

### Optimal for

NDT area

UV curing,

UV drying

Robust aluminum housing.

Lightweight construction

Ergonomically shaped handle

Automatic switching between UV and white light

White light content with UV light: <5 lux

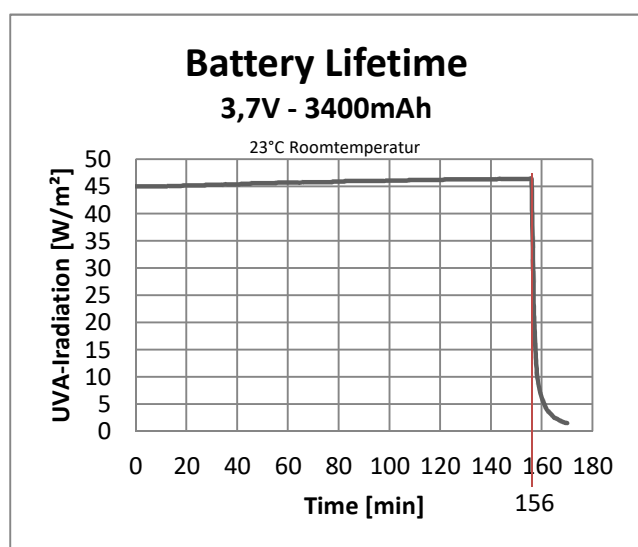
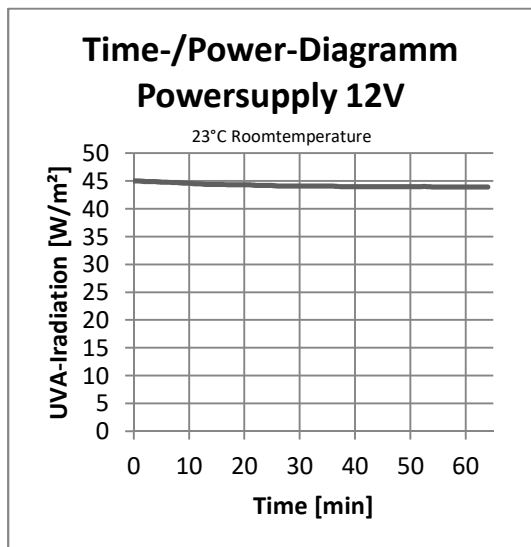
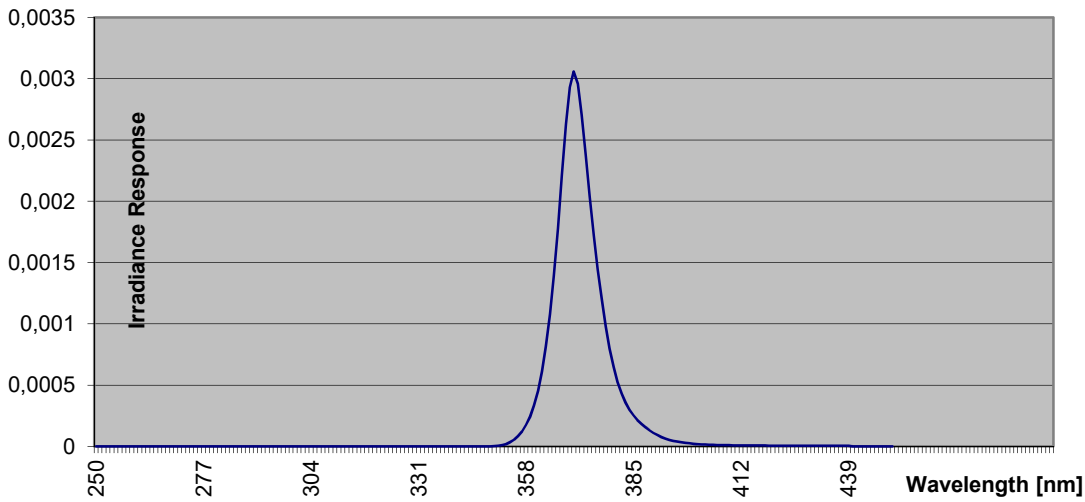
Protective shut-off at overtemperature.

