

KaVo DIAGNOcam.
Light years ahead of caries.



KAVO
Dental Excellence

Early caries detection with KaVo DIAGNOcam.

Intraoral sensors and 2D or 3D X-ray equipment often only show caries once they reach the dentine. KaVo DIAGNOcam is the perfect addition to traditional caries detection: It lets you detect approximal and occlusal caries much earlier and a lot more easily. Clear from distortions through plaque deposits or overlapping, view tooth structure and caries with impressive clarity – with no waiting or X-rays, and directly at the treatment station.

Caries diagnosis with light beams – light years ahead.

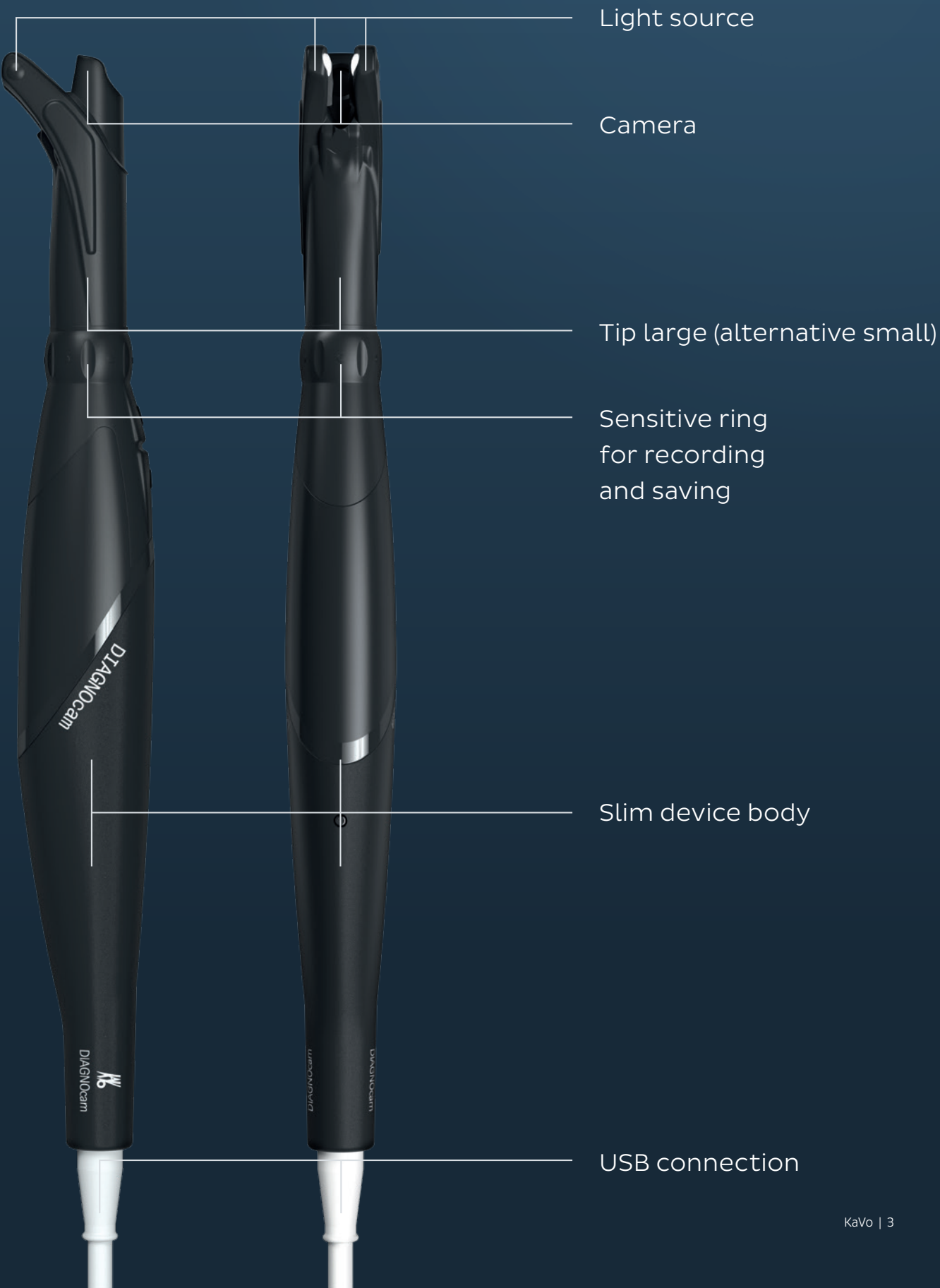
With KaVo DIAGNOcam, light waves replace X-rays otherwise needed for caries detection, giving you exceptional image quality and detail.

