

# MultiLite®

DAYLIGHT PDT SYSTEM

**THE GENTLE ALTERNATIVE FOR  
PHOTODYNAMIC THERAPY**



*Tricolor LED system for artificial daylight and  
conventional photodynamic therapy (PDT).*

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**GME**  
German Medical Engineering

# THE GENTLE ALTERNATIVE FOR YOUR PATIENTS

**a single system for  
artificial daylight &  
conventional PDT**

**class IIa  
medical device  
with CE marking**

**equally suited for  
large-area application**

“The MultiLite® is an important component for the gentle but consistently effective, if necessary laser-assisted, artificial daylight PDT of large areas of field-cancerized skin. This currently most innovative form of PDT enables standardized and therefore safe therapy throughout the year.”

**Prof. Dr. med. habil. Uwe Paasch**  
**Dermatologist, Practice Jesewitz & Private Practice**

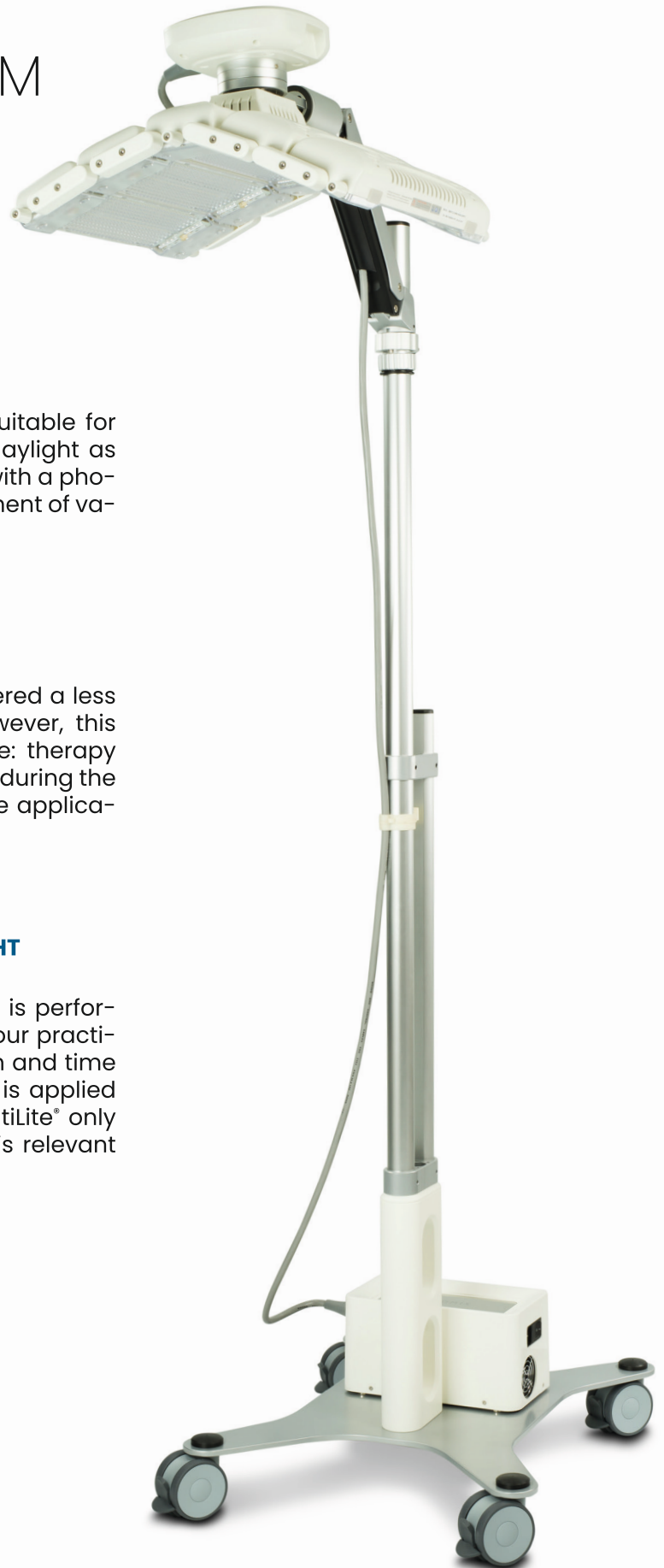
**clinically tested  
by experts**

**no consumables  
or disposables**

**durable  
light source**

# MultiLite®

## DAYLIGHT PDT SYSTEM



### MULTILITE®

The MultiLite® is a multicolored LED system suitable for photodynamic therapy (PDT) with artificial daylight as well as for conventional PDT. In combination with a photosensitizer, the MultiLite® is used for the treatment of various dermatoses.

