

VistaSystem – the system solution for digital diagnostics

Everything you need for exceptional image quality – from a single source:



Dürr Dental – digital expertise for better diagnosis

For over 50 years dentists, clinics and X-ray centres around the world have been using innovative products from Dürr Dental and benefiting from our expertise in X-ray systems. During this period, our customers have taken around ten billion images with our imaging devices. Today, VistaSystem – our complete programme for digital diagnostics – is synonymous with outstanding image quality from a single source.

X-ray units, image plate scanners and intraoral camera systems from Dürr Dental ensure the best diagnosis options thanks to unrivalled image sharpness, maximum user friendliness and highest efficiency. Furthermore, our powerful imaging software perfectly links up all the components of VistaSystems.

Not content with providing outstanding products with award-winning designs, Dürr Dental also offers comprehensive services for your customised X-raying solution. Let us know what your requirements are – we will be glad to advise.

Testimonies from satisfied dentists:



Dr Trevor Morris, Australia

"We have been using Dürr VistaScan for our intraoral X-ray images since 2005. This system provides the same flexibility and ease of use as conventional X-ray methods. The processing time fits well with our treatment procedures, and the quality and durability of both the image plates and the device itself have reduced ongoing costs. Overall, we have been extremely happy with the performance."



Dr Heda Dengel, Germany

"I am really impressed with the image quality and speed of VistaPano. It delivers OPG images in just seven seconds that clearly show the roots of the front teeth, bone levels, maxillary sinuses and even caries in molars. Thanks to the clarity of the images, I normally don't need a second image taken with intraoral film – which means a significantly reduced radiation dose for the patient and a much, much easier workload for me."



Dr Amit Patel, UK

"I have been using VistaScan since 2012 and VistaCam since 2009. This equipment saves us a huge amount of time and money. I must admit, the conversion of our systems from film to digital radiology was very easy."



Start video

The video will give you a guided tour of our factory and provide you with exclusive insight into our production facility.



With all Dürr Dental products, sustainability is embedded in the product lifecycle management in development. We develop products that are designed for a long service life and – wherever possible – we make sure that they can be repaired in the field. We do our best to reduce power consumption – for example, VistaScan Mini View 2.0 consumes 37% less power than its predecessor VistaScan Mini.



We are proud that our production site in Gechingen has been CO₂ neutral since the start of 2023 (Scope 1 and Scope 2). The measures we have taken to make our production CO₂ neutral include a range of improvements – including moving our heating systems to renewable systems, generating electricity with our own photovoltaic systems, making improvements to walls, ceilings and windows in terms of energy efficiency, and switching over our vehicle fleet to electric vehicles.

VistaSoft AI included

The imaging software for digital workflows in dental practices



Website

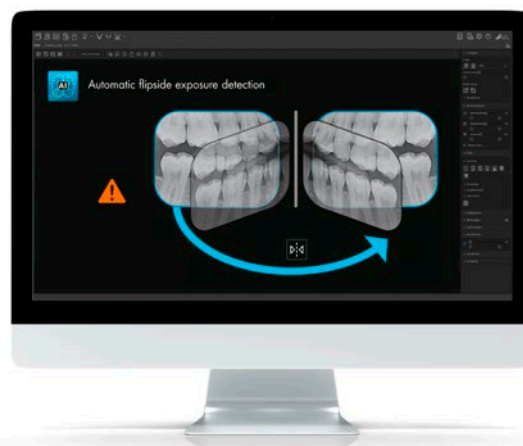


From acquiring and editing digital X-ray images and camera images to sharing images via the cloud and planning implants and drilling templates – VistaSoft brings together all of the different areas of dental imaging.



Automatic image rotation

The imaging software uses an algorithm based on artificial intelligence to check the orientation of intraoral X-ray images with the aid of the anatomical features shown and corrects the rotation of the image automatically if needed. This will save you valuable time.

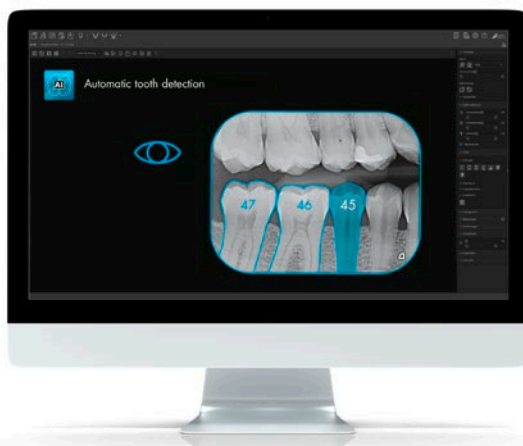


"Wrong side" exposure detection

VistaSoft AI automatically detects if the wrong side of the image plate has been exposed, and issues a corresponding warning for the user.