- The light source at the head of the device illuminates the tooth outwards from the root to the tooth surface.
- A digital video camera shows the scene live on the screen of your choice.
- The tooth becomes a light conductor, making the tooth structures visible: Any areas with caries or cracks that the light comes across on its way to the tooth surface are clearly demarcated and visibly darker.

Benefits include:

- Early diagnosis of occlusal, approximal, smooth surface, and secondary caries and cracks.
- Highly precise image quality, even without dental precleaning.
- Conclusive images and videos are visible immediately for an increased acceptance of treatment plans.
- Free from X-rays: For all patients, all teeth and all procedures.
- Automatic integration with common software solutions.
- Recording assistant shows the right position for the best diagnosis images in the shortest possible time.
- Intuitive to operate and a clear dental chart, including deciduous teeth.

The first KaVo instrument with second sight.



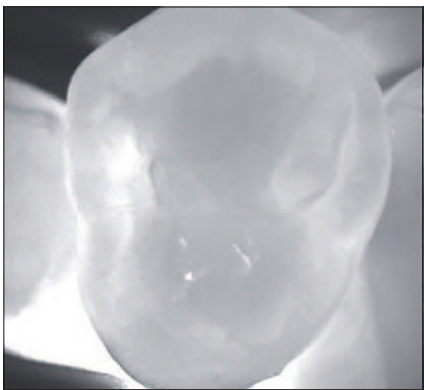
Spot caries a lot earlier – otherwise, it is likely they'll only be detected when it's too late.

KaVo DIAGNOcam shows the coronal tooth structures above the gingiva in detail. This lets you detect caries much earlier than other methods, and carry out minimally invasive or even prophylactic treatment. So not only are your patients happy, but you are too – thanks to trouble-free follow-up appointments and routine check-ups.

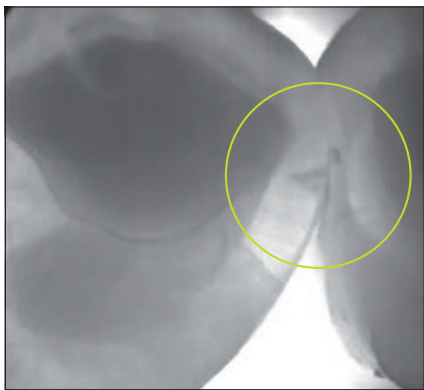
Pick it up, record, detect:
Quick diagnosis without lengthy training.

Detecting caries early is good. Detecting caries safely is better. KaVo DIAGNOcam combines both aspects. Thanks to the intuitive handling, it is possible to diagnose caries with extreme safety with almost no training at all! Clinically established and proven in practice through millions of recordings.

Safely detect caries before they reach the dentine.



Healthy tooth surface.



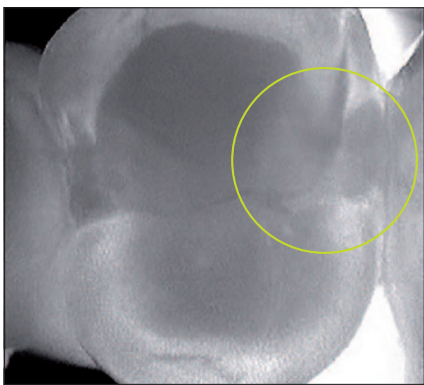
First signs of approximal enamel caries.



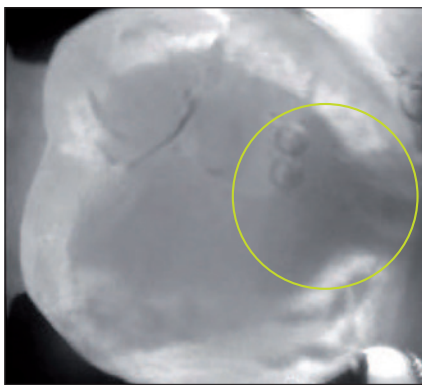
Established approximal enamel caries.



