dr. hönle
medizintechnik

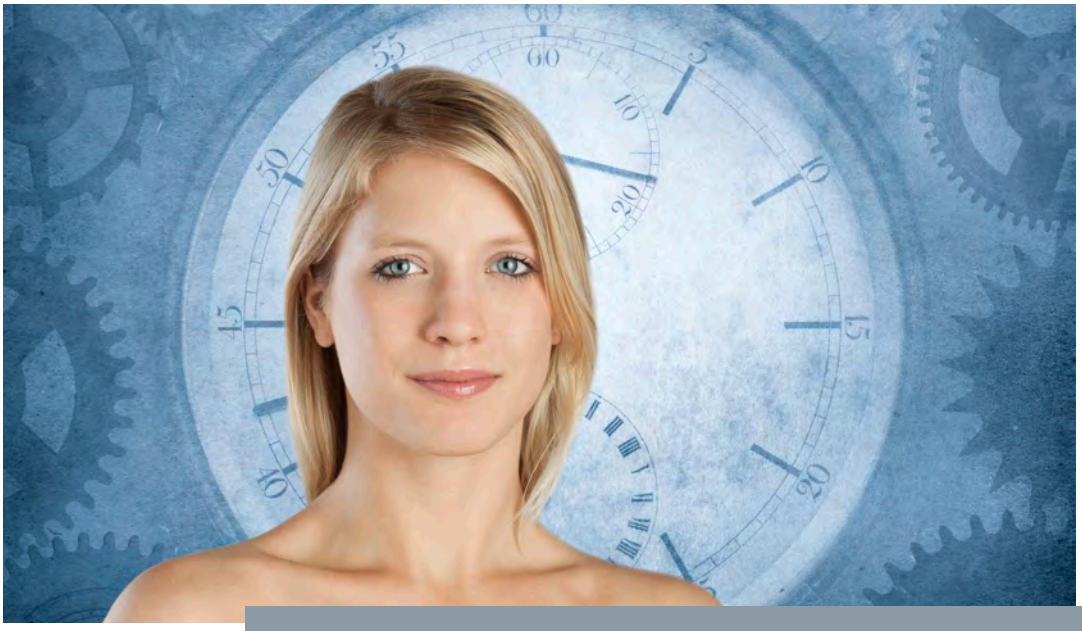
Your specialist for:

UV therapy,
Tap water iontophoresis &
Daylight PDT

PERSONAL Product & Service Innovation & Quality GUARANTEE MADE IN GERMANY

The strong partner at your side for 45 years - we look forward to meeting you!

TÜV SÜD CE 0123



Sustainability & social responsibility

For 45 years, our primary claim has been to provide our customers and users with the best possible tools for successful therapy with innovative products. This applies in particular to the indications psoriasis, actinic keratosis, vitiligo, neurodermatitis, acne and hyperhidrosis.

Highly effective scientific devices, easy to handle, are the result of decades of research and development work by Prof. Dr. Karl Hönle and his development team. We largely owe our company's success and the uniqueness of our products to highly motivated and qualified employees and sustainable partnership with numerous doctors and patients.

This wealth of experience and expertise has to be safeguarded and continued for future generations. We focus on the promotion and further training of our employees in order to ensure moderate growth and continuity in the company as well as constant product development.

Personal, open, solution-oriented communication within the company and with our customers is our top priority.
Get to know our diverse, innovative products and our outstanding service. Our dedicated team will be happy to assist you with help and advice.

