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CASTELLINI

IMAGING
AlphaScan WL

MAKING SPACE FOR EXCELLENCE

AlphaScan WL

WIRELESS 3D INTRAORAL SCANNER

Castellini introduces the AlphaScan WL wireless intraoral scanner, providing ultra-precise digital impressions. With an accuracy of 20 µm, an 18 mm depth of field, the use of AI and a set of applications and engineering solutions designed to optimise workflow, the cutting-edge ViSIOScan WL boosts your dental practice's clinical capabilities and efficiency.

Sleep Mode & Instant Wake

Wireless charging

Backup battery

WIRELESS, FLAWLESS

AlphaScan WL is a wireless scanner that maintains maximum efficiency at all times thanks to outstanding autonomy and immediate start-up. AI algorithms and digital workflow solutions optimise results and operability.

Precision 20 µm

Depth of field 18mm

AI artificial intelligence

Autonomy 60 cases on a single charge

Remote control

245 G

Impact resistant

ALL-IN-ONE

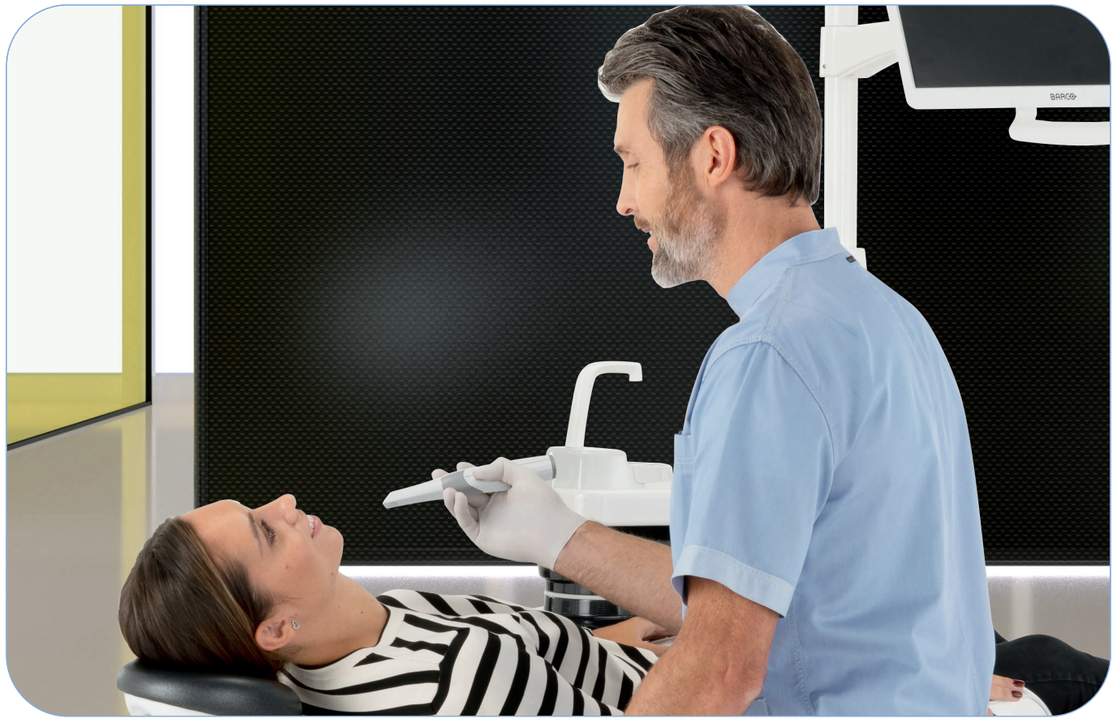
AlphaScan WL is a masterpiece of optimisation. Both data transmission and charging are wireless. No cable means a simpler scanning phase, but without compromising data transmission speed. What's more, the connection remains reliable at all times thanks to a latest-generation wireless dongle with an extensive operating range. To charge, simply place the handpiece in its cradle.

ERGONOMICS AND STRENGTH

AlphaScan WL is one of the lightest and easiest to handle wireless scanners on the market. The charging cradle can be wall-mounted, freeing up space on the worktop. What's more, internal optics are protected against any impact and do not, therefore, require calibration.