Automatic checking of image plate quality

In conjunction with VistaScan IQ image plates, VistaSoft AI enables automated checking of the quality of image plates. Here, the AI-assisted system automatically checks every single X-ray image to see if the image quality is deteriorating. In the process, the system assesses the condition of the image plate and automatically recommends its replacement, if necessary, to ensure that image quality remains consistently high at all times.



Automatic tooth detection

With the aid of artificial intelligence, all the teeth captured in the image are automatically detected and saved in the dental chart.



VistaSoft functions

VistaSoft X-ray

VistaSoft X-ray is compatible with all current X-ray and scanner systems from Dürr Dental. The module enables fast and reliable use of digital X-ray systems with highest image quality.

VistaSoft 3D

VistaSoft 3D offers different views for your diagnosis of CBCT images: pano views, transversal layer images (TSA) and multiplanar reconstruction (MPR).

VistaSoft Video

With VistaSoft you can easily control all current camera systems from Dürr Dental.

VistaSoft Inspect

With VistaSoft Inspect you can easily perform monitor tests, acceptance tests and consistency tests.

VistaSoft DICOM Starter

The DICOM interface from VistaSoft makes it really straightforward to receive patient data from or transmit images to DICOM systems.

VistaSoft Implant & Guide

With VistaSoft Implant, you have access to a state-of-the-art tool for complete pre-surgical implant planning.

VistaSoft Cloud

VistaSoft Cloud provides the perfect platform for sharing images easily and efficiently with colleagues, laboratories, clinics or patients.

SICAT

With SICAT Implant 2.0 your implant planning is now even easier than before. You can order SICAT drilling templates directly from the software to put your implant plans straight into practice.

VistaSoft Trace

With the aid of innovative and extensive tools using artificial intelligence, cephalometric analyses can be completed within a few seconds using VistaSoft Trace. This user-friendly software add-on identifies reference points and soft tissue silhouettes automatically and plots them on the X-ray image.

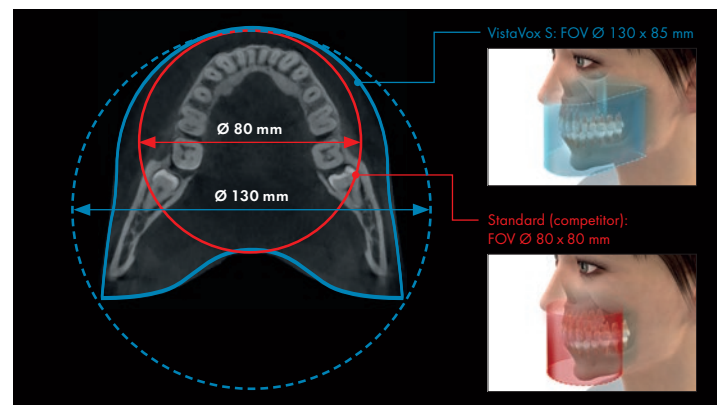
3Shape

The collaboration between Dürr Dental and 3Shape offers an intuitive workflow for patient management and brings together solutions that are tried and tested on a daily basis with users who can benefit from them.

VistaVox S – see what you need to see

3D and 2D X-ray images with exceptional image quality

An ideal imaging volume adapted to the shape of the jaw, easy positioning and exceptional image quality – the new VistaVox S represents a milestone in the field of 3D X-ray systems. Thanks to its unique technology, the 3D images generated with this system cover everything you need for reliable diagnoses, well-founded treatment decisions and convincing patient communication. In addition, the S-Pan technology of VistaVox S also enables pinpoint-accurate OPG image acquisitions in superior Dürr Dental quality. All of these things make VistaVox S not only a highly efficient solution for dental practices, but also a safe investment.