Prof. Dr. Karl Hönle
Founder & Managing Director

Petra Kleinhans
Managing Director

Jessica Gessner
Managing Director

Innovation & Quality - Made in Germany

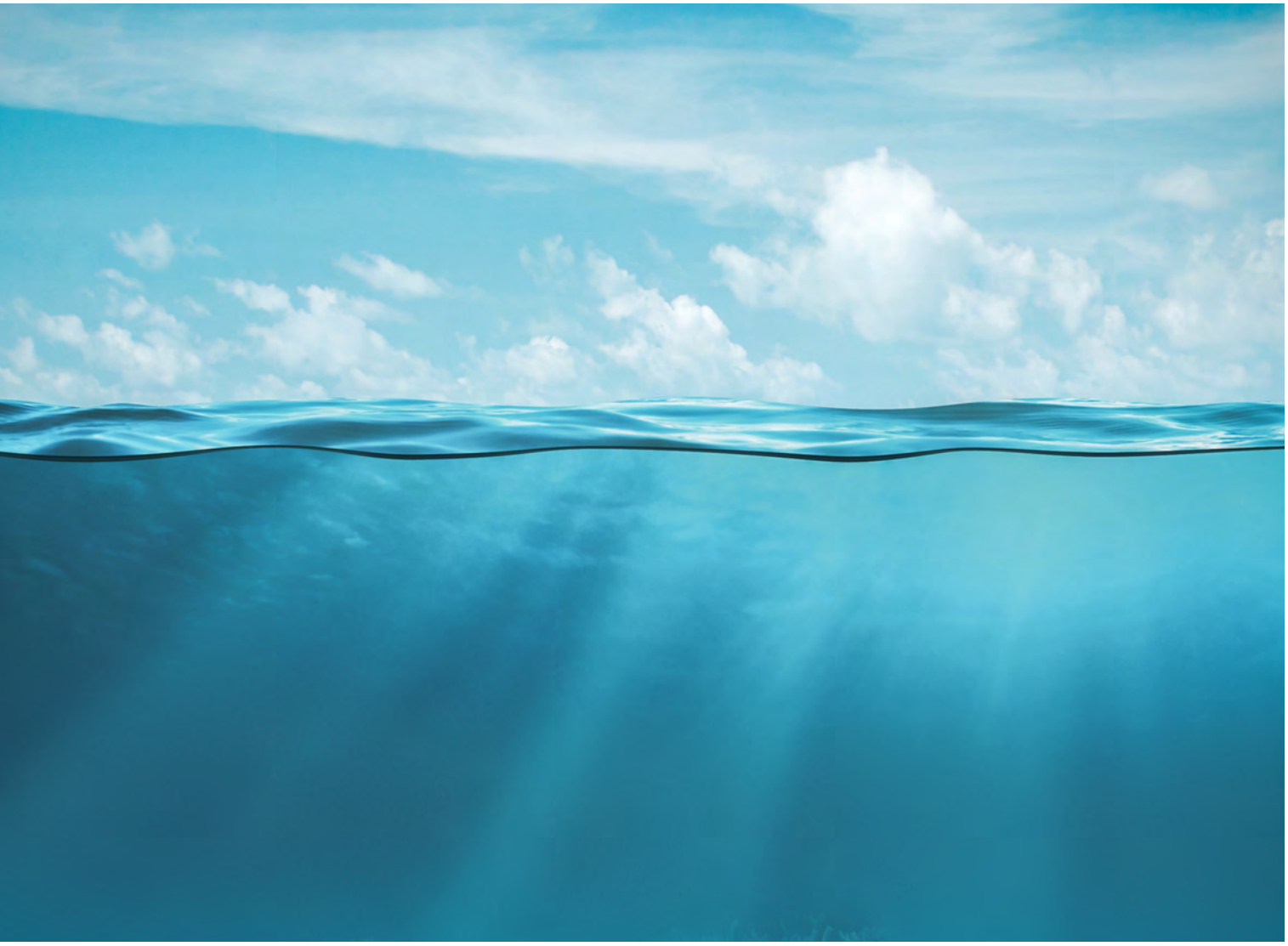
As a technology provider and economic part of society, our production facility in Zörbig near Leipzig is a clear commitment to Germany as a business location.

All of Dr. Hönle Medizintechnik GmbH´s medical products are manufactured there under strict conditions and quality requirements. In addition to new technologies, the latest findings from medical research are also incorporated into the continuous improvement process.

The close proximity between research, development and production as well as German production standards guarantee the first-class workmanship, functionality and durability of our products. That is why we offer a 4-year national and international warranty on all our medical products.

Regular surveys provide conclusions about the satisfaction of customers and patients, making it possible to incorporate these findings into service and product development quickly and in keeping with requirements.

The use of modern and innovative manufacturing techniques makes it possible for us to uphold ecological principles while offering our customers high-quality products at economical prices.



UV phototherapy

Make use of the advantages of the medically usable parts of invisible light

UV phototherapy is a treatment with ultraviolet light originating as a modern light therapy around 1900 as part of the treatment for skin tuberculosis. Over the past 40 years, photobiological research has produced a large number of publications highlighting the potential of UV phototherapy for the treatment of skin diseases. UV phototherapy has been established as a proven and therapeutically effective treatment method for many skin diseases such as vitiligo, psoriasis, neurodermatitis and various eczema.