AUTONOMY

AlphaScan WL ensures an operational autonomy of approximately 60 scans. It can therefore be used all day long without a recharge. The device nevertheless has an always-ready reserve battery to extend autonomy if necessary. When idle, the handpiece goes into sleep mode, but 'wakes' as soon as it is gripped.



COMFORTABLE AND PRACTICAL

A scan of the entire arch takes just 20 seconds, minimising discomfort for patients. What's more, users can choose between two different sizes of autoclavable tip to ensure adaptation to the oral cavity.

GYROSCOPE WITH DUAL SCAN BUTTON

The dual button on the handpiece lets you control the scanning phases by always using the same finger, even after rotating the scanner.

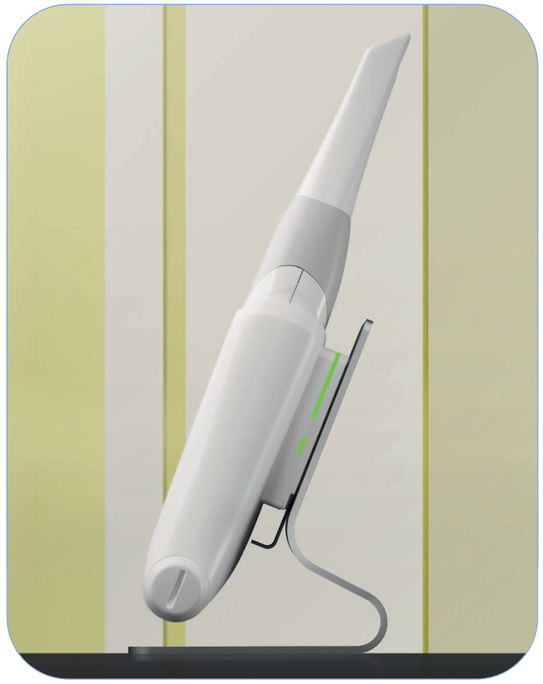
The internal gyroscope also allows the handpiece to be used as a mouse, allowing communication with the computer without having to leave the workstation.

OUTSTANDING QUALITY

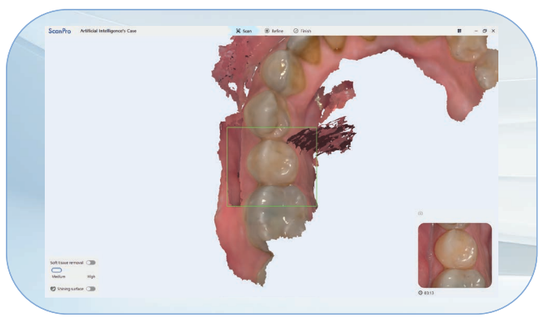
AlphaScan WL maximises image quality thanks to advanced AI-powered automation, a precision of 20 µm and a depth of field of 18 mm, one of the highest on the market. Images can be displayed in two modes: in realistic colours, to dialogue more effectively with the patient, or with sharp details to assess even the most complex clinical situations.

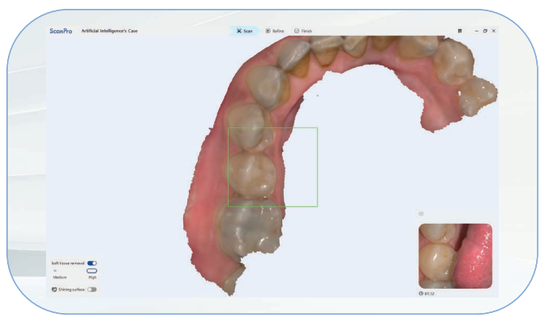
AI-ASSISTED ACQUISITION

AlphaScan WL has a camera with an ultra-high frame rate that lets you obtain digital models of the dental arches in moments.



