

Aoralscan Elite en

Intraoral Scanner

More Than IOS



IPG AND INTRAORAL SCAN



Two-in-One System

A revolutionary scanner equipped with Intraoral Photogrammetry (IPG) technology, elevating the All-on-X procedures to an unprecedented level.



Seamless Scanning for Edentulous Cases

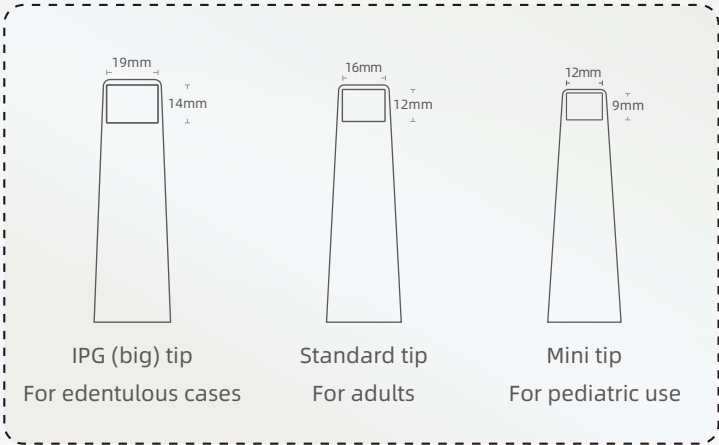
The addition in the form of a larger scan tip brings a wider scan view. The Aoralscan Elite ensures a smooth scanning experience for edentulous cases.



Compact and Light

This newly designed scanner combines a compact size and lightweight construction. Its ergonomic design allows it to fit into any hand comfortably, enhancing usability and convenience.

Ultra-lightweight (124g) and compact dimensions (245x30x26mm)



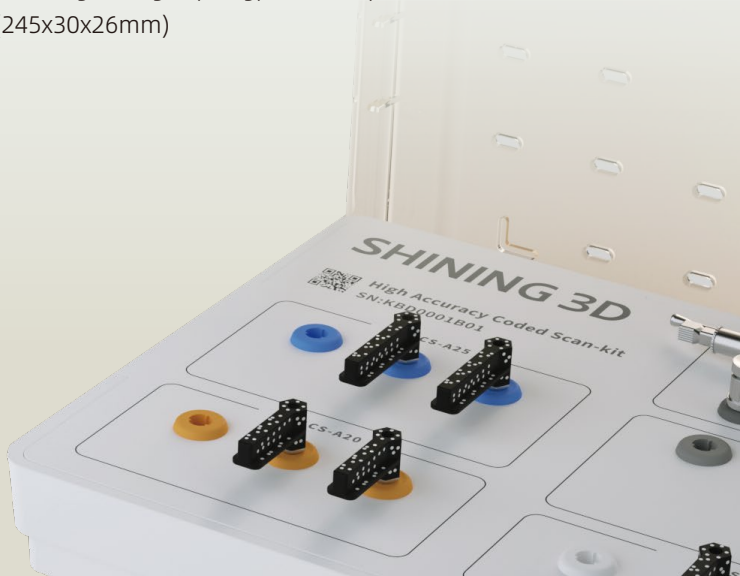
Motion-sensing technology reduces the risk of cross-contamination during operation

Seamless aluminum alloy body construction provides extra performance stability



Autoclavable for up to 100 cycles

The LED light indicator displays different statuses of the scanner



IPG TECHNOLOGY

IPG technology, also known as Intraoral Photogrammetry Technology, is an advanced dental digital solution that combines structured light 3D reconstruction and photogrammetry technology.

IPG technology originates from high-precision photogrammetry technology in the field of industrial metrology, which is widely used in large-scale scene measurement. Shining 3D innovatively has applied this technology to the dental field with multiple benefits, especially in the scanning of full-mouth edentulous implants.



Great accuracy

Integrated with advanced image processing algorithms and real-time dynamic tracking technology, it uses coded patterns on the scanbody as accuracy control points. IPG technology ensures global consistency and accuracy by combining algorithm optimization, fast recognition and accurate calculation of positional posture.

The large IPG scanning head specially designed for the Aoralscan Elite intraoral scanner effectively decreases the impact of soft tissue changes on the scanning results, further improving the accuracy of implant positioning.



Great efficiency

IPG technology provides the possibility to capture the scanbody position by simply scanning coded patterns on the top surface of scanbodies, instead of the laborious process of intraoral multi-angle scanbody scanning to acquire the full profile.

This innovation reduces the complexity of traditional multi-step and multi-device operations, utilizing 2-in-1 technology to enable a single device to complete full-mouth implant restoration.