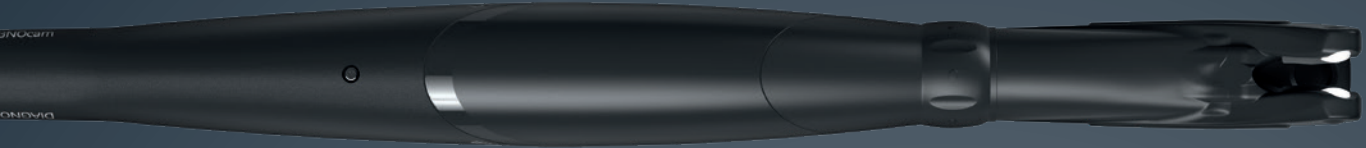
Approximal enamel caries with contact with enamel-dentine border.



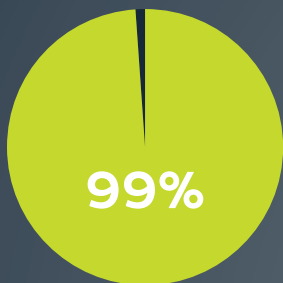
Approximal dentine caries with surface enamel-dentine border contact.



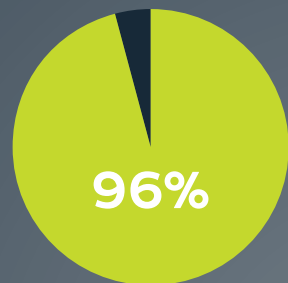
Advanced approximal dentine caries.



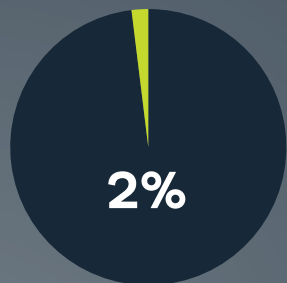
KaVo DIAGNOcam



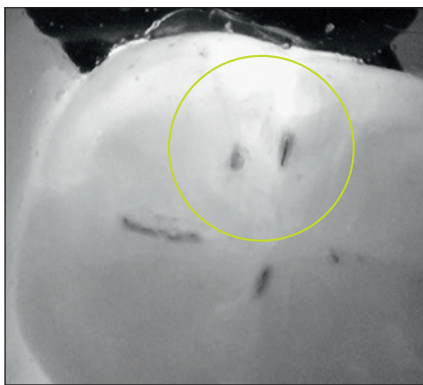
Bitewing radiographs



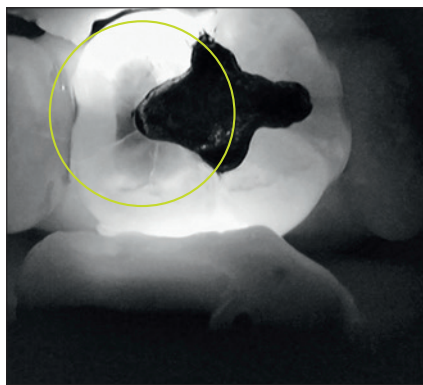
Visual inspection



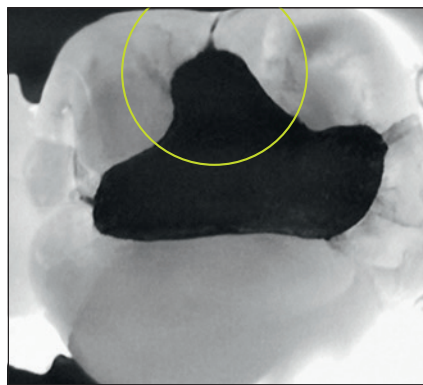
Precise diagnosis from DIAGNOcam based on: Kühnisch J, Söchtig F, Pitchika V, Laubender R, Neuhaus KW, Lussi A, Hickel R "In vivo validation of near-infrared light transillumination for interproximal dentin caries detection," Clinical Oral Investigations, May 2016.



Occlusal caries.



Secondary caries.



Cracks.

Makes patient communication easier
and improves case acceptance.

One of the priceless benefits of KaVo DIAGNOcam is the clarity of the images. These can immediately be shown to patients on the screen to explain why treatment is required. You can also save these images to print out for patients and use during check-ups for long-term monitoring.



