

KAVO

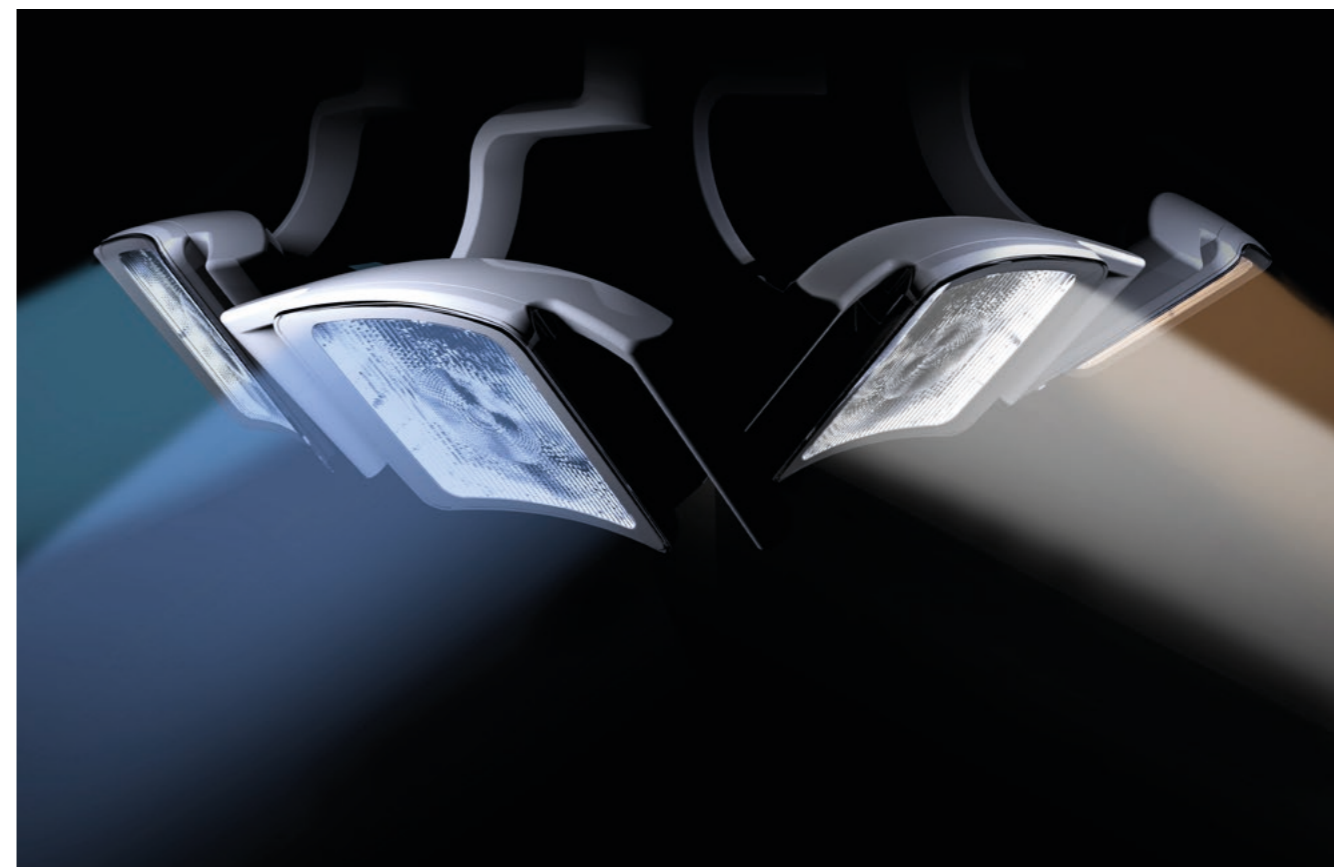
Lumina

See the difference.



KaVo Lumina with UX Light Technology. Enjoy the light side of dentistry.

The KaVo Lumina is setting new lighting standards in dental practices. A truly stunning piece of equipment, it takes lighting technology to a whole new level, boasts a variety of smart features and sets the gold standard in terms of user experience. The innovative UX Light technology enables perfect illumination of all levels right up to the molar area – without annoying reflections on the anterior teeth. Combined with the optimised light field, this is easy on the eyes and facilitates concentrated work. With its precise colour rendering, the natural light spectrum offers 'Made by KaVo' quality, enhancing the day-to-day work of technology enthusiasts and design aficionados alike.



Smooth movement redefined

The combination of balanced structure and comfortable handles, inspired by Japanese chefs' knives, perfects the smooth movement and positioning of the KaVo Lumina.



COMPOshape mode

The colour spectrum of the new COMPOshape mode with its reduced proportion of blue supports aesthetic layering. So thanks to improved colour and structure reproduction, contrasts are visible without premature hardening of the composite.



UX Light Technology

The Lumina's new UX Light Technology is created by combining an innovative single-optical system with a unique collimator. It generates constant, pulse-free light of the highest quality. The natural colour spectrum created by the UX Light Technology eliminates the need to adjust the colour temperature and enables optimised illumination of the molars without annoying reflections on the anterior teeth. It also forms a new, ergonomic light field.