Battery or mains operation

**two years warranty including UV Leds**



<b>Power requirements</b>	100-240 VAC~50-60Hz 12VDC / 1,5A
<b>Power input</b>	15W
<b>Case</b>	Aluminium / Plastic
<b>Weight</b>	Incl. Battery 540g
<b>Size</b>	145x17x63,5mm
<b>Security class DIN EN60529</b>	IP64
<b>Lifetime UV-LED</b>	> 10.000 h
<b>Battery – lifetime</b>	> 150 min
<b>Working temperatur</b>	10-35°C
<b>Case temperatur</b>	< 40°C
<b>LED</b>	2x365 nm +/- 10 nm 1xWhitelight-orientation
<b>UV Power</b>	45W/m <sup>2</sup> distance 380mm Ø 150mm
<b>Riskclass</b>	2 nach EM 6 und BGFE
<b>Purchased parts package</b>	US700, Powersupply 12V with Euro-adapters, Transportcase, 2xBattery Li-Ion 3,7V, Charger for 2xLi-Ion- charge time 6Hr, Connecting cable 2m, Measurement protocol



### Optimal for

NDT Area

**E3022-15**  
**DIN EN ISO 3059**  
**Rolls-Royce**  
**RRES 90061**

flicker free Leds

Robust aluminum housing with POM

Lightweight construction

Ergonomically shaped handle

Automatic switching between UV and white light

White light content with UV light: <5

Protective shut-off at 70c° Led Temperature

Battery or mains operation

automatic switch off by emty batterys

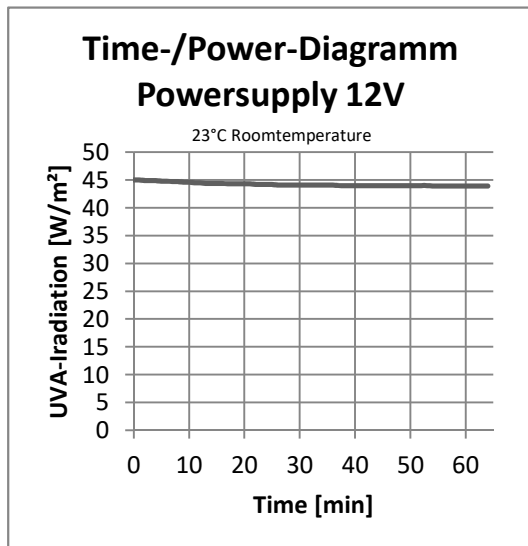
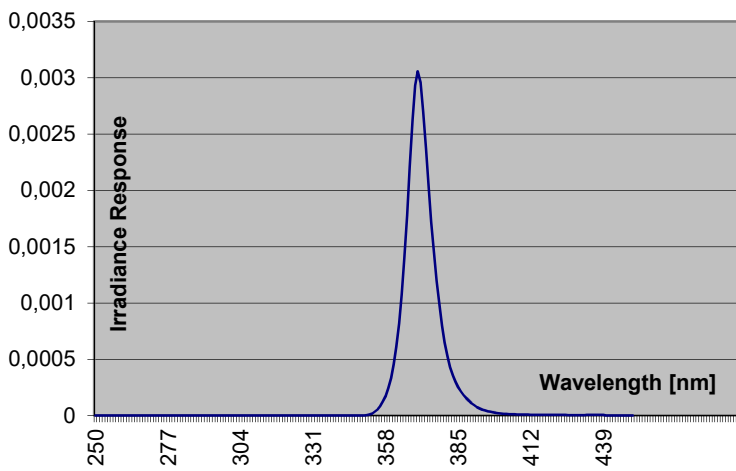
Status Led red/green