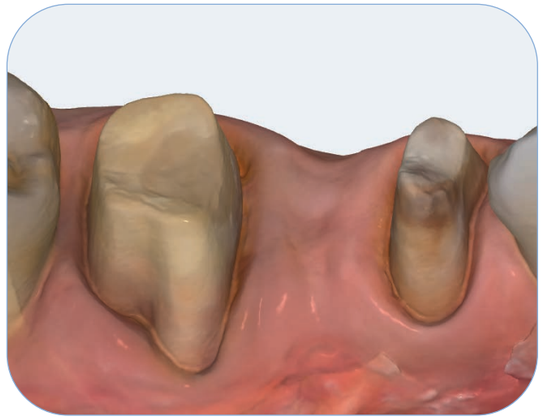
Adjustable-intensity AI performs real-time removal of artefacts or duplications, soft tissues such as the tongue or lips, plus fingers or other objects that might affect data quality.





20 µm SCAN ACCURACY

A latest-generation sensor and proprietary processing software provide extremely accurate images of the entire arch.

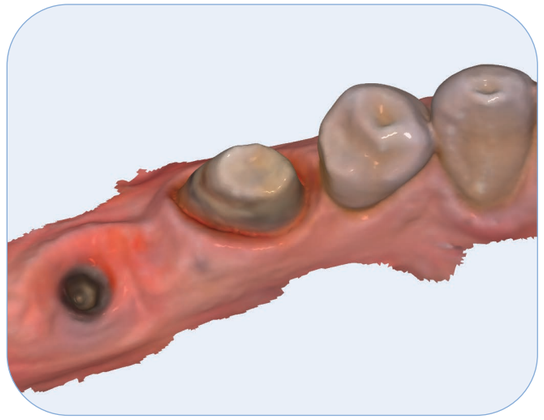


DEPTH OF FIELD

The 18 mm depth of field ensures good scans even in areas of greater complexity.

VIVID FILTER

Applying the vivid filter gives you an image with realistic colours similar to a normal photograph, making it easy for patients to understand.