Great experience

What's more, this system also brings patients a more comfortable and accurate diagnostic and treatment experience.

“ The Shining 3D scanner is a dual-purpose scanner: intraoral scan capture and photogrammetric scanning capabilities. The black and white photogrammetry is bundled into one ergonomically sleek unit. Truly revolutionary. Not just because you can do both, but because you can do both and have it matched seamlessly, easily. ”

- ISAAC TAWIL, DDS MS, The USA



Smooth Scanning for Edentulous Cases

Advanced scanning technology guarantees a seamless edentulous scanning experience.

Aoralscan Elite can capture every detail of the edentulous patient's oral geometry with unparalleled clarity.

The obtained high-resolution images allow dentists to precisely evaluate soft tissue contours and identify any abnormalities within the oral cavity broadening the scope of application in edentulous cases.



“ 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. ”

- Adam Nulty, President of The IDDA, United Kingdom



Outstanding Scanning Performance

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

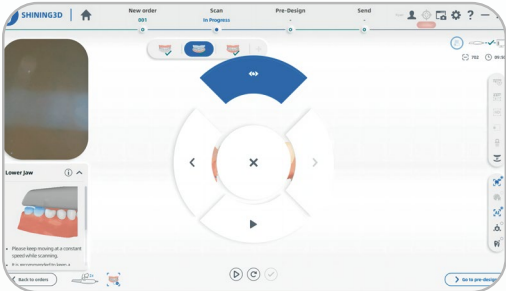
AI Scanning

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



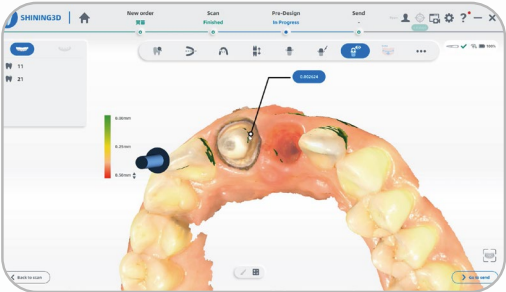
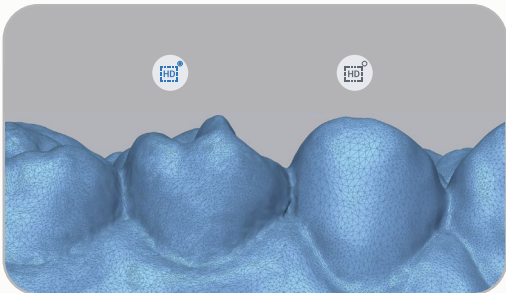
Motion Sensing

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.



Refined Scan

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

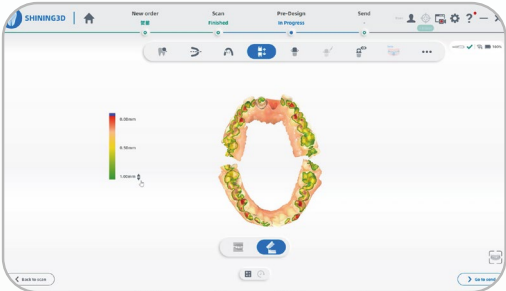


Undercut Check

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

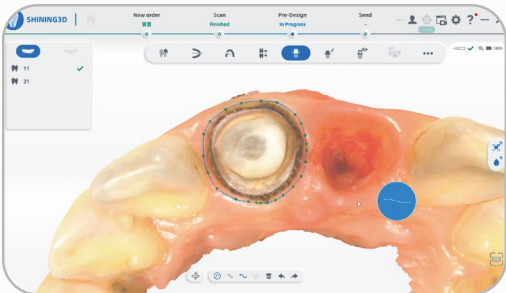
Bite Analysis

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



Margin Line Auto-Extraction

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



Various Applications in the Dental Industry

The scanner could be applied in a wide range of dental applications, such as All-on-X, regular implant, bridge, crown, inlay, and onlay. It can also be adopted for orthodontics and oral health management.



Orthodontics



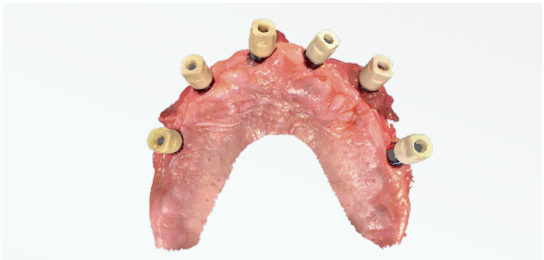
Veneer



Inlay-onlay



6-Unit Bridge



All-on-6 Implant



Pediatric Dental Care

Lifetime Oral Health Management

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 Shining3D Dental Cloud platform, we can store and manage all the patients' information systematically and track their long-term oral and facial changes.



