



# NEXT GENERATION

IP64

dust tight &  
splashproof



**MR<sup>®</sup> 42**

The Powerful -  
UVA: 140 W/m<sup>2</sup>



**MR<sup>®</sup> 431**

Low Cost Version



**MR<sup>®</sup> 98 WAN**

The Independent -  
power supply / battery

Your partner in NDT! – [www.mr-chemie.de](http://www.mr-chemie.de)

**MR<sup>®</sup>**  
CHEMIE  
NDT-materials



# UV technology

NEXT GENERATION - IP64  
MR<sup>®</sup> 98 WAN - MR<sup>®</sup> 42 - MR<sup>®</sup> 431



	MR <sup>®</sup> 98 WAN Brilliant LED - The Independent -	MR <sup>®</sup> 42 Super LED - The Powerful -	MR <sup>®</sup> 431 UV Power LED - Low cost version -
Art. No. UV lamp:	98 WAN L	42 L	431 L
Art. No. UV lamp incl. case:	98 WANK	42K	431K
Risk class acc. to DGZfP/BGFE EM6:	2	2/3 (see UVA)	2
Working temperature:	10°C – 35 °C	10°C – 35 °C	10°C – 35 °C
Dimensions:	L = 180 mm, Ø = 110 mm	L = 160 mm, Ø = 105 mm	L = 160 mm, Ø = 105 mm
Weight:	app. 900g (without battery)	app. 800g	app. 800g
UV source:	3 x high performance LED	5 x high performance LED	3 x high performance LED
Wavelength, nom. max.:	365 nm ± 3 nm	365 nm ± 3 nm	365 nm ± 3 nm
Power supply:	110V AC-230V AC, 12V DC	110V AC-230V AC, 24 V DC	110V AC-230V AC 12 V DC
Battery:	Lithium Ion battery 7,4 V - 6,6 A/h	--	--
<u>Advice:</u> Battery will not be loaded during power supply operation!	Operating time min.: Step 0: app. 2-2,5 h Step 1: app. 8 h Step 2: app. 4 h		
Service life LEDs at proper handling:	Step 1+2: app. 10.000 h Step 0: app. 5.000 h	Step 1+2: app. 10.000 h Step 0: app. 5.000 h	Step 1+2: app. 10.000 h Step 0: app. 5.000 h
UVB:	0 W/m <sup>2</sup>	0 W/m <sup>2</sup>	0 W/m <sup>2</sup>
UVA (±10%*)	Step 1: Step 2: Step 0: 25 W/m <sup>2</sup> 50 W/m <sup>2</sup> 80 W/m <sup>2</sup>	Step 1: Step 2: Step 0: 25 W/m <sup>2</sup> 50 W/m <sup>2</sup> 140 W/m <sup>2</sup>	Step 1: Step 2: Step 0: 25 W/m <sup>2</sup> 50 W/m <sup>2</sup> 80 W/m <sup>2</sup>
White light portion	Step 1: Step 2: Step 0: < 5 lx < 5 lx < 5 lx	Step 1: Step 2: Step 0: < 5 lx < 20 lx < 20lx	Step 1: Step 2: Step 0: < 5 lx < 20 lx < 20 lx
White light LED*)	1 x high performance LED 9.000 lx	1 x high performance LED 9.000 lx	--
Housing protection class acc. DIN EN 60529:	IP 64 dust tight splash proof	IP 64 dust tight splash proof	IP 64 dust tight splash proof
Light cone*)	Ø > 20cm	Ø > 20 cm	Ø > 17 cm
Supply line:	cable length 5 m with safety plug	cable length 5 m with safety plug	cable length 5 m with safety plug
Delivery contents:	<ul style="list-style-type: none"> <li>▪ MR<sup>®</sup> 98 WAN Brilliant LED</li> <li>▪ Power supply</li> <li>▪ Connection cable</li> <li>▪ Charger for battery</li> <li>▪ User manual</li> </ul>	<ul style="list-style-type: none"> <li>▪ MR<sup>®</sup> 42 Super LED</li> <li>▪ Power supply</li> <li>▪ Connection cable</li> <li>▪ User manual</li> </ul>	<ul style="list-style-type: none"> <li>▪ MR<sup>®</sup> 431 UV-Power LED</li> <li>▪ Power supply</li> <li>▪ Connection cable</li> <li>▪ User manual</li> </ul>

\*) Values measured at 40 cm distance