Irradiation with UV light has a calming effect on the immune system. Inflammatory skin diseases such as neurodermatitis can be alleviated in this way. With psoriasis, the radiation has a growth-inhibiting effect and can thus stop the increased formation and flaking of skin cells.

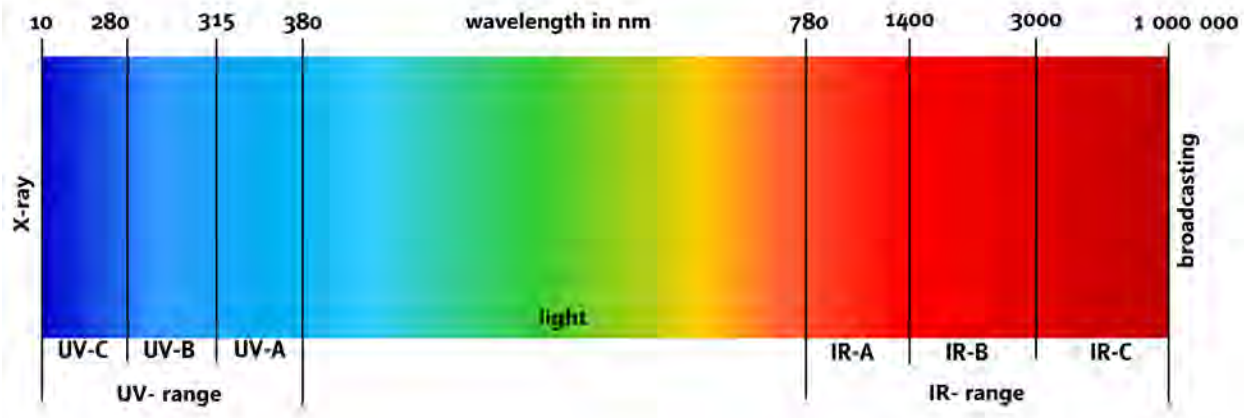
Irradiation is carried out with electronically controlled radiation systems equipped with special medical fluorescent tubes. UVB narrow-band spectrum emitters (305-315 nm) wavelength are rated as particularly effective for psoriasis. UVA (340-400 nm) is particularly effective for neurodermatitis. In addition, there are also some combination treatments such as PUVA photochemotherapy or balneo-phototherapy.

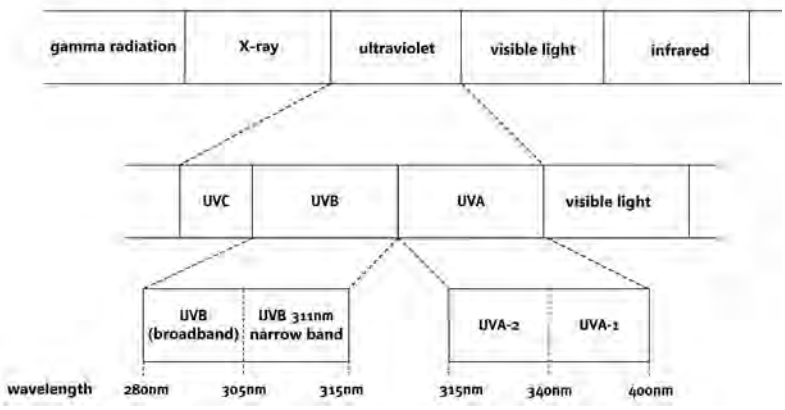
With the correct dosage and duration of treatment, the skin's appearance can be significantly improved, up to complete elimination of symptoms from the skin. Phototherapy can be performed on an outpatient basis and can be combined with other treatments. Our phototherapy systems for UV treatment in the doctor's practice and for home use are manufactured according to strict criteria for medical products. However, due to the need for correct dosage, medical supervision is mandatory.

