

# THE GENTLE ALTERNATIVE FOR YOUR PATIENTS

a single system for artificial daylight & conventional PDT

class 2a medical device with CE approval

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 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 actinic keratoses (AK) and non-melanocytic skin cancer (NMSC).

#### **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 AK and NMSC indications:



#### **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**

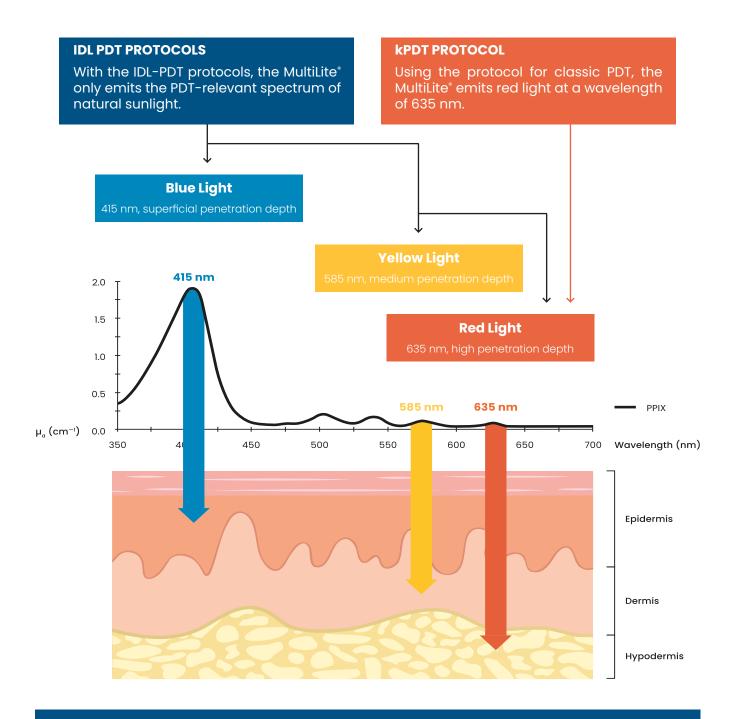
The parameters of the classic red light PDT are defined for this Multi-Lite\* protocol. The exposure time is 12.5 minutes and treatment is performed exclusively with red light at a wavelength of 635 nm. The cPDT protocol is recommended for indications like basal cell carcinoma and Bowen's disease.

#### **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 415 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.



#### **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/

#### **SPECIFICATIONS**

Light source	LED — Light Emitting Diode	
Wavelength	415 nm, 585 nm, 635 nm	
Max. dose per wavelength	415 nm	98 J/cm²
	585 nm	48 J/cm²
	635 nm	120 J/cm²
Power density per wavelength	415 nm	41 mW/cm²
	585 nm	20 mW/cm²
	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),	
	Atopic Dermatitis, Eczema, Acne	



#### **MANUFACTURER INFORMATION**

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



### **INDICATIONS:**

PHOTODYNAMIC THERAPY
ACNE

ECZEMA
ATOPIC DERMATITIS

## ALL ADVANTAGES AT A GLANCE:

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