protective rubber edges

**two years warranty including UV Leds**



<b>Power requirements</b>	100-240 VAC~50-60Hz 12VDC / 1,5A
<b>Power input</b>	15W
<b>Case</b>	Aluminium / POM
<b>Weight</b>	Incl. Battery 460g
<b>Size</b>	160x85x100mm
<b>Security class DIN EN60529</b>	IP64
<b>Lifetime UV-LED</b>	> 10.000 h
<b>Battery – lifetime</b>	appx 240min
<b>Working temperatur</b>	10-40°C
<b>Case temperatur</b>	< 40°C
<b>UV LED highpower</b>	5x365 nm +/- 5 nm 1xWhitelight-orientation
<b>UV Power</b>	>45W/m <sup>2</sup> distance 380mm Ø 200mm
<b>Riskclass</b>	2 nach EM 6 und BGFE
<b>Purcharged parts package</b>	US710, Powersupply 12V Euro with 2m connecting cable, Transportcase, 4xBattery Li-Ion 3,7V- 3400mAh, Charger for 2xLi-Ion- charge time 4Hr, Connecting cable 2m, Measurement protocol





Optimal illumination for  
NDT area or  
UV curing / drying

Robust aluminum  
housing.

Small and lightweight  
design

Low housing warming

White light at  
UV light: <5 lux

Protection shutdown  
at over temperature

Optionally available:

- Integrated white  
light

The width can be  
cascaded for larger  
workpieces

**two years  
warranty  
including UV  
Led**

<b>Power requirements</b>	100-240 VAC ~ 50-60 Hz
<b>Input power</b>	60W
<b>Case</b>	Aluminium
<b>Weight</b>	2,5kg
<b>Size</b>	290mm x 167mm x 57mm
<b>Security class DIN EN60529</b>	IP64
<b>Lifetime UV-LED</b>	> 10.000 Std.
<b>Working temperature</b>	10-35°C
<b>LED</b>	8x Highpower Leds, 365 nm +/- 5 nm
<b>Filter</b>	UV special filter, cut 400nm
<b>UV-Power</b>	> 45W/m <sup>2</sup>
<b>Risk class</b>	2 / EM 6 and BGFE
<b>Connecting cable</b>	2,5m connecting cable with cable -switch
<b>Purchased parts package</b>	US1000/2eco, Power plug supply with cable switch on/off and world adapters, measurement protocol
<b>Optional accessories</b>	UV-safety glasses, cascaded profile,

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Optionally available:  
- Integrated white  
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cascaded for larger  
workpieces

**two years  
warranty  
including  
UV Led**



<b>Power requirements</b>	100-240 VAC ~ 50-60 Hz
<b>Input power</b>	60W
<b>Case</b>	Aluminium
<b>Weight</b>	3,5kg
<b>Size</b>	290mm x 290mm x 57mm
<b>Security class DIN EN60529</b>	IP64
<b>Lifetime UV-LED</b>	> 10.000 Std.
<b>Working temperature</b>	10-35°C
<b>LED</b>	16x Highpower Leds, 365 nm +/- 5 nm
<b>Filter</b>	UV special filter, cut 400nm
<b>UV-Power</b>	> 45W/m <sup>2</sup>
<b>Risk class</b>	2 / EM 6 and BGFE
<b>Connecting cable</b>	2,5m connecting cable with cable -switch
<b>Purchased parts package</b>	US1000/4eco, Power plug supply with cable switch on/off and world adapters, measurement protocol
<b>Optional accessories</b>	UV-safety glasses, cascaded profile,

Optimal illumination for NDT area or UV curing / drying

Robust aluminum housing.