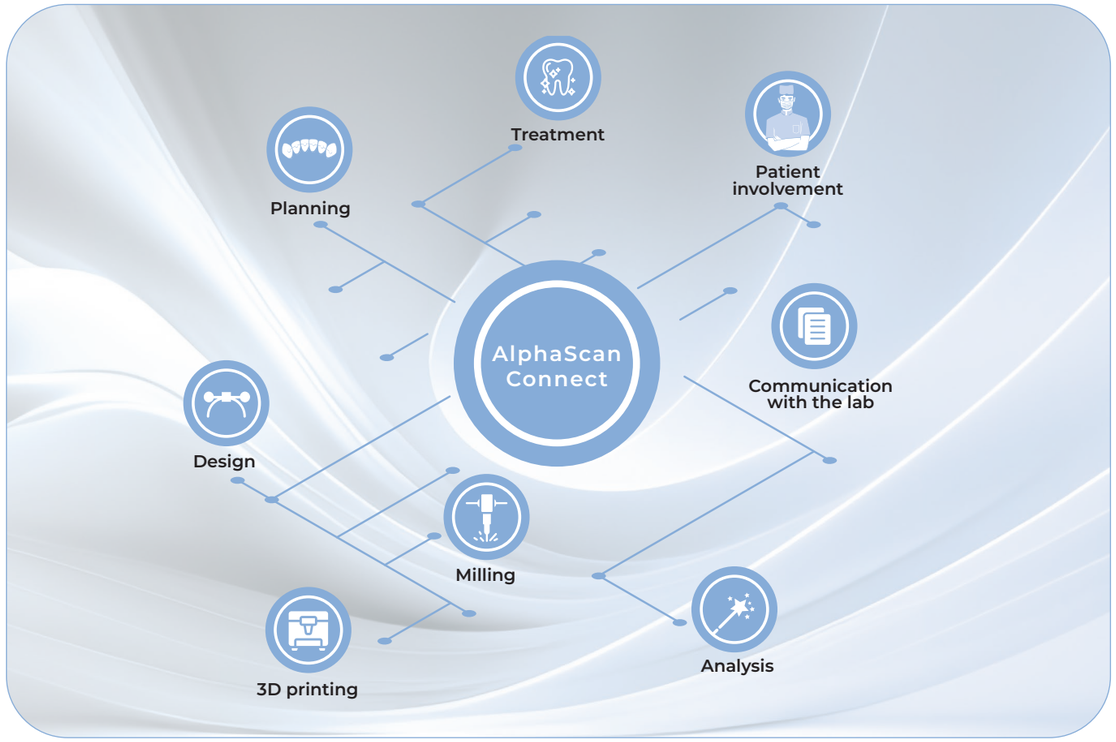


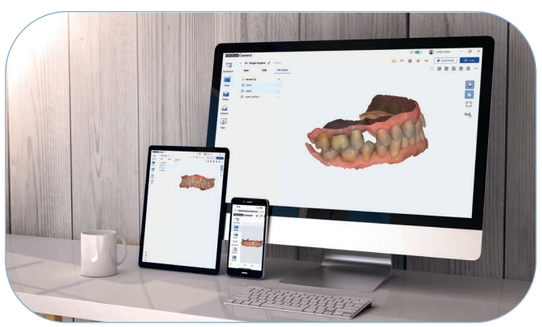
SHARP FILTER

The sharp filter provides a more detailed, clearer image, allowing for a better understanding of the situation in the oral cavity.

OPTIMISED WORKFLOW

The Intraoral Camera simultaneously provides 3D images and 2D photographs of the oral cavity: thanks to the AlphaScan Connect system, these can be shared with both the patient and the laboratory in real time. Moreover, AlphaScan WL features plug-ins dedicated to the integration of 3D printers or third-party services, allowing optimised workflows in the post-acquisition phases.



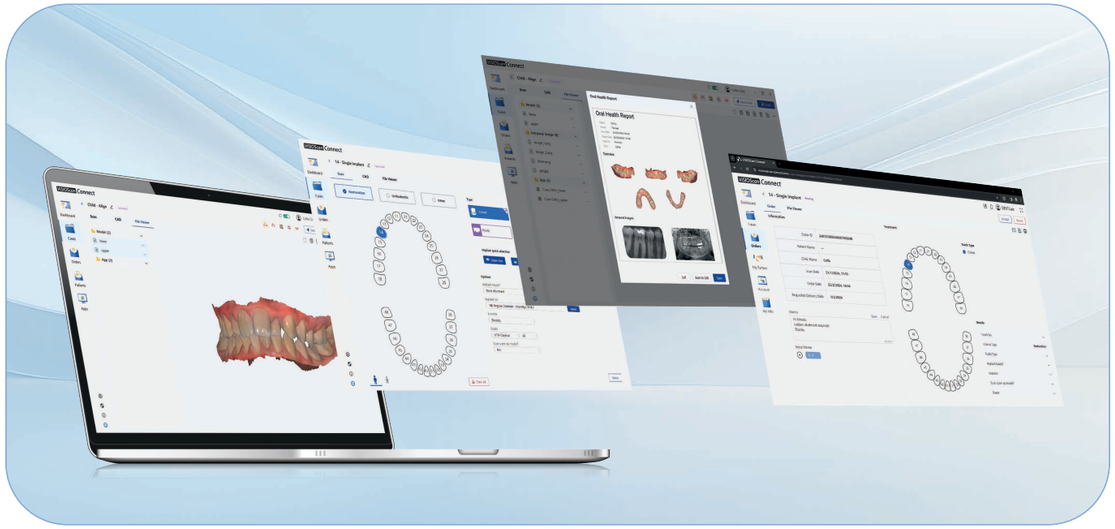


SCANPRO

Impressions obtained with AlphaScan WL have fields of application that range from implantology to orthodontics. The scan is managed by the ScanPro software, which features AI. ScanPro is equipped with a comprehensive range of tools for linear or interocclusal distance measurements, detection of any undercuts, scan verification and the application of high definition on specific anatomical areas.