### PHOTODYNAMIC THERAPY

Phototherapy with **natural** sunlight is considered a less painful alternative to conventional PDT. However, this form of therapy has a serious disadvantage: therapy with natural sunlight can rarely be performed during the winter months. It is also difficult to control the application of a sufficiently effective dose.

### INDEPENDENT, CONTROLLED & FREE OF UV LIGHT

With the MultiLite®, by contrast, phototherapy is performed in a controlled manner at any time in your practice rooms - regardless of the weather, season and time of day. During treatment, a fitting light dose is applied depending on the selected protocol. The MultiLite® only emits the spectrum of natural sunlight that is relevant for PDT. No harmful UV light is emitted at all.

# MultiLite®

## PROTOCOLS & TECHNOLOGY

### PROTOCOLS FOR INDOOR DAYLIGHT PDT

To fulfill the needs of your patients at all times, the MultiLite® offers a selection of easily adjustable protocols tailored to PDT treatments.

**IDL PDT**  
**35/60/80 MIN**

#### SEQUENTIAL EXPOSURE

These protocols start with blue light, followed by yellow light and finally red light. This leads to a layer-by-layer activation of the accumulated PpIX. Depending on the exposure time, this results in a greater reduction in pain for the patient.

**IDL PDT**  
**120 MIN**

#### SIMULTANEOUS EXPOSURE

During treatment with this protocol, the MultiLite® activates the light colors blue, yellow and red simultaneously. Exposure time is 120 minutes. This corresponds to the recommended exposure time for photodynamic therapy with natural sunlight.

**cPDT**  
**PROTOCOL**

#### MONOCHROMATIC EXPOSURE

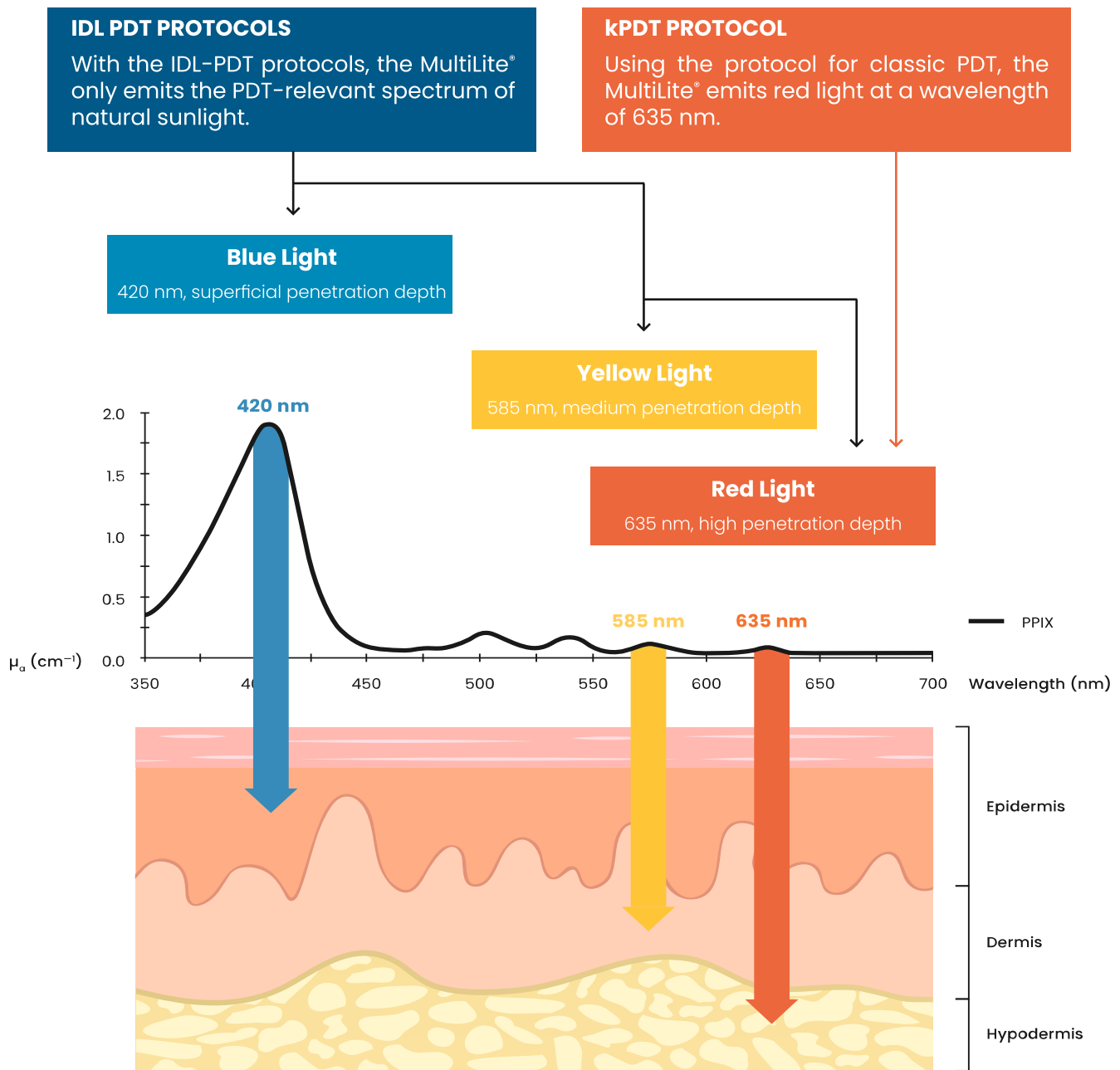
The parameters of the classic red light PDT are defined for this MultiLite® protocol. The exposure time is 12.5 minutes and treatment is performed exclusively with red light at a wavelength of 635 nm.