Small and lightweight design

Low housing warming

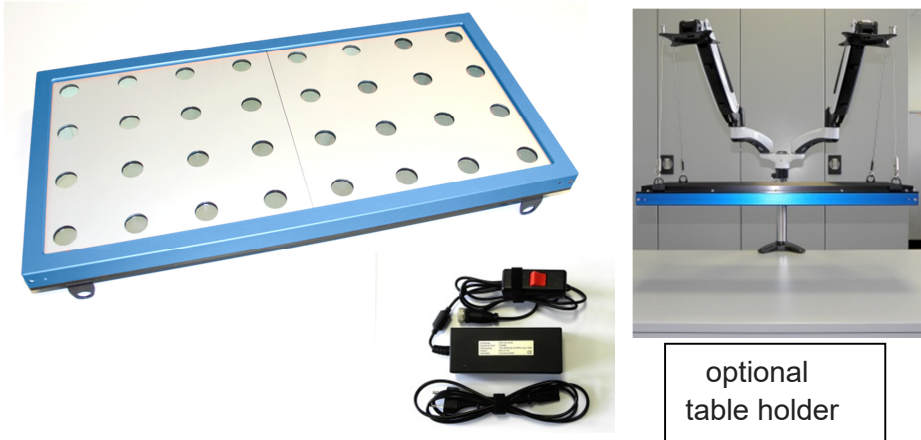
White light at UV light: <5 lux

Protection shutdown at over temperature

Optionally available:  
- footswitch  
- Integrated white light

The width can be cascaded for larger workpieces

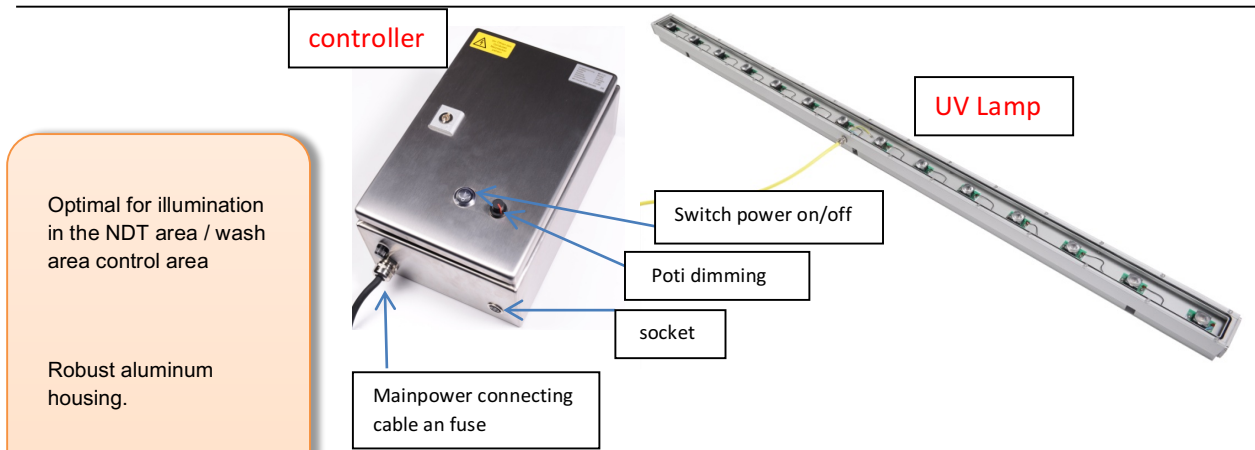
**two years warranty including UV Led**



<b>Power requirements</b>	100-240 VAC ~ 50-60 Hz
<b>Input power</b>	70W
<b>Case</b>	Aluminium
<b>Weight</b>	5,5kg
<b>Size</b>	570mm x 290mm x 57mm
<b>Security class DIN EN60529</b>	IP64
<b>Lifetime UV-LED</b>	> 10.000 Std.
<b>Working temperature</b>	10-35°C
<b>LED</b>	32x Highpower Leds, 365 nm +/- 5 nm
<b>Filter</b>	UV special filter, cut 400nm
<b>UV-Power</b>	> 45W/m <sup>2</sup>
<b>Risk class</b>	2 / EM 6 and BGFE
<b>Connecting cable</b>	2,5m connecting cable with cable -switch
<b>Purchased parts package</b>	US4018 Blueline, Cable power supply with cable switch on/off and measurement protocol
<b>Optional accessories</b>	cascaded profile optional table holder

# Product information

## US 4120 wash place/control lamp



- Optimal for illumination in the NDT area / wash area control area
- Robust aluminum housing.
- Low housing heating
- White light content at UV light: <20 lux
- Protection shutdown at overtemperature  
Optionally available:
- Filter glass for white light <5Lux
- cascadable
- Up to 10 lamps can be operated with only one control unit