Intuitive use without training.

The fact that KaVo DIAGNOcam is captivatingly simple to use will win over both you and your entire practice team in no time. And speaking of time: KaVo DIAGNOcam saves dentists and assistants time since it can be used directly at the treatment unit. Is there a lot of training involved? No. Is it complicated to use? No. Simply place the tip over a tooth and start the image or video recording. It's that easy.

Conclusive images without the wait.

KaVo DIAGNOcam images are available immediately without any waiting or any need to change rooms. Select the monitor which you want to display any details of the recordings for your patients. This way, you provide your patients with the best possible clarification, and the necessity of upcoming procedures can immediately be understood. Thanks to early diagnosis, there's a significantly higher chance of retaining healthy teeth.

For any appointment, any patient, any teeth:
Perfect for monitoring.

KaVo DIAGNOcam can be used without dental cleaning. However, for regular, easy monitoring, we recommend use after each prophylaxis and check-up appointment. The ability to create simple, quick and clinically relevant recordings without X-rays convinces even critical patients, pregnant patients and the elderly.

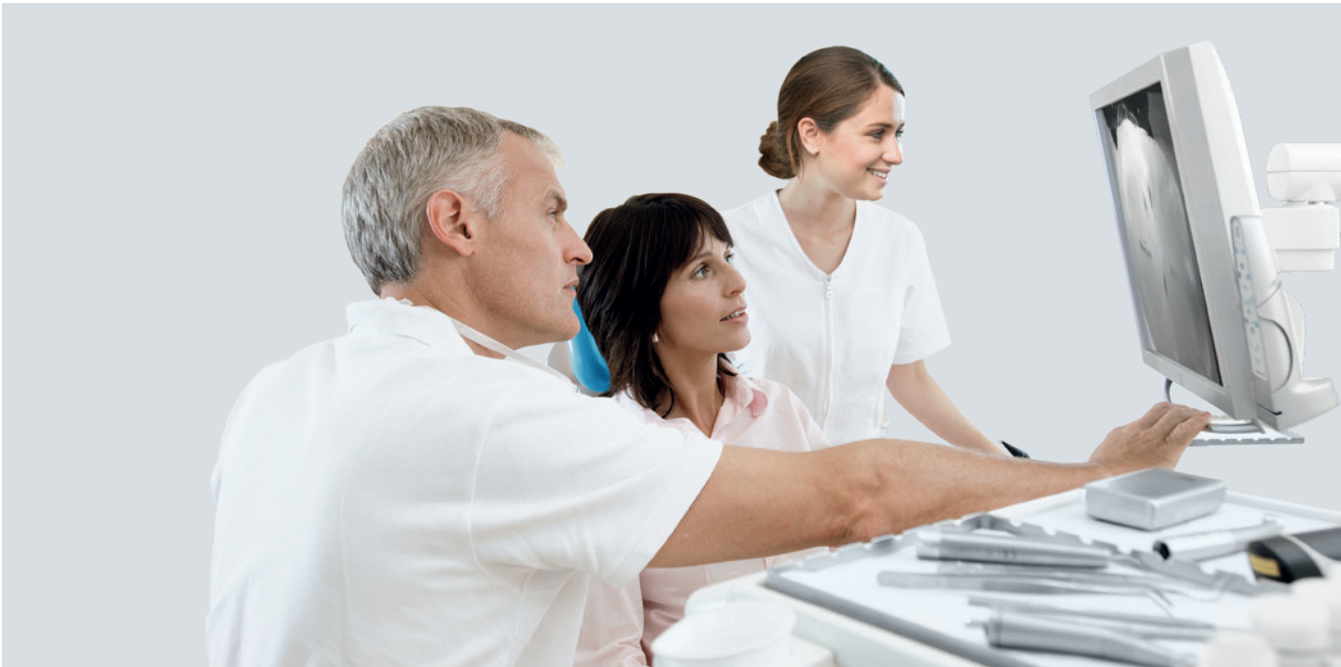


**Your entire practice team benefits
from KaVo DIAGNOcam – as well as the patient:**

- Your dental assistants build up their expertise by carrying out a caries check at the end of each prophylaxis treatment. Documentation of the current situation and preparation for caries diagnosis by the dentist are carried out in a single step to save time.
- The whole practice becomes more efficient when monitoring and early caries detection are combined.