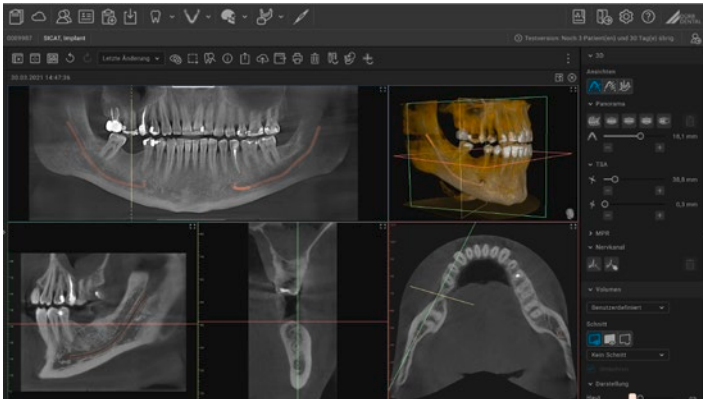


In order to visualise the FOV of VistaVox S (blue) in the axial view, the conventional standard volume of $\text{Ø } 80 \times 80 \text{ mm}$ (red) has also been marked here for comparison purposes. The jaw-shaped volume displays the region of a $\text{Ø } 130$ volume that is relevant for the diagnosis.

In addition to jaw-shaped images, VistaVox S offers ten further $\text{Ø } 50 \times 50 \text{ mm}$ volumes: five each for the upper jaw and for the lower jaw.

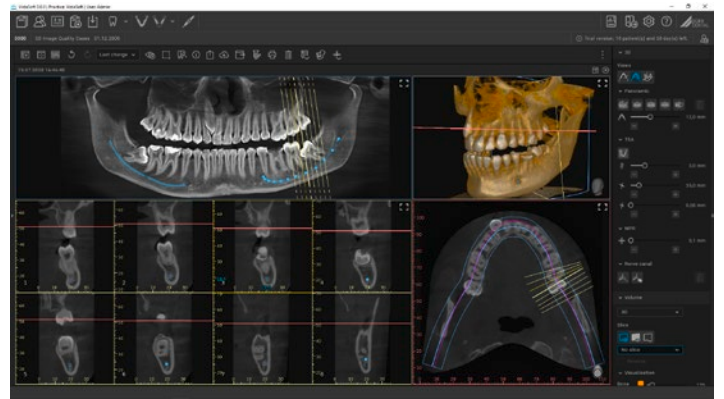
This is what counts:

- Ideal 3D imaging volume matched to the jaw arch ($\text{Ø } 130 \times 85 \text{ mm}$)
- $\text{Ø } 50 \times 50 \text{ mm}$ volumes in 80 or 120 μm resolution
- Excellent image quality in 2D and 3D thanks to the high-resolution CsI sensor with a pixel size of 49.5 μm
- Reduced radiation dose thanks to the anatomically adapted volume
- VistaSoft – modern, ergonomic image processing software
- Additional intelligent functions (AI) in combination with VistaSoft



Panoramic display – AI-assisted

On 3D images, VistaSoft uses intelligent algorithms to adapt the calculated panoramic view to the anatomy of the patient. This displays a significantly improved OPG image, which shows the anatomy of the patient much more clearly.

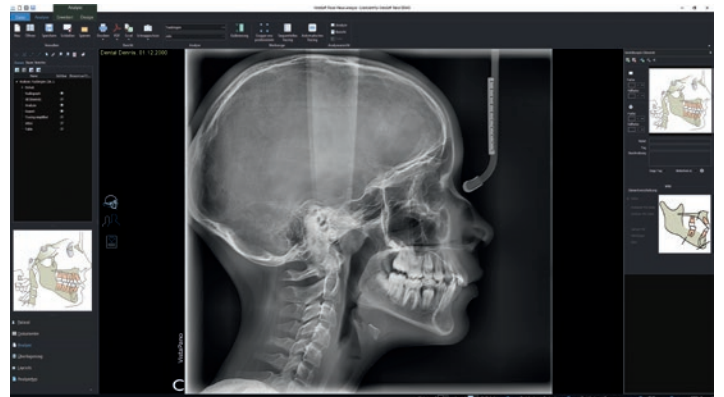


AI-assisted marking of the nerve canal

The AI-assisted mandibular canal detection system automatically calculates the position of the nerve canal in three-dimensional X-ray images. On this basis the diagnostician merely needs to check the proposed position.

Also with a Ceph module

VistaVox 5 Ceph enables cephalometric exposures to be taken with scanning times of just 1.9 seconds. This helps to avoid motion artefacts and reduce the radiation dose. Two modern high-sensitivity CsI sensors ensure that the image quality reaches exceptionally high standards. This avoids the work otherwise required for unplugging and reconnecting cables between the 3D X-ray device and the Ceph boom.