Mechanism of action & application

Properties of optical radiation

The spectrum of optical radiation is between 100nm (UV) and 1 million nm (IR)



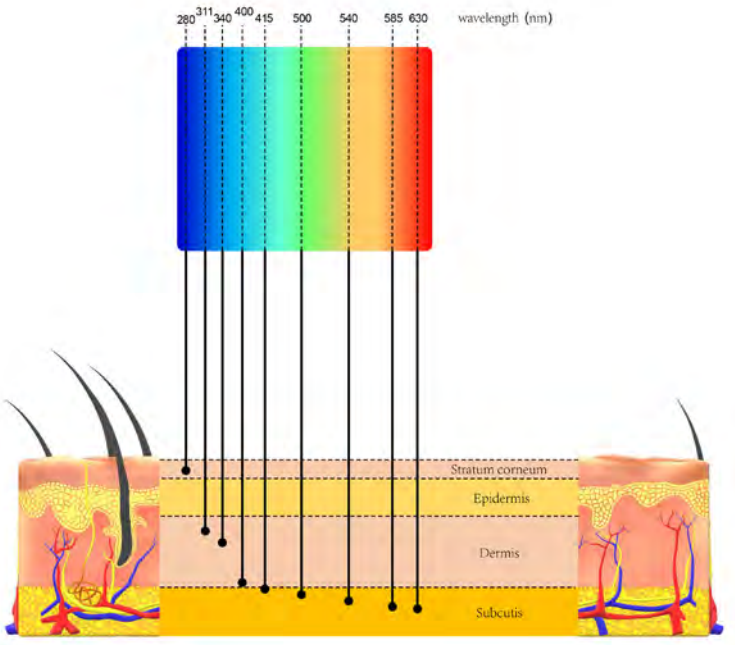


Optical properties of the skin

The illustration below shows the effect of optical radiation on the skin. In this context, the skin is seen as a non-homogeneous medium consisting of four layers:

- stratum corneum & stratum spinosum = epidermis (50-150µm thick incl. stratum basale)
- Dermis (0.8-1mm)
- Subcutis (1-3mm)

The named layers have a different chromophore distribution, so that the reflection, transmission and scattering properties are different depending on the wavelength. The figure illustrates the respective penetration depth of the wavelength.



Wavelengths and their indications

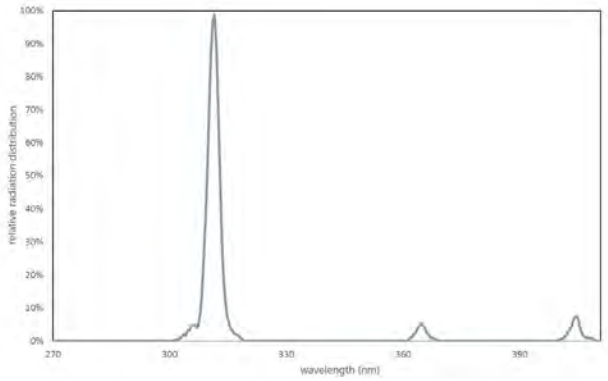
UVB 311nm (narrow band)	• Psoriasis • Plaque psoriasis • Vitiligo • Atopic dermatitis • Pruritus • Prurigo • Prophylaxis of polymorphic light dermatosis • Mycosis fungoides
UVB 311nm _ Combination therapy	Balneo-phototherapy (psoriasis)

UVA	• Neurodermatitis • Polymorphous light eruption
UVA_ Combination therapy	PUVA photochemotherapy (psoriasis & vitiligo)

Medical radiation lamps

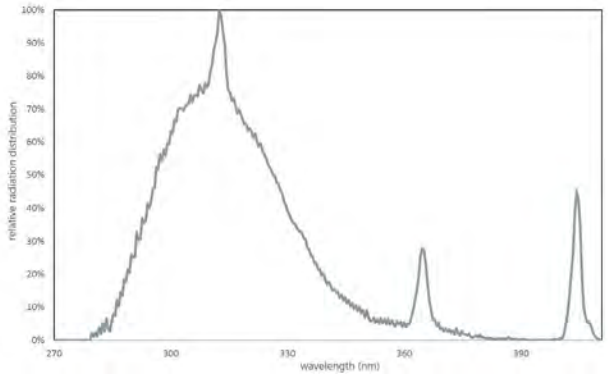
UVB 311nm (narrow band)

PL-S 8W
PL-S 9W
PL-L 36W
TL 100W
TL 120W



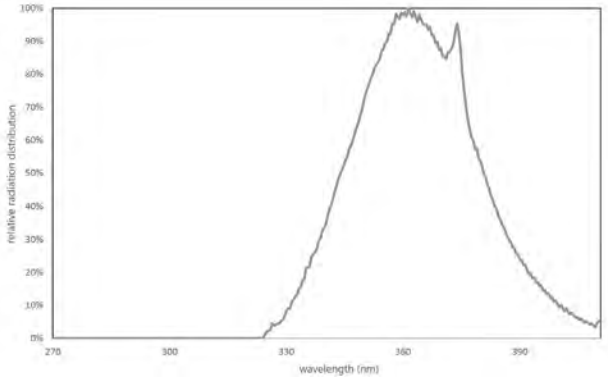
UVB (broadband)