<b>Power requirements</b>	100-240 VAC ~ 50-60 Hz
<b>Input Power</b>	appx 70W
<b>Case</b>	Aluminium
<b>Weight</b>	ca. 3,5kg
<b>Size lamp</b>	750 x 50 x 60mm l/h/b
<b>Security class DIN EN60529</b>	IP67
<b>Lifetime UV-LED</b>	>10.000 hrs.
<b>Working temperature</b>	10-40°C
<b>Case temperature</b>	< 50°C
<b>LED</b>	17 x 365 nm +/- 5nm
<b>UV-irradiation</b>	appx 10W/m <sup>2</sup> distance 750mm,
<b>Risic class</b>	2 - EM 6 and DGZFP
<b>Connecting cables</b>	5m power-cable controller 10m connecting cable
<b>Control unit in stainless steel</b>	300x200x150mm l/h/b
<b>Delivery parts</b>	US4120, controler for 1 lamp, 10m connecting cable
<b>Optional accessories</b>	UV safety glasses, control unit is expandable up to 10 lamps. Specify when ordering, dimming 30 – 100%
<b>illumination field</b>	Appx 700x1500mm (5–10W/m <sup>2</sup> )



**R. B. M. Ltd.**  
CONTROL & MECHANIZATION

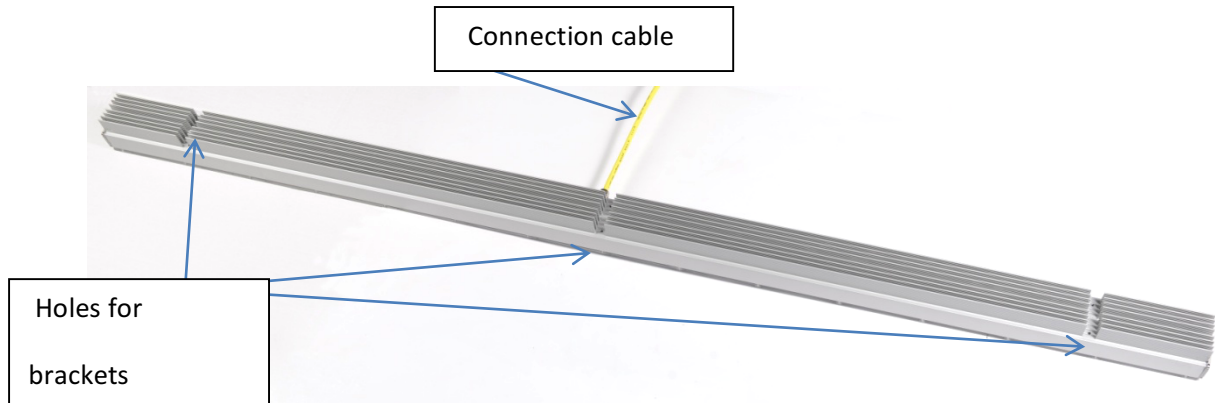
www.rbmltd.co.il 09-7674431:70  
rbmltd@rbmltd.co.il 7097 סבא



# Product information

## US 4120 wash place/control lamp

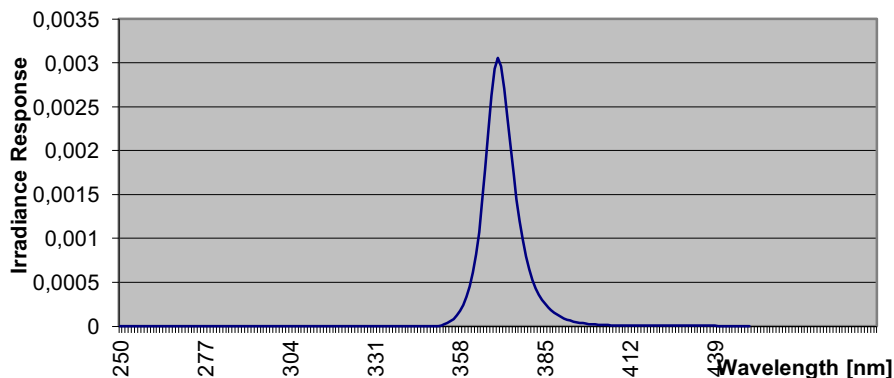
### Description:



The US 4120 is the consistent and innovative extension of our product range in the field of non-destructive material testing. This stationary UV luminaire can be tested at test stations / washing places in a hard working environment.