VistaSoft Trace: intelligent cephalometric analysis software

With the aid of innovative and extensive tools using artificial intelligence, cephalometric analyses can be completed within a few seconds using VistaSoft Trace. This user-friendly software add-on identifies reference points and soft tissue silhouettes automatically and plots them on the X-ray image. With VistaSoft Trace, images can be easily overlaid from various stages of the treatment so that progress can be monitored.

VistaPano S – an all-round perfect picture

Digital panoramic X-ray device with S-Pan technology

Thanks to modern Csl sensor technology and the error-forgiving S-Pan technology, VistaPano S delivers consistently excellent image sharpness. Furthermore, in Quick Scan mode the device enables complete OPG imaging in just seven seconds – and this with a particularly low dose of radiation.



Simple and efficient patient positioning.



Image acquisition in standard panoramic mode.

Ceph module included

The new VistaPano S Ceph provides an efficient X-raying solution for orthodontics and more. In addition to 2D panoramic images, it quickly creates Ceph images (in 4.1 seconds) with outstanding image quality and low exposure to radiation.



Cephalometric exposure head full lateral





This is what counts:

- S-Pan technology for easier diagnostics
- CsI sensor for improved image quality and reduced radiation exposure
- Slim design with a small footprint
- Extremely fast: OPG images from 7 seconds
- 7" touchscreen for intuitive operation
- Easy face-to-face positioning with 3 positioning light lines
- Also available as VistaPano S Ceph

VistaIntra – perfect in both function and design

Ergonomic X-ray source for intraoral exposures



This is what counts:

- Modern, sleek design for simple and precise positioning
- Hand grip for easy and ergonomic adjustment
- Superior quality thanks to a 0.4 mm focal spot and consistent radiation emission
- Suitable for all image receptors thanks to variably adjustable mA and kV values
- Simple operating concept
- DAP (dose area product display) after exposure
- Available in 3 working lengths

Fast, high-quality image results

VistaIntra leaves the factory pre-programmed with the exact radiation dose for every tooth region required for Dürr Dental image plates and sensors. It is ready for immediate use and delivers images with perfect exposure. VistaIntra is suitable for all image receptors.

Easy operation, highly ergonomic

Thanks to the hand grip on the head of the X-ray unit, VistaIntra can be comfortably and precisely positioned. Selecting the required tooth area is also incredibly easy. The X-ray parameters can be finely adjusted where required; quick switching between two different radiation settings, e.g. for image plate and sensor, is also possible. The clear icons on the timer improve the workflow further still and reduce the risk of errors.

State-of-the-art image plate technology – made in Germany



VistaScan IQ image plate

With the new VistaScan generation with RFID function and VistaSoft AI, the VistaScan IQ image plate offers you comprehensive AI-supported functions. This makes everyday use in your practice much easier, increases user comfort and ensures consistently high image quality.

Excellent image quality on 100% active area

In contrast to intraoral sensors, with a VistaScan IQ image plate 100% of the image surface is available for diagnosis.

Automatic recognition of laterally reversed exposures

The software recognises when the image plate has been exposed from the wrong side and recommends mirroring this in the software.

Automatic tooth detection

With the aid of artificial intelligence, all the teeth captured in the image are automatically detected and saved in the dental chart.

Clear patient assignment to each scanned image

Thanks to the SmartScan workflow, assigning the image to the correct patient is even easier and more reliable than before.*

Automatic recognition of the anatomical region

VistaSoft AI rotates intraoral images into the correct anatomical position.

Automatic checking of image plate quality

VistaSoft AI automatically checks the quality of the VistaScan IQ image plate and recommends a replacement, if necessary.

* Function available with VistaScan Mini View 2.0 and VistaScan Mini Easy 2.0

VistaScan Mini View 2.0 – Plug into the future

The new VistaScan Mini View 2.0 impresses not only with its futuristic design. The technology behind it is just as pioneering. The image plate scanner uses the state-of-the-art VistaScan IQ image plates to support the latest generation of AI functions.

In conjunction with the VistaScan Smart Reader, workflows are easily automated. Together with superior image quality, it makes your dental practice ready for a sustainable future.



Scanning without a PC is possible

Thanks to the standalone mode, you can also work independently of the network. Images are stored temporarily in the internal memory of the device and then transmitted to the database later on.



