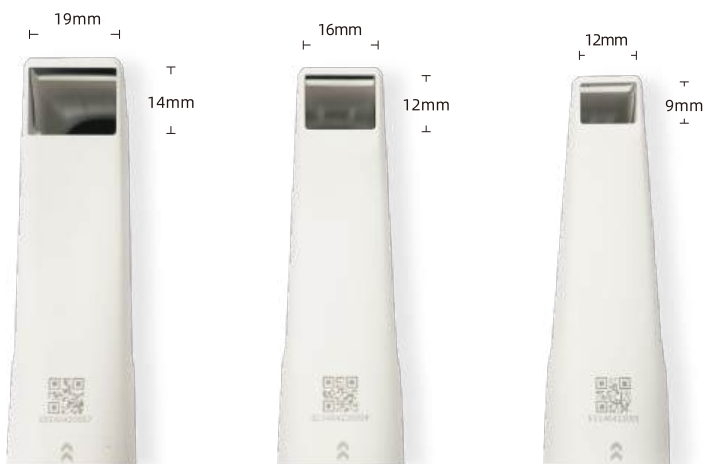
Slim and Light

Aoralscan Elite Intraoral scanner combines a compact size and lightweight structure. The ergonomic design allows Elite to fit into a hand comfortably, enhancing usability and convenience.

  Ultra-lightweight (124g)
  Compact dimensions (245x30x26mm)

Autoclavable for up to 100 cycles

19mm	16mm	12mm
14mm	12mm	9mm

IPG (big) tip
For edentulous cases

Standard tip
For adults

Mini tip
For pediatric use

124 g
Slim and Light

SHINING 3D

Lifetime Oral Health Management on SHINING 3D Dental Cloud

The Oral Health Report is an invaluable tool that greatly contributes to the overall management of a patient's oral health throughout their lifetime. This comprehensive report provides detailed information and analysis of various aspects of the patient's oral health, including symptoms, preventive measures, and treatment plans. With SHINING 3D Dental Cloud platform, clinics can store and manage all the patients' information systematically and track their long-term oral and facial changes, becoming patients' lifetime oral health management partner.

AI-powered analysis of oral diseases enhances diagnostic efficiency in clinics.

Effortlessly share reports with patients via QR code.

Features like graffiti mode, 3D labels for an overall view, and direction guidance streamline communication between dentists and patients.

Tools such as the Bolton Ratio, molar relationship, overjet and overbite measurements, and an occlusion map offer comprehensive analysis.

Scan to see more on YouTube

Dental Toolkits

The dental toolkits developed by SHINING 3D are user-friendly software that offers a variety of innovative functions specifically designed for clinical use. These tools range from ortho simulation to oral health reports, data tracking, crown and model design, splint, and IBT design modules. These provide clinics with increased flexibility and many possibilities for daily practice.

ConsulOS

The ortho-treatment process can be simulated, and patients will be able to preview the post-treatment effect in advance.
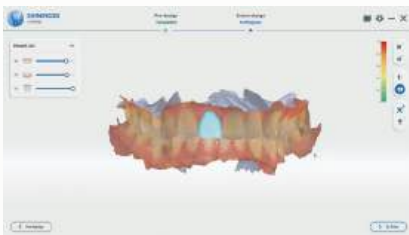

MetronTrack

With the measurement and comparison functions, it helps improve dentist-patient communication efficiency and effectiveness by tracking patients' data.

CreSplint

A smart tool that allows users to design retainers or night guards automatically with minimum operation.

CreTemp

Temporary crowns can be designed and printed in the clinic, reducing the patient's waiting time.

CreIBT

Designs an indirect bonding tray, which can be directly 3D printed to help orthodontists attach brackets faster and more accurately.

AccuDesign

Orthodontic or restoration models can be easily designed with AI for printing.

End-to-end Digital Dental Solution

SHINING 3D Dental provides end-to-end digital dental solutions, encompassing precise intraoral, face, and lab scanners, intuitive design, analysis, consultation tools, advanced 3D printing, washing and curing systems, various printing resin materials, and highly regarded Cloud services. These comprehensive solutions cater to a wide range of applications in digital dentistry and streamline daily dental procedures with an efficient digital workflow, leading to enhanced service quality and efficiency.

SHINING 3D
DENTAL

Technical Specifications
Aoralscan Elite

Scan Field of Single Frame	**IPG scanner tip:** 19mm × 14mm **Standard scanner tip:** 16 mm × 12 mm **Mini scanner tip:** 12 mm × 9 mm
Scan Depth	22 mm from exit surface of tip
Scan Principle	Non-contact scanner with structured light and Intraoral photogrammetry
Dimension (L × W × H)	245 mm x 30 mm x 26 mm
Weight	124 g (without cables)
Data Output	STL, OBJ, PLY
Connection Port	Type-C

Recommended PC Configuration

CPU	IntelCorei7-8700 or higher
RAM	16GB or more
Hard Disk Drive	256 GB SSD or above
Graphic Card (GPU)	NVIDIA ® RTX 2060 6GB DDR3 or higher
Operating System	Windows 10 Professional (64-bit) or later versions of Windows operating systems
Display Resolution	1920×1080, 60 Hz or higher
I/O Ports	Type-C

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