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



Effortlessly share reports via QR code.



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

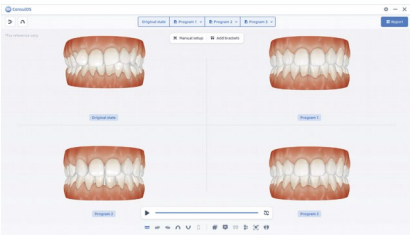


Tools such as the Bolton Ratio, molar relationship, overjet and overbite measurements, and an occlusion map offer comprehensive analysis.



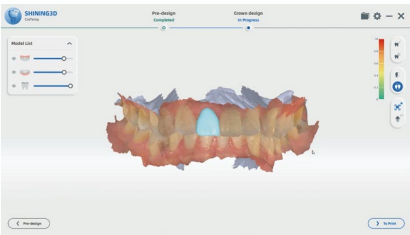
Dental Toolkits

The self-developed, user-friendly software offers a range of innovative function modules tailored for clinical use. From ortho simulation, oral health report, and data tracking to crown, model, splint, and IBT design modules, all these toolkits provide clinics with more flexibility and possibility in 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. Design Module



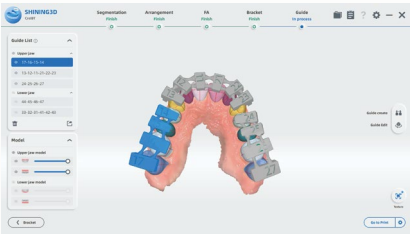
CreSplint

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



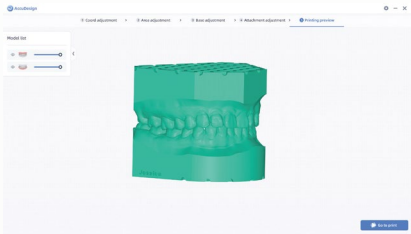
CreTemp

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.

SHINING 3D Dental Cloud


The Shining 3D dental cloud serves as a pivotal bridge connecting dentists and technicians, facilitating seamless data transfer, ensuring secure storage, optimizing patient management, and streamlining printer administration.




Dashboard
Visual data management center to assist institutional management.



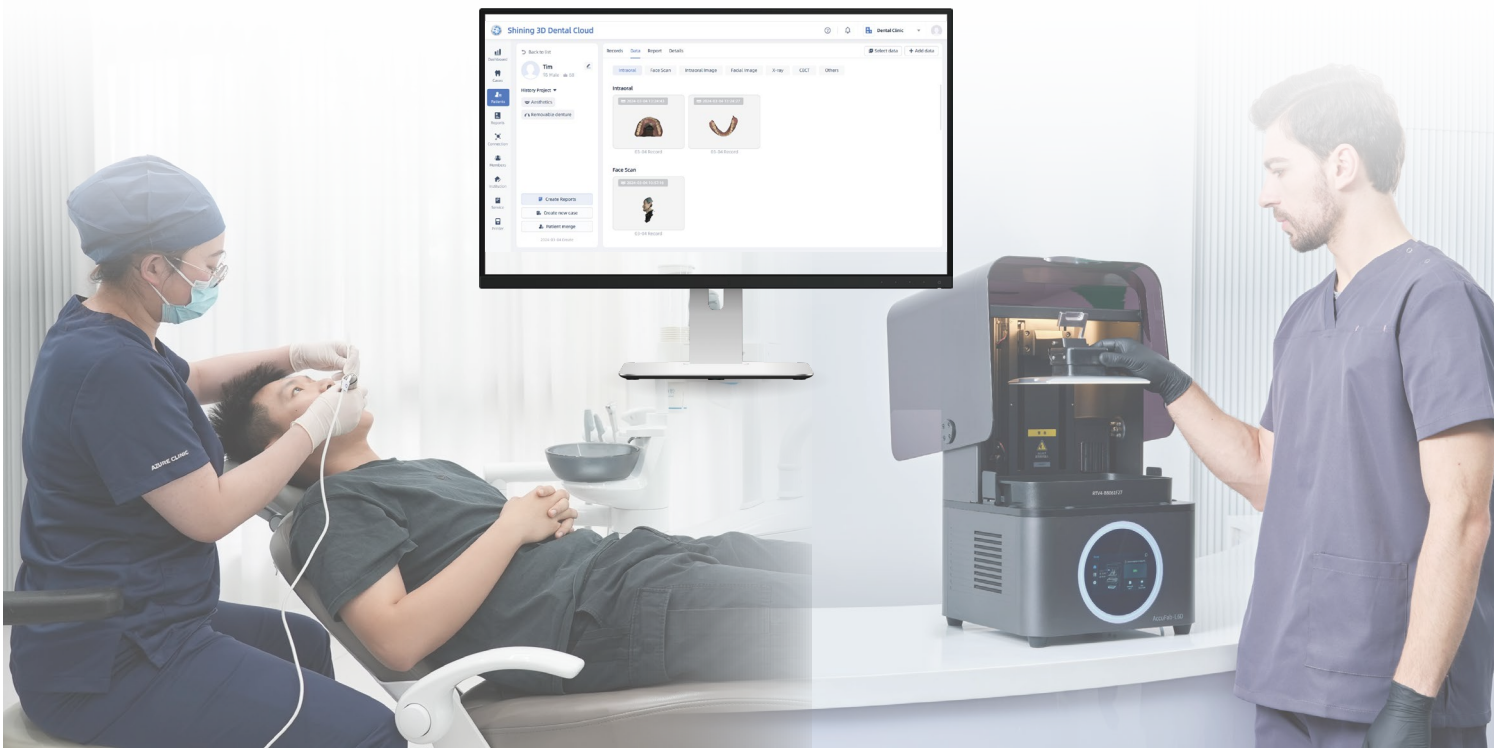
Data Assessment
Streamlines scan data confirmation process between dentists and technicians.