Large glass touch-screen display

The colour 5" touchscreen display provides a user interface that is very easy to use.



ScanManager – for efficient working

Scanning tasks can be sent simultaneously from different workstations to VistaScan Mini View 2.0. Select the required task on the display, carry out the scan and perform a diagnosis on the PC screen straight away.

Exceptional image quality thanks to PCS

Thanks to our PCS technology, VistaScan Mini View 2.0 can reliably highlight incipient caries lesions or make tiniest bony structures visible.

Ambient light

The LED lighting of the VistaScan Mini View 2.0 will add a nice touch of colour to your practice. You can freely choose a colour that best suits the look and feel of your interior design.





Smarter workflows with SmartScan

SmartScan Workflow uses automation to make your work more relaxed, more efficient and more reliable.



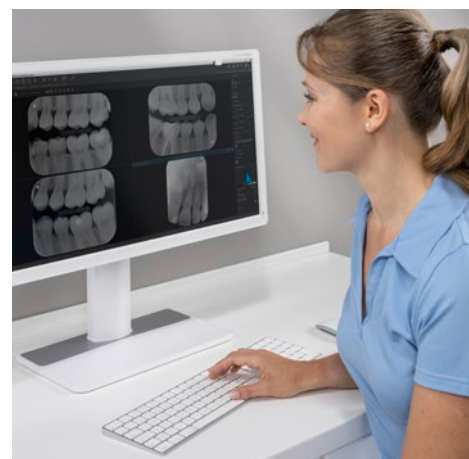
1. Assign the image plate

Use the VistaScan Smart Reader to assign an image plate to a patient in VistaSoft. This puts VistaScan Mini View 2.0 in "ready for image acquisition" mode.



2. Scan the image plate

Now scan image plates from different patients in any sequence, one after the other.



3. Assess the X-ray image

VistaSoft automatically assigns the X-ray images to the correct patients.

VistaCam iX HD Smart – the innovative interchangeable head camera

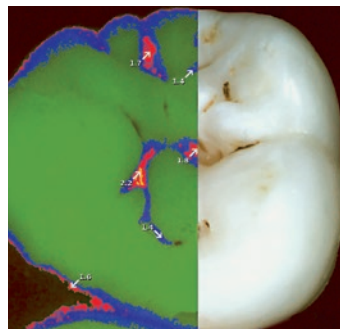
For perfect diagnosis support in real HD image quality

The outstanding HD resolution of VistaCam iX HD Smart sets new standards in patient communication, caries diagnosis and documentation. With an integrated sharpness filter and infinitely variable autofocus, the camera delivers images of the highest brilliance and sharpness. The slim head also enables easy access to the rear molars.

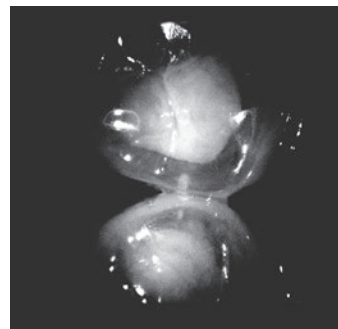
In combination with the intelligent interchangeable head mechanism, the camera system will provide you with reliable support – both in the diagnosis and early detection of caries, as well as in plaque visualisation. At the same time, it makes your treatment recommendations easier for patients to understand.



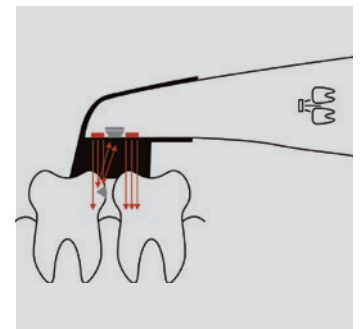
Cam image Macro



Proof image



Proxi image



Caries lesions reflect the infrared light.

Photos and live videos in HD

Pinpoint-accurate HD images – regardless of whether you need intraoral, extraoral or macro images.

Visualisation of carious areas

In the image created with the Proof interchangeable head (left), further evidence for the the caries diagnosis can be reliably identified. In this example, the early-stage caries (blue) and deep enamel caries (red) are easy to spot.

Gentle and early detection of proximal caries

Reliability for your patients – the Proxi interchangeable head provides reliable support in the early detection of proximal caries. The advantage: diagnostic support without exposure to radiation, particularly for children and pregnant women. The images can be saved directly in the patient database, where they can be used to monitor treatment success (e.g. remineralisation or spread of caries).