Vibrant images for illuminating treatment plans to gain immediate acceptance.

The clearer the patient sees the dental situation, the clearer they see the need to undergo potential treatment. With the convincing strength of the recordings from KaVo DIAGNOcam, you can increase the acceptance of your treatment plans.



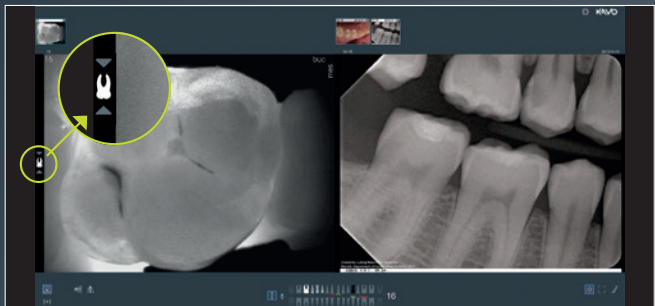
Just one look is enough for a second appointment.

- You can immediately demonstrate the need for treatment to your patient on the screen using the recordings.
- You can show visually the treatment procedure for your patient using these recordings and previous images.
- You can point out the caries occurrence or other findings and enlarge a certain area to make the lesion even more easy to recognise.

Super-easy and self-explanatory: The intuitive user interface.

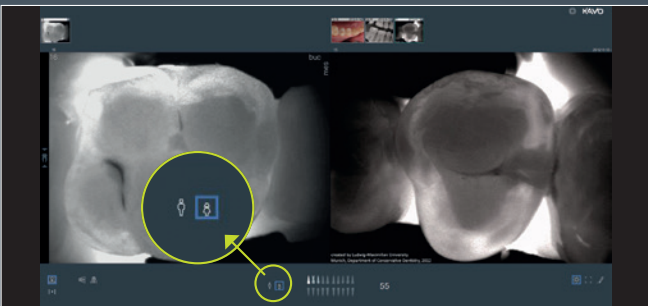
The use of KaVo DIAGNOcam is designed so that all procedures are intuitive and carried out in a matter of seconds. Integrated functions such as the recording assistant, a clear structure and easy-to-understand symbols make diagnostics almost as easy as recording itself.

Integrated recording assistant.



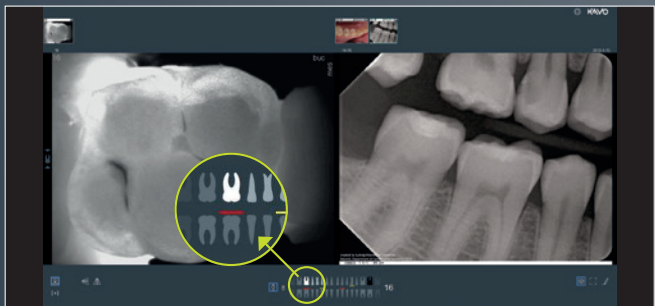
- Arrow keys above and below the tooth symbol show how to best achieve the perfect distance to the tooth.
- The tooth symbol lights up when the optimal recording position is reached.
- Take steady photos or videos via the ring on your KaVo DIAGNOcam.

Tooth and deciduous tooth chart.



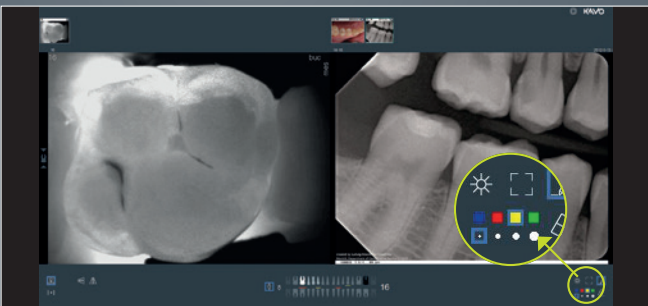
- Select with one click under the recording field.
- Automatic display of tooth chart with respective tooth numbers.
- Automatic ordering of recorded teeth for immediate marking of findings.

Easy categorisation.



- Four categories for quick tooth diagnosis.
- Overview of overall situation through signal colours for lesions, monitoring and healthy tooth status, for example, on the tooth/deciduous tooth chart.