TL 100W



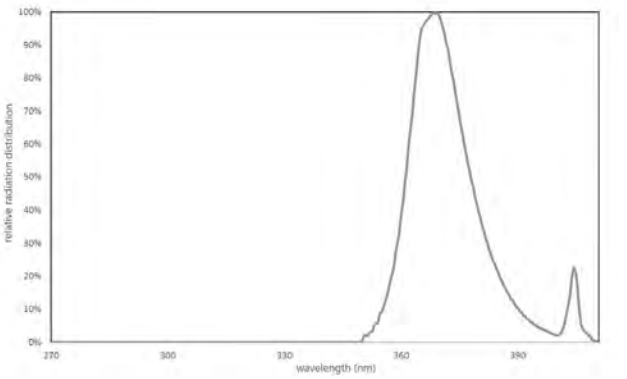
UVA

PL-S 9W
PL-L 36W
TL 100W
TL 120W



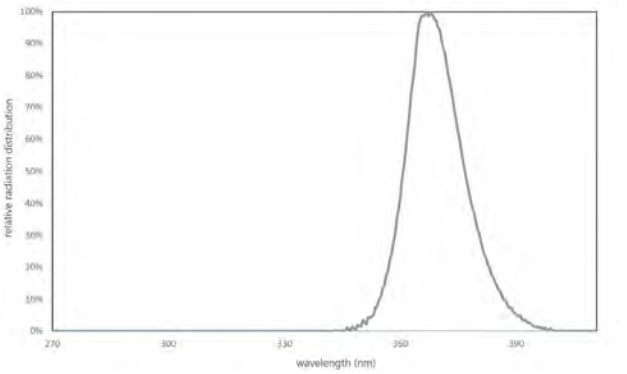
UVA-1

PL-S 9W
PL-L 36W
TL 100W

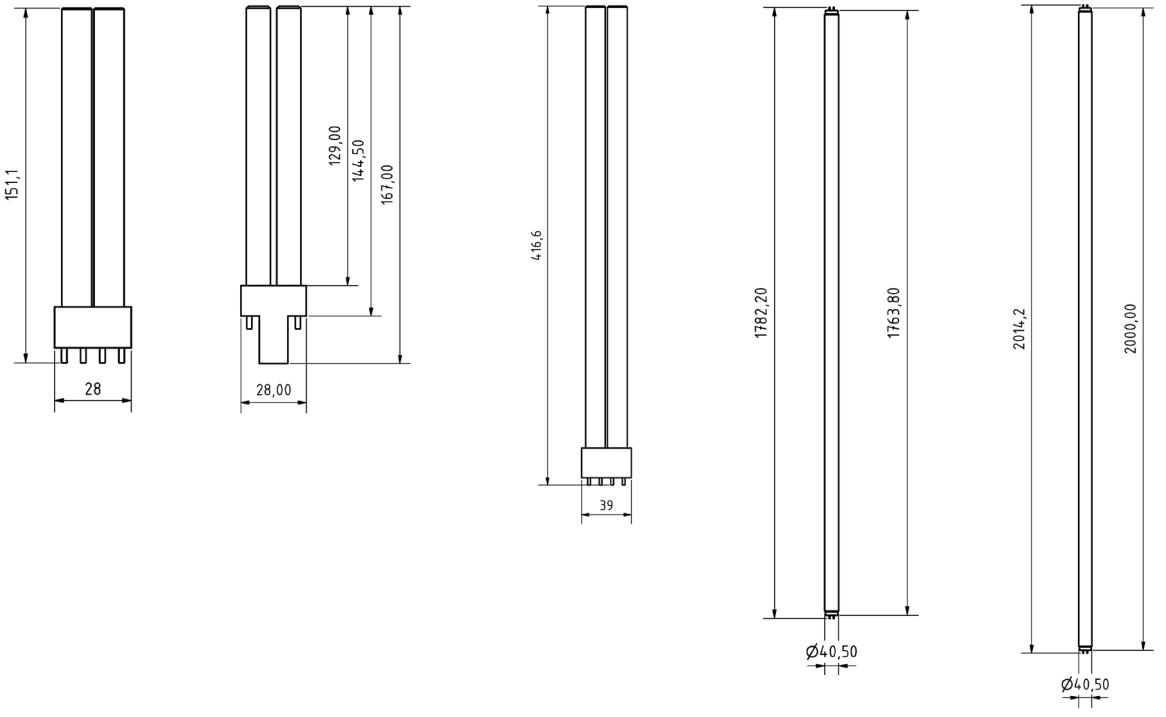


UVA Woodlight

PL-S 9W
PL-L 9W
PL-L 36W



Philips UV radiation lamps



PL-S 8W | PL-S 9W | PL-L 36W | TL 100W | TL 120W

dermalight®80R

Once around the world without borders

The UV comb for effective home treatment

The new lightweight and handy dermalight®80R enables extremely short application times due to its high irradiance and is the ideal UV comb for irradiating the scalp and hard-to-reach areas of the body. The removable comb attachment ensures even parting of the hair and the correct distance to the irradiation surface. Easy to use and clean, the dermalight®80R is also the ideal device for home treatment.

Compact data

Protection features

- Acrylic glass pane protects against direct contact & soiling of the spotlight
- Removable comb attachment serves as a spacer
- Meets all standards of the current state of the art
- Has current test reports issued by an accredited test laboratory.