This is what counts:

- Brilliant HD image quality for images and live videos
- Autofocus for intraoral, extraoral and macro images
- Software evaluation to detect caries lesions and display plaque (Proof interchangeable head)
- Diagnostic aid for detection of proximal caries (Proxi interchangeable head)

Intelligent interchangeable head system

Cam interchangeable head



Proof interchangeable head



Proxi interchangeable head



The technology at a glance

	VistaVox S	VistaVox S Ceph	
X-ray HV generator			
Voltage (kV), current (mA)	50 - 99, 4 - 16	60 - 99, 4 - 16	
Rated power (kW)	1.6	1.6	
Tube			
Focal spot (mm)	0.5 (IEC60336)	0.5 (IEC60336)	
Total filtration (mm)	2.8 AL	2.8 AL	
Image detector			
Type	CsI CMOS photodiode array	CsI CMOS photodiode array	CsI CMOS photodiode array
Pixel size (µm)	49.5	49.5	100
Active sensor surface area (mm)	135.8 x 36.4	135.8 x 36.4	157.2 x 16.3
Scan times			
Scanning times (seconds)	From 2 to 18	From 2 to 18	
Ceph programmes		Lateral head images in quick scan mode: 1.9 seconds (line scan)	
Pano and Ceph programs			
Panorama programs	17	17	
Image acquisition programs for children*	4	4	
Ceph image acquisition programs		6	
Magnification factor			
2D images	1.26	1.26	1.15
3D volume			
	Ø 130 x 85 mm diagnostic Ø 130 x 70 mm diagnostic Ø 50 x 50 mm	Ø 130 x 85 mm diagnostic Ø 130 x 70 mm diagnostic Ø 50 x 50 mm	
Unit dimensions			
Height (mm)	1,406 - 2,206	1,406 - 2,206	
Weight (kg)	180	202	
Height adjustment range (mm)	800	800	
Width x depth (mm)	1,212 x 1,545	1,941 x 1,615	
installation	Wall mounting	Installation on a wall or standing on feet (optional foot with wall installation)	
Electrical connection			
Mains voltage (V AC)	200 - 240	200 - 240	
Frequency (Hz)	50/60	50/60	
Rated power	170 W, 2.2 kVA max.	170 W, 2.2 kVA max.	

*Image acquisition programs for children: for children and adolescents from the age of 7.

	VistaPano S	VistaPano S Ceph	
X-ray HV generator			
Voltage (kV), current (mA)	50 - 99, 4 - 16	50 - 99, 4 - 16	
Tube			
Focal spot (mm)	0.5 (IEC60336)	0.5 (IEC60336)	
Total filtration (mm)	2.8 AL	2.8 AL	
Image detector			
Type	CsI sensor	CsI sensor	CsI sensor
Pixel size (µm)	100	100	100
Active sensor surface area (mm)	6 x 150.4	6 x 150.4	5.9 x 230.4
Frame rate (fps)	300	300	200
Scan times			
Scanning times (seconds)	2.5 to 13.5	4.1 to 12.9	
Panorama programs (seconds)	Panoramic X-ray images of adults in Quick Scan mode: 7 sec.	Ceph programmes: Lateral head radiograph in Quick Scan mode: 4.1	
Magnification factor			
Magnification factor	1.3	1.3	1.14
Unit dimensions			
Maximum height (mm)	2280	2280	
Weight (without/with foot, kg)	105/155	129/179	
Height adjustment range (mm)	700	700	
Width x depth x height (mm)	990 x 1220 x 2280	1940 x 1220 x 2280	
installation	Wall or foot mounting	Wall or foot mounting	
Electrical connection			
Mains voltage (V)	200 - 240 AC	200 - 240 AC	
Frequency (Hz)	50/60	50/60	
Rated power (kVA)	2.2	2.2	

The technology at a glance

VistaIntra DC	
Input power	AC 100 - 240 V 10%, 50/60 Hz
Power consumption (W)	500
Tube voltage (kVp)	60 - 70
Tube current (mA)	4 - 7
Tube length (mm)	200 (300 optional)
Radiation field limiting (mm)	Ø 60/30x40 (20x30 optional)
Exposure time (seconds)	0.04 - 2
Focal spot (mm)	0.4 (IEC 336)
Total filtration (mm)	Min. 2.0 Al
Weight (kg)	24.4 / 26.4 / 28.4
Height (mm)	1730
Max. working length (mm)	1810 / 1960 / 2260