The US 4120 reaches its final power immediately after switching on and can be switched on immediately after switching off. The UV power of the US 4120 is achieved by 14 high-power Led's, each with 3 watts of individual power. In operation there is no noise level due to fans. The cooling of the leds takes place exclusively via high-performance heat sinks.

### Spectral distribution



# Product data sheet US5000 US dosimeter II #UV# Personal dosimetry

This personal protection dosimeter is designed to monitor and protect employees under existing legislation in the UV-exposed areas.

The reduction of the exposure to artificial optical radiation is based on the principles of risk prevention laid down in Directive 89/391 / EEC.

This high tech device

owns one

electronic skin (erythema sensor) and assesses any optical and natural UV radiation according to their endangerment.

All erythema values are recorded continuously in a minute interval.

If the legal limit values are exceeded, the device gives a visual and audible alarm.

The employee must then contact a responsible safety officer immediately.

All measured values can be read out via the supplied software and saved in Excel format on the PC.

The device is charged via the supplied USB cable and the data is read out



<b>Case</b>	ABS plastic white with clip
<b>Weight &amp; Dimensions</b>	20g (20x15x5mm)
<b>Measuring range</b>	0 – 300mW/m <sup>2</sup> Erythema
<b>Safety class DIN EN 60529</b>	IP54
<b>Number of maximum stored readings</b>	32,836 approx. 22 days with date and time
<b>working temperature</b>	10–40°C
<b>Case temperature</b>	none
<b>Alarm message after 1 MED</b>	Optically by bar graph Led and audible warning tone every 30 seconds.
<b>Battery life time Li Ion</b>	about 22 days
<b>Recommended battery charge and data storage</b>	Once a week
<b>Battery power status</b>	Optically through middle Led
<b>Hazardous state assessment</b>	Press button, 1 green LED workplace safe, 5 red LED very dangerous
<b>Delivery parts</b>	Dosimeter II, USB stick with evaluation software and Microsoft10 driver, USB charging / connection cable 0.5m, calibration protocol, transport box
<b>Optional</b>	Dosimeter II with extended measuring range for outdoor applications with very high UV exposure.

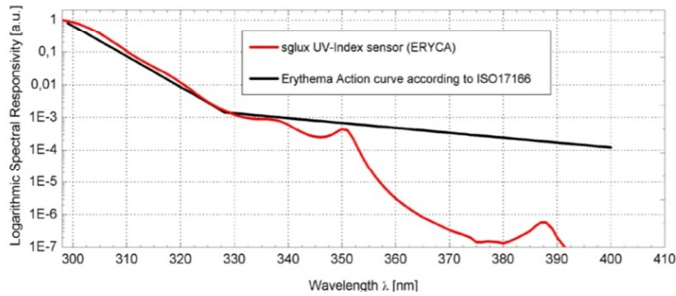


# Product data sheet US5000

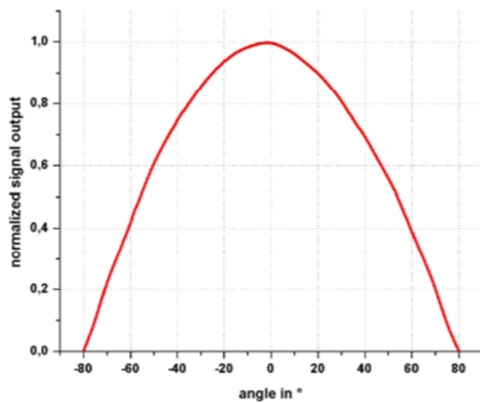
## US dosimeter II #UV#

### Personal dosimetry

#### NORMALIZED SPECTRAL RESPONSIVITY & ERYTHEMA ACTION CURVE



#### FIELD OF VIEW



#### Calculation 1MED

**1 MED equals the lowest irradiation dose which, when read after 24 hours, caused a sharply limited erythema (redness) of the skin. This dose varies greatly even among people with the same skin type. For fair-skinned people of skin type II, 1 MED corresponds to about 250-400 J / m<sup>2</sup> (25-40 mJ / cm<sup>2</sup>).**

The minimum erythema dose (MED) (also called erythema threshold dose) is a measure of the tolerance of the human skin to ultraviolet radiation, in particular to the shortwave ultraviolet portion of the spectrum at about 300 nm wavelength.