Highly precise visualisation.



- Optimised diagnostics thanks to simple contrast (left/right) and brightness (above/below) adjustment.
- Ability to directly mark discovered lesions on tooth images using the pen symbol – for patient conversations that are visibly more convincing.

Well connected
across your practice.

KaVo DIAGNOcam seamlessly fits into the daily running of your practice: The device is recognised automatically, e.g., by KaVo CliniView™, CONEXIO™ or Gendex VixWin™, and recordings are transferred directly to the X-ray software. Integration is also available via TWAIN™ as an alternative. In addition, you can also link KaVo DIAGNOcam directly to your patient management system using the VDDS interface and use it in different practice rooms thanks to multi-user functionality.



Full integration with the following
software solutions:

CliniView
VixWin
TWAIN
CONEXIO

Linking to practice management
system via:

VDDS Transfer

Technical
information.

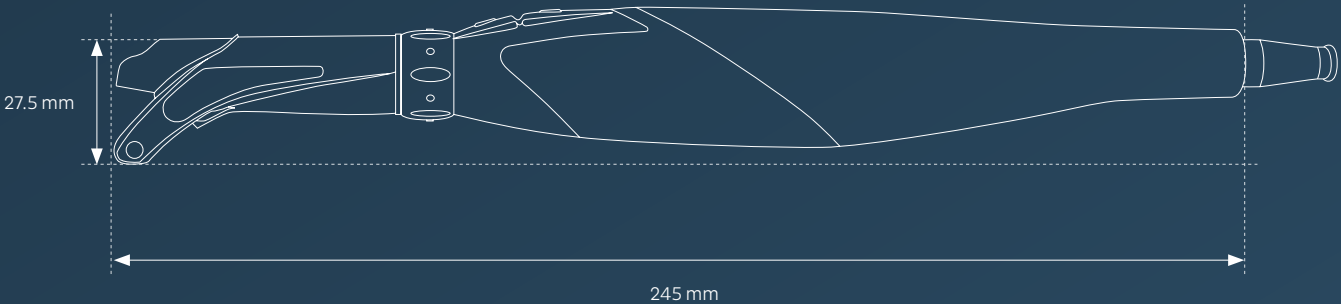
Power consumption	Max. 0.5 A
Supply voltage	5 V
Tube length	2.5 m
Weight	190 g
Light	Laser diode
Wave length	780 nm
Best performance	15 mW according to DIN EN 60825-1
After occlusal tips	Max. 1 mW according to DIN EN 60825-1

System requirements

PC	Min. 1 GHz processing power, min. 32-bit operating system, USB 2.0 connection
Main memory	256 MB (RAM) for single user or workstation, 512 MB (RAM) for SQL database server
Disk space	5 to 50 GB depending on data volume on the data drive (can be the same as system drive)
Operating system	Windows 7 Professional 32 Bit SP1 Windows 7 Professional 64 Bit SP1 Windows 10 Professional 64 Bit
Display	Min. 1024 x 768, color depth min. 24-bit
Software linking	Linking possible via integrated VDDS interface to CliniView (from version 11.3), VixWin (from version 3.5), CONEXIO and TWAIN (separate interface required); Linking possible via DTX Studio™ if the DTX Studio™ software platform is available in your region.

Order options	Item No.
DIAGNOcam with VDDS interface with multi-user functionality	1.001.9000
TWAIN interface	1.010.3642
Accessories (included in scope of delivery)	
Tip large	1.005.1300
Tip small	1.005.1360
DIAGNOcam holder	1.005.1380
USB extension cable	1.005.1076

Dimensions.



Dental Excellence in every area.



Practice equipment

KaVo treatment units and lights, dental chairs, patient communication systems, dental microscope and additional operatory accessories.



Instruments

Dental straight and contra-angle handpieces, turbines, air polishing systems and small equipment for all application areas including diagnosis, prophylaxis, restorative, surgery, endodontics and instrument care.



Imaging

Intraoral X-ray equipment, sensors and imaging plate systems, panoramic and cephalometric in combination with CBCT, as well as dedicated CBCT devices for every indication in dentistry.



CAD/CAM

Dental CAD/CAM solutions for premium aesthetic, natural-looking and long-lasting restorative work, suitable for dentists and dental technicians.

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