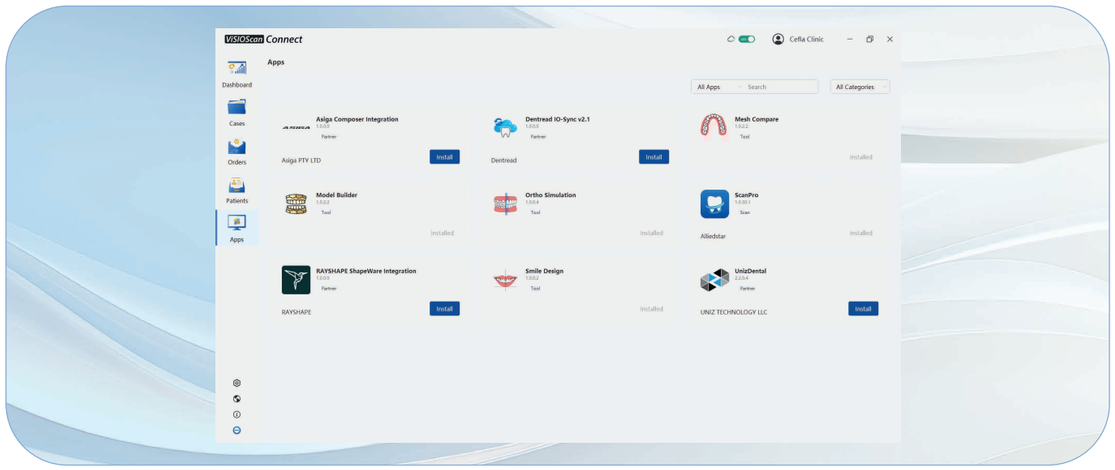
VERSATILITY

AlphaScan WL scans can be displayed on PC, Mac, laptop, tablet or smartphone as the web browser version of the software allows for multi-platform use.



IN-CLOUD SYNCHRONISATION

Thanks to auto-synchronisation tools, patient model and image data is available both locally and in-cloud. You'll therefore be able to check, share or request a restoration from the lab or service centre, and do so remotely, from any device.



CONSTANT UPDATES

Thanks to the integrated APP Store, which lets you install apps and keep them updated, AlphaScan WL remains fully efficient at all times.

A HI-TECH EXPERIENCE

The AlphaScan WL can be integrated with CBCT devices, offering your patients the best available technologies in dentistry. This lets you create virtual patients, design smiles, compare different oral health states, and perform chairside treatment or prosthetically guided implantology.

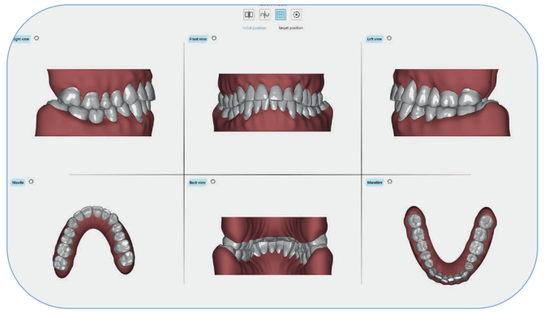
EXOPLAN®

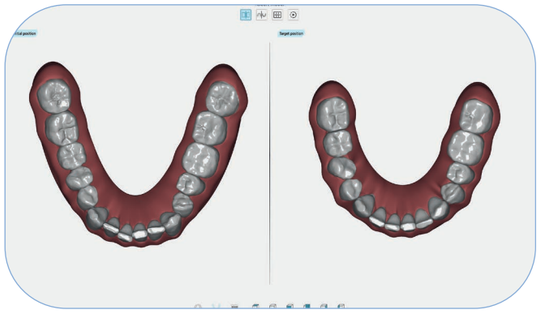
exoplan allows you to merge digital images such as face scans, optical impressions and 3D X-rays; it also lets you perform guided-procedure implant planning and surgical guide design.

A range of over 780 continuously updated libraries, containing more than 13,000 validated implants and more than 3,300 surgical components, allows optimal use of exoplan®.

EXOCAD SMILE CREATOR®

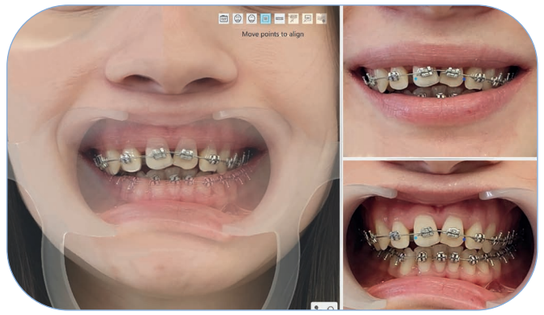
Smile Creator® provides a precise digital simulation of restorative treatment, allowing assessment of the aesthetic relationships between the patient's teeth, smile and face. Chairside - an integrated exocad module - allows you to apply optical impressions on patient photos or face scans, providing a preview of the renovation with in-CAD smile designs.