VistaScan Mini View	
Display	4.3" touchscreen, 800 x 480 pixels, 16.7 million colours
Plate sizes	S0, S1, S2, S3, S4
Effective resolution (LP/mm, dpi)	22 (1,100)
Theoretical resolution (LP/mm, dpi)	40 (2,000)
Weight (kg)	Approx. 7
Dimensions (H x W x D mm)	275 x 226 x 243
Stand-by functions	Yes
Interfaces	LAN, WLAN

VistaScan Combi View	
Display	4.3" touchscreen, 800 x 480 pixels, 16.7 million colours
Plate sizes	S0, S1, S2, S3, S4
Intraoral formats (cm)	2 x 3 / 2 x 4 / 3 x 4 / 2.7 x 5.4 / 5.7 x 7.5
Panorama formats (cm)	12.7 x 30.5 / 15 x 30
Ceph formats (cm)	18 x 24 / 20 x 24 with VistaScan Omni View: 24 x 30
Effective resolution (LP/mm, dpi)	22 (1,100)
Theoretical resolution (LP/mm, dpi)	40 (2,000)
Greyscale (bit)	16 (65,536)
Weight (kg) / installation	24 / table-mounted; wall-mounting optional
Dimensions (H x W x D mm)	720 x 380 x 380
Interfaces	LAN, WLAN

VistaCam iX HD Smart

Connections	USB 2.0 (USB 3.0 compatible)
Multi-user application	Plug & play
Activation	Via button located on handpiece (top and bottom, vibrates when pressed)
Handpiece weight (g)	70
Handpiece length (mm)	200
Cable length (m)	2.5 m (can be extended up to 19 m via active holder with USB hub and repeater cable)
Power supply	USB (5V)
Sensor	High performance CMOS Sensor
Driver	Uses standard Windows drivers, NO additional drivers needed
Resolution (pixels)	1280 (H) x 1024 (V)
Illumination	2 LEDs each for: Cam (white), Proof (405 nm, violet), Proxi (850 nm, infrared)
Optical system	Lenses with protective glass, infinitely variable autofocus

System requirements for VistaSoft (from version 2.0)

CPU	≥ Intel Core i3
RAM (GB)	≥ 4
Operating systems	Microsoft Windows 7 (Home Premium or above), SP1 and additionally update KB3033929, recommended: KB2921916 Microsoft Windows 8.1 (not Windows RT) Microsoft Windows 10 (Pro or higher) Microsoft Windows Server 2012 Microsoft Windows Server 2016
Hard disk	Workstation (without database) ≥ 50 GB The database memory requirements depend on the number of images taken at the surgery in question. (Camera image: approx. 1 MB / X-ray image: approx. 2 MB - 10 MB / CBCT: 200 - 300 MB)
Drive	DVD ROM
Data backup	Daily data back-up
Interface	Ethernet ≥ 100 Mbit
Graphics card	Minimum resolution ≥ 1280 x 1024, Colour depth 32-bit, 16.7 million colours Recommended for 3D X-ray images: NVIDIA GeForce 750 2 GB
Diagnostic monitor	In accordance with DIN 6868-157, room category 5 or 6 (depending on the requirements)
Notes	Data migration from an existing DBSWIN installation is possible in VistaSoft from DBSWIN 5.11. VistaSoft Implant & Guide in conjunction with exocad GmbH.

Want to know more?

» www.duerrdental.com



VistaScan



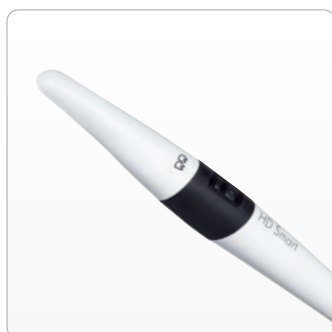
VistaIntra



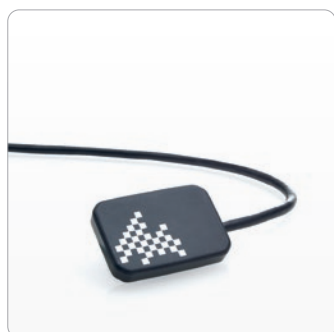
VistaPano



VistaVox



VistaCam



VistaRay



VistaSoft



Accessories

P007-763-02/R02_Subject to technical alterations



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