- External control box enables convenient, safe and easy control of the unit
- Patient safety goggles protect users from UV radiation

Effectiveness

- Precise parting of the hair areas with the comb attachment for effective irradiation
- High irradiance, meaning short irradiation times
- Removable, dishwasher-safe comb attachment
- The wide-range plug allows the device to be used anywhere in the world without an additional transformer

Comfort

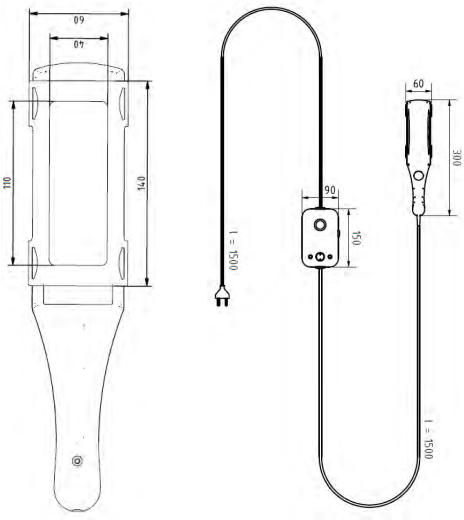
- Handy, light and convenient to store

Areas of application

- Scalp and smaller skin areas (hard-to-reach parts of the body)

Technical data

Control box dimensions (LxWxH)	15 x 9 x 5,5 cm
Comb dimensions (LxWxH)	30 x 6 x 4,5 cm
Weight	0.8 kg
Radiation outlet	11 x 4 cm
Irradiance	5.7 mW/ cm² (with comb attachment)
Power supply	110V - 240V / 50/60 Hz (wide range)
Class according to MPG & labelling	IIa / CE0123
Scope of delivery	• 1 dermalight®80R • 1 BASIC or PLUS control box • 1 comb attachment • 1 pair of UV-protective goggles (patient) • 1 short timer • 1 patient journal • 1 instruction manual