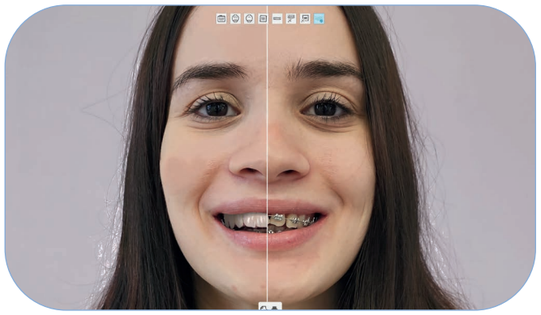




ORTHO SIMULATION

A virtual simulation can be created to show the patient before deciding on treatment.





SMILE DESIGN

Lets you explain the proposed treatment clearly and effectively.

ORAL HEALTH REPORT

Automatically produces patient oral health reports.

MODEL BUILDER

Creates, saves and prints a digital plaster cast collection.

MESH COMPARE

Allows you to assess how treatment is progressing by comparing two scans.

CASTELLINI
PASSION FOR DENTISTRY

Since 1935

HANDPIECE	
Weight	245 g
Dimensions (mm)	248 x 48 x 37
Power supply	Rechargeable battery
Remote Control	Yes
Keys	(Start scan & Mode)
Connectivity	Wireless
Batteries	2 pcs
Charging	Wireless system incorporated in the handpiece base (also for back-up battery)
Duration of a single battery	More than two hours with continuous scanning (about 60 cases)
SCANNING	
Accuracy (full arch)	20.0 µm
Acquisition depth	18 mm
Field of view (mm)	16 x 14 (with Large Tip) 12 x 12 (with Small Tip)
Calibration	Not Necessary
Tip dimensions	22 x 18 mm (with Large Tip) 18 x 16 mm (with Small Tip)
Sterilization	Autoclavable, over 60 cycles - 134°C for 4 minutes
SOFTWARE FUNCTIONS INCLUDED	
AlphaScan Connect	Patient data and image management
AlphaScan Connect WEB	Patient data and image management web platform
Auto-Synchronisation in the Cloud	YES
APP Store	Clinical and communicative applications can be downloaded, in-stalled and updated
Scan Acquisition	Acquisition software with clinical tools (measurement, drawing of margin line, undercut check, etc.)
Artificial Intelligence	YES (to remove soft tissues or artifacts from the scan)
APPS INCLUDED	
Smile Design	Aesthetic design of smile (requires acquired extraoral photos captured with camera or other device)
Oral Health Report	Report to share patient's oral health status with the patient or digital partner
Compare	Comparison of different acquisitions and monitoring of treatment progress
Ortho Simulation S	Orthodontic simulation performed via AI on digital models of the patient (for communicative purposes only)
Model Builder	Finalisation of models and preparation for printing (digitalization of the plaster cast collection)
MINIMUM AND RECOMMENDED PC REQUISITES	
Supported operating sy-stems	Microsoft® Windows® 10 (Professional 64 bit) and 11
Processor	LAPTOP: 11th generation Intel® CoreTM i5-11400H or AMD RyzenTM 7 5700U (minimum) 11th generation Intel® CoreTM i7-11800H or AMD RyzenTM 7 5800H (recommended) DESKTOP: 10th generation Intel® CoreTM i5-10600 or AMD RyzenTM 5 3600 (minimum) 10th generation Intel® CoreTM i7-10700 or AMD RyzenTM 7 3700X (recommended)
RAM	16 GB (minimum), 32 GB (recommended)
Graphics card	LAPTOP: Nvidia GeForce GTX 1660 6 GB (minimum), Nvidia GeForce RTX 2070 Super 8 GB (recommended) DESKTOP: Nvidia GeForce GTX 1660 Ti 6 GB (minimum), Nvidia GeForce RTX 2060 Super 8 GB (recommended
USB ports	3.2 Gen1 Type-A
Monitor	1920 x 1080, 60Hz
Conformity	IEC60950, IEC60601-1, IEC60601-1-2 (EMC)

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