Optimal solution for  
UV-drying and UV-  
Curing

**New wing panels  
for optimum  
illumination of 3D  
objects**

Suitable for flat  
and uniform  
illumination.

Robust aluminum  
housing

Protection  
shutdown at over-  
temperature.

Optional:  
Special filters for  
suppressing the  
white light  
component to  
<5lux

Selectable  
wavelength

Mixed Spectrum

<b>Operating voltage</b>	24VDC / 2100 mA
<b>Power supply</b>	100-240 VAC ~ 50-60 Hz 24VDC / 2,5A
<b>Input Power</b>	62W
<b>Case</b>	Aluminum
<b>Weight</b>	1650g
<b>Dimensions</b>	272mm x 170mm x 31,5mm
<b>Security class DIN EN60529</b>	IP64
<b>Lifetime UV-LED</b>	> 10.000 hours
<b>Working temperature</b>	10-35°C
<b>1 x LED-Master 9 x 2 x LED-Slave 3 x</b>	15x365 nm +/- 10 nm
<b>Risk class</b>	2 of EM 6 and BGFE
<b>Connecting cable</b>	1,5m connecting cable with cable –switch on/off
<b>Purchased parts package</b>	US480-cluster-Blueline, Power plug supply 24V- DC with cable switch on/off and world adapters, measurement protocol
<b>Optional accessories</b>	UV-safety glasses, 5 years warranty Carrying case, other wavelengths of 275 nm - 680 nm available

**Ideal for the NDT area**  
**Compliant to**

**E3022-15**

**DIN EN ISO 3059**

**Rolls-Royce**

**RRES 90061**

Flicker-free control,  
longer life time of the  
LEDs and batteries

Robust aluminum  
housing. Lightweight  
design

Ergonomic 3D printing  
handle, alkali and acid  
resistance

Automatic switching  
between UV and white  
light

White light component  
with UV light <5Lux with  
special filter

Protective shutdown in  
the event of excess  
temperature

Battery or mains  
operation

Automatic shutdown  
when the batteries are  
empty

Protective ring / Led  
head made of rubber

Status display via two  
multi-color LEDs

Latest LED and control  
electronics

**Two year**  
**guarantee**  
**inclusive UV Leds**



<b><u>Basic version</u></b>	
<b>Power input</b>	15W
<b>Case</b>	Aluminium / POM
<b>Weight</b>	Inclusive battery 460g
<b>Size</b>	160x85x100mm
<b>Secure Class DIN EN60529</b>	IP64
<b>UV-LED Lifetime</b>	> 20.000 hours
<b>Battery operation time</b>	app 240 min
<b>Working temperature</b>	10-40°C, case heat max <30°C
<b>LED</b>	5x365nm +/- 5nm 1x white light for orientation
<b>UV Power</b>	45W/m <sup>2</sup> distance 380mm Ø 200mm, 30° Optics
<b>Risk class</b>	2 - EM 6 and BGFE
<b>Delivery parts</b>	US 720/NDT, 2xBattery Li-Ion 3400mAh, Plug-in power supply 12V with Worldadapter – Cable-length 2m Charger for 2xLi-Ion-Akku- charging time 4 Std.), Measurement protocol

<b><u>Optionen</u></b>	
<b>Option 1</b>	Automatic detection of defective LEDs with safety shutdown
<b>Option 2</b>	Automatic intensity adjustment (45W / m) of the UV radiation in the range of 200mm - 500mm distance. Safety shutdown / eye protection at a distance outside the area or when the light is placed on the work surface
<b>Option 3</b>	UV Power >120W/m <sup>2</sup> (not with option 2)
<b>Option 4</b>	Guarantee extension by a further 3 years to a total of 5 years
<b>Option 5</b>	Transport case with cut inley / foam
<b>Option 6</b>	<b>OEM aluminum housing color in orange, red or blue</b>