Patient Management
Convenient tool to check patients' past medical records at any time.



Printer Management
Monitors and manages the printers in real time to improve production efficiency.



End-to-end Solution

With its comprehensive suite of cutting-edge products encompassing an intraoral scanner, face scanner, 3D printer, washing and drying system, dental cloud platform, as well as design and communication tools, Shining 3D offers an End-to-end Solution that guarantees a flawlessly integrated workflow for all dental applications.



Technical Specifications

Aoralscan Elite

Scan Field	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)
Output	STL, OBJ, PLY
Connection Port	Type-C

Recommended PC Configuration

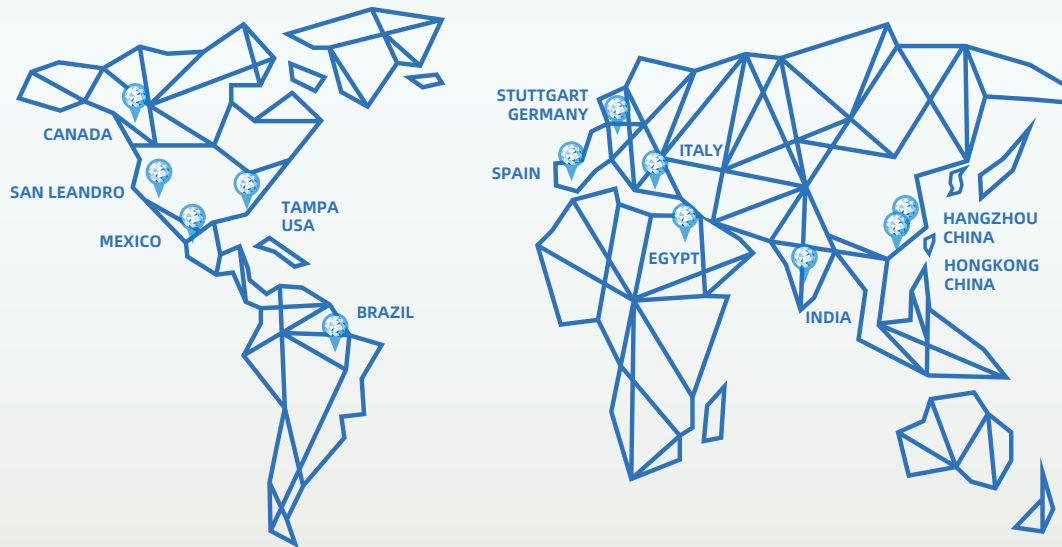
CPU	IntelCorei7-8700 or higher
RAM	16GB or more
Hard Disk Drive	256 GB SSD or above
Graphic Card (GPU)	NVIDIA ® RTX 2060 6GB DDR3 or higher
Operating System	Windows 10 Professional (64-bit) or later versions of Windows operating systems
Display Resolution	1920×1080, 60 Hz or higher
I/O Ports	Type-C

SHINING 3D
DENTAL

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GO DIGITAL WITH SHINING 3D

SHINING 3D provides fully integrated 3D digital dental solutions through acquiring 3D data with desktop and intraoral 3D scanners, designing with professional dental CAD software and manufacturing dental products with 3D resin printers to create working models, orthodontics models, implant models, surgical guides, wax-ups, and partial frameworks.



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