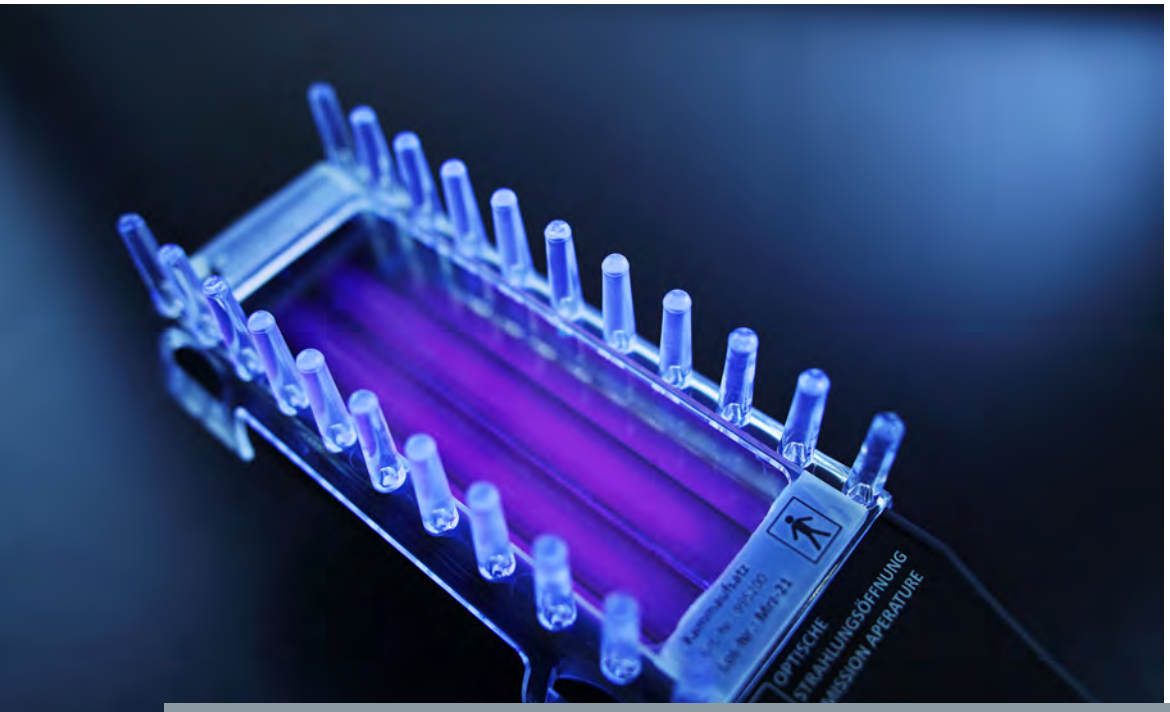


Subject to technical changes

Dimensions in millimetres

Assembly variants

Mono units	UV compact lamp (UVB 311nm)	1x 8W



dermalight®80R Woodlight

In addition to UVA irradiation, the dermalight®80 UVA Woodlight is used to detect the fluorescence of disease foci and assess pigment changes. The Woodlight should always be used when the diagnosis between a melanoma/ melanocyte hyperplasia and a haematoma is clinically inconclusive. The melanoma or melanocyte hyperplasia is black under Woodlight, the haematoma is burgundy under Woodlight.
The dermalight®80 UVA Woodlight is also used for fluorescence diagnostics (FD) for in vivo diagnostics of dysplastic tissues and superficial tumours in conjunction with a locally or systemically applied dye, e.g. PPIX or 5-ALA, which are used in photodynamic therapy.

Compact data

Protection features

- Acrylic glass pane protects against direct contact & soiling of the spotlight
- External control box enables convenient, safe and easy control of the unit
- Patient safety goggles protect users from UV radiation

Effectiveness

- Precise determination of the erythema threshold
- Control independent of skin
- Easy handling for hard-to-reach areas of the body
- Short treatment times due to high intensity
- Large homogeneous irradiation field due to optimised reflectors

Comfort

- Handy, light and convenient to store
- The removable comb attachment serves as a spacer and is dishwasher safe

Areas of application

- Diagnostic system for determining the erythema threshold before starting UV therapy

Fluorescence - table

Erythrasma	Red fluorescence
Microsporia	weak greenish fluorescence
Favus	toxic green fluorescence
Trichobacteriosis axillaris	yellow-ochre fluorescence

Ash leaf stain	blue-white fluorescence on normal skin
Vitiligo	Blue-white - light-white fluorescence on depigmented areas
Scabies	grey-white mites
Pityriasis Versicolor	yellow-ochre fluorescence

Technical data

Control box dimensions (LxWxH)	15 x 9 x 5,5 cm
Comb dimensions (LxWxH)	30 x 6 x 4,5 cm
Light emission (LxW)	11 x 4 cm
Mains connection	110V - 240V / 50/60 Hz (wide range)

Subject to technical changes

Assembly variants

Mono units	UV compact lamp (UVA Woodlight)	1x 9W

Electric G-WEE reg. no.: DE 14312030

IK 590910502 / prequalified according to §126 1[a] SGB V, for the care areas 6A and 9A
These are medical devices in conformity with EEC Directive 93/42, the Medical Devices Act (MPG), Directive 2011/65/EU (European Environmental Protection Directive RoHS II), which bear the CE mark. Member of Qualitätsverbund Hilfsmittel e.V.

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