### MANUAL PROTOCOL

The manual protocol is designed for experienced users and is suitable for further phototherapy indications. With this protocol, you can manually define the treatment parameters of the MultiLite®. This allows you to individually customize the treatment to all requirements.

## MULTILITE® TECHNOLOGY

With the MultiLite®, photodynamic therapy is performed in a controlled manner at all times, regardless of the weather, season and time of day. During treatment, a high dose of light is applied, which is often unattainable in our latitudes due to climatic conditions. The MultiLite® only emits the PDT-relevant spectrum of natural sunlight. No harmful UV light is emitted at all.



## LED-TECHNOLOGY

Special LEDs with a wavelength of 420 nm are used for the MultiLite®. White-light LEDs, which are used for room illumination, are suitable for PDT only to a very limited extent, as they commonly start at a wavelength of around 450 nm due to their technology.

# MultiLite®

## CLINICAL USE

### CLINICAL APPLICATION OBSERVATION

Dermatologists from 15 institutions tested two MultiLite® IDL PDT protocols. A total of 1,382 patients with field cancerizations were treated.

### USED PROTOCOLS

#### IDL PDT 35 MIN

No. of patients: 1,166  
Incubation time: 60 minutes  
Exposure time: 35 minutes

#### IDL PDT 80 MIN

No. of patients: 216  
Incubation time: 30 minutes  
Exposure time: 80 minutes

### PAIN

Specified on a scale from 0 (no pain) to 10 (maximum pain):

#### IDL PDT 35 MIN PROTOCOL

3

#### IDL PDT 80 MIN PROTOCOL

2

### RESULTS

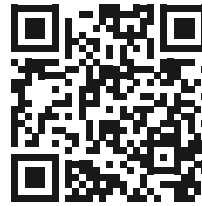
Treatments with the MultiLite® result in an 85% healing rate and minimum pain.

### SIDE EFFECTS

Side effects such as reddening of the skin occurred rarely during the observational study, are generally temporary and comparable to all other PDT variants.

## CONTACT US

Contact us for more information on Germany's favorite PDT system MultiLite®. We are happy to help you find a distributor and service partner near you! Simply scan the QR code with your smartphone camera to directly get in touch with us.



CONTACT US FOR  
MORE INFORMATION!

[www.pdt-system.de/contact/](http://www.pdt-system.de/contact/)

## SPECIFICATIONS

Light source	LED – Light Emitting Diode	
Wavelength	420 nm, 585 nm, 635 nm	
Max. dose per wavelength	420 nm	98 J/cm <sup>2</sup>
	585 nm	48 J/cm <sup>2</sup>
	635 nm	120 J/cm <sup>2</sup>
Power density per wavelength	420 nm	41 mW/cm <sup>2</sup>
	585 nm	20 mW/cm <sup>2</sup>
	635 nm	50 mW/cm <sup>2</sup>
Treatment area	500 cm <sup>2</sup>	
Dimensions (H x L x W)	159 cm x 60 cm x 60 cm	
Weight	27 kg	
Indications	Photodynamic Therapy (PDT), Wound Healing, Skin Rejuvenation, Acne	



## MANUFACTURER INFORMATION

Manufacturer according to Medical Device Directive 93/42/EEC: Medmix Co., Ltd.

**CE 1984**

# MultiLite®

DAYLIGHT PDT SYSTEM

## INDICATIONS:

**PHOTODYNAMIC THERAPY**  
**ACNE**

**SKIN REJUVENATION**  
**WOUND HEALING**

## ALL ADVANTAGES AT A GLANCE:

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Dreikoenigstr. 6 - 8  
91054 Erlangen, Germany  
Tel.: +49 9131 934 159 0  
Fax: +49 9131 934 159 99  
Website: [www.gmeonline.de](http://www.gmeonline.de)  
Email: [info@gmeonline.de](mailto:info@gmeonline.de)

More information on the MultiLite®: [www.pdt-system.de](http://www.pdt-system.de)

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