Discover the different Lumina colour modes

SPAlight mode

The SPAlight provides a play of colours consisting of shades of blue and green that have a proven calming effect, according to cutting-edge colour psychology. This means it can be used to create a relaxing atmosphere and a spa-like vibe before and between treatments.*

*only available with KaVo touchscreen units.

The highlights of the KaVo Lumina at a glance:

UX Light Technology:

- Elevating light quality to a remarkable new level
- Perfect illumination of the molars without reflection on the anterior teeth
- Constant, pulse-free light with a daylight-quality colour temperature, eliminating the need for a laser mode

SPALight mode:

- Soothing play of colours based on modern colour psychology
- Creates a lighting mood of calm, harmony and serenity
- Promotes relaxation before and during treatment

COMPOshape mode:

- Optimised colour and texture rendering
- Greater visibility during the placement and aesthetic processing of composites

Effortless positioning:

- Flexible spacing between the light and the patient's mouth
- Optimally shaped and positioned handle – inspired by Japanese chefs' knives
- Pivot point close to the centre of gravity of the lamp head
- New, advanced braking system requires minimal effort

Additional highlights:

- Large light field protects the eyes
- DIMM mode
- Improved sensor control
- Increased hygiene thanks to smooth surfaces and enclosed architecture
- Optional accessories:
 - Mirror for easier patient communication
 - 3D hinge for positioning the light field in special treatment situations
 - Sterilisable grip sleeves



KaVo's master of light

Innovative new technologies in light and lighting technology open up a huge range of possibilities for the development of dental treatment lights. KaVo's master of light is André Hackel. He knows everything there is to know about the latest lighting trends and technologies, not to mention the possibilities for dental treatment lights and their practical uses. We asked KaVo's lead developer about the future of light and his latest innovation, the KaVo Lumina treatment light.



Light is essential for working in a dental practice. But let's be honest: is there really anything worth improving in this area?

André Hackel (AH): Oh yes, there certainly is: technical innovations and developments can always be utilised to optimise things and exploit new opportunities. We apply tried and tested methods to make good things even better whenever we can – technologically, visually and ergonomically. That's the KaVo way.

You can read the entire interview with André Hackel and many other great insights about the new KaVo Lumina here: www.kavo.com/en/lumina-interview

You like conducting live observations in dental practices. Why is this so important?

AH: Through targeted observation, I can spot key details that even users may not notice themselves, perhaps because they have already unconsciously adapted to the conditions. These details provide possible starting points for improvement. We follow through on these until we can present a product that meets our standards of excellence. In terms of ergonomics and light quality, and especially in terms of the lighting field and other details, the Lumina is probably the best and most innovative product that the market currently has to offer.

What are your top highlights of the new KaVo Lumina?

AH: The biggest highlight is the user experience. The Lumina team has put this at the forefront from the start – our focus was on the best possible user experience. With that in mind, we optimised the new KaVo lamp until the UX Light technology led us to today's product, with its impressive light quality, innovative functions and unique user experience.

What practical challenges does the new KaVo Lumina solve?

AH: To give one example, the distance between the

light and the work area is often less than optimal. This results in either poor illumination of the work area or means that the dentist needs to reposition the light. In other cases, limited contrast sharpness in composite mode creates unnecessary difficulties when trying to work precisely with composite. Reflections on the anterior teeth often "blind" the dentist. Glare stresses their eyes, repositioning the light strains their muscles and concentration – both of which lead to faster fatigue. Working with the Lumina is much more relaxed all round.

This brings us to the topic of ergonomics: how does the Lumina excel in this respect?

AH: Ergonomics was one of our most important areas of focus when we were developing the Lumina. We wanted users to be able to position the light as quickly, easily and precisely as possible, with the least possible effort, so that treatment can be carried out efficiently and ergonomically in every situation. With their all-round illumination, the single optics offer more freedom in positioning. A precisely defined distance to the patient's mouth is no longer required for an excellent, uniform light field. Then there's the issue of eye health. Glare and sharp light edges with intense light-dark contrasts tire the eyes. We've been able to counteract this with the new, gently tapering light field and the UX Light technology of the Lumina.

What does the UX Light Technology involve?

AH: The key thing is combining the innovative single-optical system with the unique collimator. This means that the light is optimally adapted to the intraoral conditions. The oral cavity has different depths from the front teeth to the molars and therefore different levels at which work must be carried out. We wanted the treatment light from the Lumina to reach all depths at the same quality, unlike the light from other lamps. Of course, the light itself is also an extremely important feature: the light spectrum of the lamp must be as close as possible to the quality of the natural light spectrum, as this is crucial in the level of detail that dentists can see.

” The overall Lumina package is simply unique – both technologically and aesthetically.

“

Can you tell us about the exciting new modes?

