INTRODUCTION

The company MEGA-PHYSIK GmbH & Co. KG was founded in 1970 in Rastatt, Baden-Württemberg.

Since then MEGA-PHYSIK has been a synonym for development and innovation in the production of high-quality dental curing light units which are worldwide applied in the dentistry.

As a medium-sized, owner-operated company, the staff of MEGA-PHYSIK are at the customers’ disposal with competent and friendly advice.

In 1999 a further company for dental material was built in Radeberg, Saxony, and since then both, MEGA-PHYSIK dental curing light systems have been sold by our business partners and dental materials has been successfully used by dentists in more than 50 countries in the world.

The certification of the quality assurance system according to EN ISO 9001:2000 and DIN EN ISO 13485:2003 for the registration of the production of medical products, continuously guarantees the high-quality level of the products manufactured by MEGA-PHYSIK.
MEGA-PHYSIK curing light units

All halogen and LED curing light units of MEGA-PHYSIK are suited to the polymerisation of light curing dental materials. The spectrum of the emitted light is between 400 and 500 nm and corresponds to the long wave absorption spectrum of camphorquinon, which is used as photoinitiator in dental filling materials.

The dental curing light units are available in different types.

<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>CROMALUX 75 basic model, C, R</td>
<td>2</td>
</tr>
<tr>
<td>CROMALUX 75 E; E plus</td>
<td>3</td>
</tr>
<tr>
<td>MEGALUX soft-start, R</td>
<td>4</td>
</tr>
<tr>
<td>MEGALUX fast-cure, CROMATEST</td>
<td>5</td>
</tr>
<tr>
<td>Accessories and spare parts for</td>
<td>6</td>
</tr>
<tr>
<td>CROMALUX, MEGALUX</td>
<td></td>
</tr>
<tr>
<td>CROMALUX LED</td>
<td>8</td>
</tr>
<tr>
<td>MEGALIGHT ST; Mini</td>
<td>10</td>
</tr>
<tr>
<td>MEGAZID-dent disinfectant</td>
<td>11</td>
</tr>
</tbody>
</table>
CROMALUX is a halogen curing light unit for polymerisation of light curing dental material, which is characterised by high light intensity and reliability. Cromalux is available in 3 different types.

**CROMALUX 75**

Basic model
The CROMALUX 75 is light and compact with a weight of 2.300 g. The handpiece weighs only 220 g. It is easy to handle and still highly comfortable to use. Therefore the CROMALUX 75 is essential in every dental practise.

The polymerisation time, 20 s, 40 s or continuous operation, is adjusted by a keypad and started or ended by pressing the start/stop push button at the handpiece.

REF 7036.B01

**CROMALUX 75 C**

Basic model with integrated light measuring unit by LED, calibrated for MEGA-PHYSIK light tips.
For measuring the light tip must be placed flat on the optical sensor. The maximum measured value is indicated by 3 light-emitting diodes.

- LED green: The light intensity is stronger than 400 mw/cm²
- LED yellow: The light intensity is between 200 and 400 mw/cm²
- LED red: The light intensity is insufficient.

REF 7036.C01

**CROMALUX 75 R**

Basic model with integrated radiometer.
The light intensity is indicated digitally in mw/cm².

On the strength of the exact signal of the light intensity, the user decides whether the light intensity is adequate for the intended treatment or a longer exposure time might be necessary.

REF: 7036.R01

**Technical data**

- Mains voltage: 230V / 110V
- Power consumption: 105 W
- Spectrum: 400–500 nm (blue light)
- Light intensity: 650–800 mw/cm²
- Halogen bulb: 12V/75W spot-adjusted
- Polymerisation time: 20s / 40 s/ continuous
  acoustic signal every 10 s
CROMALUX economic

CROMALUX E

Halogen curing light unit for the polymerisation of light curing dental material.

Simple design, which is among others also used for adhesive technology in the field of jewellery- and acoustic branch.

By a powerful cooling fan continuous operation can be effected. An acoustic signal every 10 s shows the polymerisation time.

- Mains voltage: 230V / 110V
- Power consumption: 95 W
- Halogen bulb: 12V/75W spot-adjusted
- Spectrum: 400–500 nm (blue light)
- Polymerisation time: continuous operation, acoustic signal every 10 s

REF 7050.B01

CROMALUX E plus

Halogen curing light unit for the polymerisation of light curing dental materials.

Simple design, but equipped with a keypad for time selection.

- Main supply: 230V / 110V
- Power consumption: 95 W
- Halogen bulb: 12V/75W spot-adjusted
- Spectrum: 400–500 nm (blue light)
- Polymerisations time: 20s / 40 s/ continuous acoustic signal every 10 s

REF 7050.P01
MEGALUX soft start

Halogen curing light unit with a soft start mode for the polymerisation of light curing filling material. The filling material is carefully pre-polymerised by low light intensity in order to avoid stress in the dental material.