AH: The new COMPOshape mode now offers a warm white light comparable to the light colour spectrum shortly before sunset. This means that despite the reduced blue component, which slows down the hardening of the composite, we have very good contrast visibility. For the user, this means the ideal balance of sufficient time to work on the composite and the best possible light and contrast conditions. Details and structures of the teeth can be seen clearly and the composite colour can be better matched to the adjacent teeth directly during application and adjusted if necessary.

How about the SPALight? The name alone makes you curious. So what's it all about?

AH: When developing SPALight, we looked at colour psychology and the possibilities it offers in everyday life. The changing colour spectrum creates a lighting mood of calm, harmony and serenity. It helps the patient relax and is visually appealing in its own right. It can be activated in the light's standby mode – before treatment begins – and is a great feature for all patients, not only those who are anxious. In general, SPALight creates a pleasant atmosphere around the treatment chair.

Thank you for talking to us and providing such fascinating insights, Mr Hackel!

KaVo Lumina

The new hero product for dental practices

Light field

The KaVo Lumina's large geometric light field is characterised by a precise upper edge and softly tapered light distribution to the sides and downwards. This lamp eliminates sharp light edges and heavy light-dark contrasts, as this has been proven to tire the eyes and can limit the ability to concentrate. The optimised light field of the KaVo Lumina protects the user's eyes, while also preventing patients from being dazzled.



Gesture control

Intuitive, reliable, hygienic and rapid – this is what users expect when it comes to gesture control. Of course, the KaVo Lumina's sensor control fulfils all of these requirements. But it goes even further, with standard operation via the automatic positioning of the treatment chair and control via the display of the treatment unit.

Design

Product design is more important today than ever. As a distinctive component of the treatment unit, the treatment light has to fit into the overall look. Constantly in use and in the patient's field of vision, it is always in view. The design of the KaVo Lumina boasts a modern, minimalist style and exudes timeless elegance and effortlessness.

Laser mode

The Lumina's UX Light Technology offers constant, pulse-free light, eliminating the need for a laser mode. The normal light enables high-resolution image recording at any time and with a daylight-quality colour temperature, even with a smartphone. The technology allows for seamless working with laser fluorescence devices like the popular DIAGNOdent Pen and lasers with a feedback system.



Simply hygienic.

Smooth, easy-to-clean surfaces on the closed housing and a cover panel with a protective coating deliver easy, flawless hygiene. The new coating on the cover panel of the KaVo Lumina also reduces visible streaks after wiping, while the closed housing offers protection against moisture and dust.

Accessories



Ergonomic upgrade

Unnatural posture – especially when preparing the distal molar area of the upper jaw – is now a thing of the past. With the optional 3D hinge, the light field of the KaVo Lumina can be synchronized with the

rotation of the patient's head, for up to 16 different preparation positions. Ergonomics for better back health – made by KaVo.

Patient communication

Rapid, easy analogue patient communication is also possible with the KaVo Lumina. The optional fold-away mirror on the Lumina allows dentists to show patients their clinical situation at any time.



Sterile working

Whether in implantology or surgery, sterile working is an essential requirement in dental practices. To be as hygienic as possible when positioning the light, we offer completely reusable grip sleeves for the KaVo Lumina.

Functionality	Description	Why it's important
Optical system	Single optics with UX Light Technology	<ul style="list-style-type: none"> • Constant, pulse-free light of the highest quality • Innovative light modes • Free positioning
Light intensity	Normal light: approx. 25,000–44,000 LUX Dimmed light: approx. 5,000–15,000 LUX COMPOshape: approx. 5,000–11,000 LUX	Light for optimal work results
Colour rendering value Rf	>95	Reliable colour reproduction for diagnosis of soft and hard tissue
Colour temperature	Normal light: 5,200 K	Daylight quality ensures accurate tissue analysis
Light field	Large, uniform light field, softly tapering towards the patient's eyes with a precise edge	<ul style="list-style-type: none"> • Eye-friendly illumination of the oral cavity for both patient and user • Reduces eye fatigue
COMPOshape mode	Higher-contrast, more neutral light prevents premature curing of composites	Greater visibility during the layering and aesthetic processing of composites
SPALight	Relaxing play of colours before and during treatment	Creates a relaxing spa vibe
Axes of rotation	3 axes: horizontal, vertical and diagonal (optional)	Enables optimal ergonomic positioning
Operation	Gesture control, operation via display, automatic switching on and off when the chair reaches automatic positions	Hygiene controls according to personal preference
Compatibility	ESTETICA E70/ E80 Vision KaVo uniQa KaVo amiQa ESTETICA E30	Can also be retrofitted for: ESTETICA E50 Life Primus 1058 Life

Dental Excellence in every area

What our brand represents

KaVo is a long-established, dependable manufacturer, and always will be. We and our products have stood for the highest quality and reliability for over 100 years, so our customers can concentrate on what's important.

KaVo is adept and uncompromising when it comes to combining essential requirements, ergonomics, the highest standards of hygiene and design to create the best overall package. Thanks to our perfect interplay of dynamism and expertise, we're always at the cutting edge.



KaVo treatment units –
an investment in your health



KaVo instruments –
feel the difference



KaVo Imaging –
see more, plan better



Dental training –
effective learning

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