Mains voltage: 230V / 110V
Power consumption: 105 W
Halogen bulb: 12V/75W spot-adjusted
Spectrum: 400–500 nm (blue light)
Polymerisation time:
Soft start mode: 10 s (soft) + 30 s
Standard mode: 20 s / 40 s/ continuous acoustic signal every 10 s

REF 7044.S01

MEGALUX soft-start R

MEGALUX soft start but with a built-in radiometer for measuring the light intensity.

Mains voltage: 230V / 110V
Power consumption: 105 W
Halogen bulb: 12V/75W spot-adjusted
Spectrum: 400–500 nm (blue light)
Polymerisation time:
Soft start mode: 10 s (soft) + 30 s
Standard mode: 20 s / 40 s/continuous acoustic signal every 10 s
Measuring range: 100-1999 mw/cm²

REF 7044.R01
MEGALUX fast-cure

Halogen curing light unit with soft start mode, radiometer and a focussing light tip.

The use of the light tip FOCUS 160 guarantees a light intensity of approx. 1100 mw/cm², which is favourable for orthodontics.

The ortho function at 5 s intervals is useful for fixing brackets. The timer of 30 s is suitable for prophylaxis and bleaching.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mains voltage</td>
<td>230V / 110V</td>
</tr>
<tr>
<td>Power consumption</td>
<td>110 W</td>
</tr>
<tr>
<td>Halogen bulb</td>
<td>12V/75W spot-adjusted</td>
</tr>
<tr>
<td>Spectrum</td>
<td>400–500 nm (blue light)</td>
</tr>
<tr>
<td>Polymerisation time</td>
<td></td>
</tr>
<tr>
<td>Soft start-mode</td>
<td>10 s (soft) + 10 s</td>
</tr>
<tr>
<td>Fast cure mode</td>
<td>12 s</td>
</tr>
<tr>
<td>Bleaching mode</td>
<td>30 s</td>
</tr>
<tr>
<td>Ortho-mode</td>
<td>continuous, acoustic signal every 5 s</td>
</tr>
<tr>
<td>Light tip</td>
<td>FOCUS 160, 12.5/8mm</td>
</tr>
</tbody>
</table>

REF 7055.R01

CROMATEST

Visible curing light meter for MEGA-PHYSIK halogen curing light units.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement range</td>
<td>100-1999 mW/cm²</td>
</tr>
<tr>
<td>Capacity</td>
<td>0.2 W</td>
</tr>
<tr>
<td>Power supply</td>
<td>9V battery</td>
</tr>
</tbody>
</table>

REF 7041.01
Optional light tips

The light tips consist of a bundle with parallel glass fibres with an additional black melt-on glass coating. This prevents the highly intensive light from coming out sideways even if there are some defective glass fibres.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST08</td>
<td>Standard 8mm/60°</td>
<td>REF 7000.002.SB</td>
</tr>
<tr>
<td>UN10</td>
<td>Universal 10mm/60°</td>
<td>REF 7000.037.SB</td>
</tr>
<tr>
<td>OC11</td>
<td>Occlusal 11mm/60°</td>
<td>REF 7000.038.SB</td>
</tr>
<tr>
<td>F160</td>
<td>FOCUS 160, 12/8mm/60°/90mm</td>
<td>REF 7000.026.SB</td>
</tr>
<tr>
<td>FA12</td>
<td>Facial 12,5mm/0°/70mm</td>
<td>REF 7000.039.SB</td>
</tr>
<tr>
<td>LT83</td>
<td>Layer Technology 8/3mm/60°/90mm</td>
<td>REF 7000.044.SB</td>
</tr>
<tr>
<td>LT84</td>
<td>Layer Technology 8/4mm/90°/90mm</td>
<td>REF 7000.041.SB</td>
</tr>
</tbody>
</table>
Eye protection

Eye protection shield UNIVERSAL
for light tips 8mm–11mm
REF 7000.027.00

Eye protection shield straight
REF 7000.016.00

Eye protection shield curved
REF 7000.017.00

Safety goggles
REF 7000.018.00

Spare bulb

Halogen bulb Mega-Physik 12V/75 Watt
spot-adjusted
REF 7000.001.MP
CROMALUX LED is a powerful photopolymerisation lamp using the most advanced LED technology and is designed to cure all camphorquinon-based dental restorative materials curing in the light wavelength range of 440-480 nm. In the soft start mode the light energy is rising starting from 200 mw/cm² to full power within 5 s, reducing stress in the cured material. The light can be activated or deactivated at any time by means of the start button at the handpiece. CROMALUX LED is available in 3 types.

**Equipment**

- High-power LED, using the most advanced LED technology for a fast and reliable polymerisation
- Soft start mode reducing stress in the cured material
- Cordless light-weight handpiece in ergonomic design
- High-efficient heat-absorbing block without fan enables noiseless operation up to some minutes without overload
- Closed, impermeable handpiece with detachable light tip allows easy and reliable disinfection
- Built-in high power, long-life lithium-ion accu (no memory effect)
- Radiometer integrated in the charging base, associated with a couple of LED indicators allows the operator to check the light power density accurately
### CROMALUX LED 800
Light intensity: up to 850 mw/cm²  
Operation mode: **Soft start** within the first 5 s, followed by full power  
Timer: 60 s, acoustic signal every 10 s  
REF 7037.A01

### CROMALUX LED 1100
Light intensity: up to 1200 mW/cm²  
Operation mode: **Soft start** in the first 5 s, followed by full power. To activate the light just press the start button temporarily (shorter than 1 s)  
**Fast cure** starts with full power. To activate the light just press the start button for more than 1 s  
Timer: 20 s, acoustic signal every 5 s  
REF 7037.B01

### CROMALUX LED ortho
Light intensity: up to 1700 mw/cm²  
Operation mode: **Fast cure** starts with full power  
Timer: 60 s, acoustic signal every 5 s  
REF 7037.C01

### Technical data
- **Mains voltage:** 100-240V, 50-60 Hz
- **Number of curing cycles with charged batterie:** 300 x 10 s
- **Charging time:** 2 h

### Scope of delivery:
- Power pack with cable
- Charging base
- Handpiece with storage batterie
- Light tip

### Spare parts:
- Light tip for CROMALUX LED 800: REF 7037.138
- Light tip for CROMALUX LED 1100: REF 7037.137
- Light tip for CROMALUX LED ortho: REF 7037.136
MEGALIGHT

Light curing unit for polymerisation of e.g. MEGATRAY light curing tray material, Megaseal UNIVERSAL sealing lacquer and other light curing materials in the range of UVA or blue light.
MEGALIGHT units are supplied with a timer for controlling the polymerisation time.

MEGALIGHT ST

MEGALIGHT ST is equipped with 4 fluorescent lamps. The unit can take on 4 models, which can be cured at the same time.

Mains voltage: 230 V/ 50 Hz
Power consumption: 60 W
Fluorescent lamps: 4 UVA lamps 320-450 nm
  4 blue light lamps 400-500 nm
Polymerisation time: 5 minutes (timer)

REF 7040.20 UVA
REF 7040.30 blue

MEGALIGHT Mini

MEGALIGHT Mini is equipped with 2 fluorescent lamps. The unit can take on 2 models, which can be cured at the same time.

Mains voltage: 230 V/ 50 Hz
Power consumption: 27 W
Fluorescent lamps: 2 UVA lamps 320-450 nm
  2 blue light lamps 400-500 nm
Polymerisation time: 5 minutes (timer)

REF 7040.00
REF 7040.10

Spare parts:

Fluorescent lamps 9W UVA REF 7040.70
Fluorescent lamps 9W blue REF 7040.71
Spare drawer for MEGALIGHT ST REF 7040.73
Spare drawer for MEGALIGHT Mini REF 7040.72
MEGAZID

MEGAZID-dent  Disinfectant Tabs

MEGAZID-dent. The troublefree disinfectant!

Advantages:

- Outstandingly effective against bacteria, viruses, yeasts and fungi. No known resistance
- Suitable for all surfaces. Absolutely non-corrosive to surfaces
- Simply dispensable. 1 tablet provides 0.5 litres of highly-effective disinfectant solution
- Space-saving. MEGAZID dent is offered as tabs
- Kind to the skin, non-cell damaging, non-carcinogenic
- Biodegradable
<table>
<thead>
<tr>
<th>Active ingredient</th>
<th>Effective against</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Viruses</td>
<td>Bacteria</td>
<td>Myco-bacteria</td>
<td>Funghi</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>envel.</td>
<td>non</td>
<td>Gram-</td>
<td>Gram-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>enveloped</td>
<td>positive</td>
<td>negative</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEGAZID-dent</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Tosylchloramid-Natrium</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acridin colouring</td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chloramphenicol</td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8-Chinolinsulphane</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Peracetic acid</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Phenols</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Glutaraldehyde</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Quats</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>4-chloro-m-cresol</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>4-hexylresorcin</td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Alcohol 70 %</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Hydrogen peroxide</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>DCIC</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Sodium hypochlorite</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
To the best of our knowledge and belief, all the information given above is according to the current state of research.

It is given, however, without liability in respect of existing third party industrial property rights.

In particular, no quality warranty in the legal sense is attached to it.

We reserve the right to make changes as part of scientific advances and further company development.

Reference to other companies’ products is not a recommendation and does not exclude the use of similar products.

The consumer is not excused from careful quality checking.

As we have no control over the correct use of product, we accept no warranty claims whatsoever or any liability arising from improper use of a product or raw material.

Information date: January 2000