radii plus

HIGH POWERED CORDLESS LED CURING LIGHT

KABELLOSES LICHTPOLYMERISATIONSGERÄT MIT LED-TECHNOLOGIE
LAMPE À PHOTOPOLYMERISER SANS FIL DE HAUTE PUISSANCE À TECHNOLOGIE LED
LAMPADA FOTOPOLIMERIZZATRICE AL LED SENZA FILI
UNIDAD LED FOTOCURADO INALAMBRICA DE ALTA POTENCIA
FOTOPOLIMERIZADOR LED SEM FIO DE ALTA ENERGIA
BEZPRZEWODOWA LAMPA POLIMERYZACYJNA LED O WYSOKIEJ MOCY
HIGH POWER DRAADLOOS LED POLYMERISATIELAMP
SLADDLÖS LJUSHÅRDNINGSLAMPA MED HÖG EFFEKT
STÆRK LEDNINGSFRI LED HÆRDELAMPE
ERITTÄIN TEHOKAS LANGATON LED-VALOKOVETTAJA
TRÄDLÖS HERDELAMPE MED HÖY EFFEKT
ΥΨΗΛΗΣ ΣΙΣΧΥΟΣ ΦΩΣ ΦΩΤΟΠΟΛΥΜΕΡΙΣΜΟΥ LED, ΧΩΡΙΣ ΚΑΛΩΔΙΟ
ΥΫΚΣΕΚ LED ΓΥÇΛÛ KABLOSUZ İŞINLI CİHAZ
VYSOCE VÝKONNÁ LED POLYMERAČNÍ LAMPA
LAMPA FOTOPOLIMERIZARE CU LED DE MARE PUTERE, FARĂ FIR
МОЩНА БЕЗЖИЧНА LED ПОЛИМЕРИЗИРАЩА ЛАМПА
VYSOKOVÝKONNÁ, BEZDRÔTOVÁ LED LAMPA
NAGY TELJESÍTMÉNYŰ VEZETÉKNÉLKŰLI POLIMERIZÁCIÓS LÁMPA
BEŽIČNA LED POLIMERIZACIONSKA LAMPA VISOKO SNAGE
VISOKOENERGETSKA BREŽŽIČNA LED POLIMERIZACIONSKA LUČKA

高出力コードレスLED重合ライト
高光强无线LED光固化机
Curing? Whitening? Transilluminating? The Radii Plus does it all. The amazing transformation takes place with a simple pull and click of the LED attachment. It’s unique, easy to upgrade design, provides unlimited potential making it the best investment you will ever make!
Basic features

High intensity - 1,500mW/cm²
The higher the intensity, the more the light penetrates to efficiently cure the restorative.

Simple to replace parts
Designed with snap-in or screw in connections, each part of the Radii Plus including the battery is easy to remove and replace.

Recharging
The Radii Plus does not need to be constantly recharged. It can be used for 1200 ten second cures with just one charge.

number of ten second cures
Radii Plus
0 300 600 900 1200
0 5 10 15 20 seconds
Steady Current
Pulsing
RAMP ON
RAMP OFF

Cordless
The Radii Plus is a cordless unit allowing complete freedom of movement and total control.

No noisy fan
Unlike other LED lights, the Radii Plus does not require a fan. It uses heat sink technology to reduce the amount of heat emission.

Infection control
Perfectly fitted disposable barrier sleeves prevent cross contamination.

Built in radiometer
The Radii Plus' built-in radiometer provides a simple test to ensure the functionality of the light.

Lightweight - 177g
The standard Radii Plus' ergonomic and lightweight design minimises user fatigue and maximises comfort.

Rotatable head
The head of the Radii Plus can be easily turned 360º to whatever position required. Upper quadrants are simple to access.

Slimline design
The small tip and slimline design of the Radii Plus allows users to have easy access to the posterior area. This is particularly beneficial when treating children.

Efficient energy use
The light emitted by the Radii Plus corresponds to the maximum absorbance of camphorquinone ensuring efficient curing of most light cured dental materials.

Depth of cure
Radii Plus’ up to 6mm depth of cure enables more complete curing of the restoration. This ensures interfacial adaptation and longevity of the restoration.

Curing

Pulse technology
Using a combination of pulse technology and steady current, the Radii Plus can achieve a higher light output without generating excess heat.

Ramp mode (soft start)*
You have a choice. The Radii Plus is initially set up without a ramp. When the ramp mode is selected, the Radii Plus’ light output power gradually increases during the first 5 seconds. This minimises polymerisation stress in the restoration. To switch between modes, hold down the on/off button until audio beeps are heard. A blue light comes on when the ramp mode is activated.

5 year warranty**
The Radii Plus' robust and reliable construction assures your investment is long lasting. The standard Radii Plus unit has a 5 year warranty. The battery section has a 2 year warranty.

Optional tacking tip
Autoclavable tacking tips (1mm and 2mm openings) are available for veneer procedures. Simply place over the lens cap.
In-office whitening

The single tooth and full arch bleaching LED attachments are designed for use as an adjunct to in-office tooth whitening systems such as Pola Office+.  

No UV emissions
Unlike many other bleaching lights on the market, the Radii Plus Bleaching LED attachments do not emit any harmful ultraviolet light.

Lightweight, cordless and compact
When the assembled unit is attached to the bleaching stand you can move it around and position where needed with ease. The entire unit can be safely put away in your cupboard.

Safe heat emissions
Some bleaching lights on the market emit high temperatures that may cause pulpal necrosis. The Bleach Arch LED attachment emits a safe temperature of 37°C ± 2°C and the single tooth bleaching attachment will heat to 45°C ± 2°C.

Unlimited number of uses
Whilst some other companies require the purchase of a special in-office whitening system for use with their light, the Radii Plus is suitable for use with most whitening products.

Transillumination

The diagnostic LED attachment lights up those hard to see clinical problems that traditional examination procedures can not. It employs a non-invasive technique and is a must have for all dental practices.

Early detection
The Radii Plus diagnostic LED attachment emits a safe white light which passes through tooth structure. A healthy tooth has an index of light transmission greater than that of decay or calculus. The diagnostic attachment is a great tool to assist you with early caries management.

Safe
The Radii Plus diagnostic LED attachment is ideal for patients who are not suitable for radiographs.

Adjustable brightness
Depending on your requirements, brightness of the light can be altered from high to low by holding down the on/off button.

Optional diagnostic adapter tip
Should a finer beam of light be required to illuminate sites where access is difficult, an adapter tip is also available. Simply replace the lens cap with this adapter.

Easily identify:
- Cracked tooth syndrome
- Depth of a subgingival fracture
- Subgingival calculus
- Interproximal decay
- Caries, where the radiographic image is questionable
- Caries removal within a new preparation
- Hidden root canal openings
- Non-vital teeth
- Leaking restorations
- Root tips in surgical extractions
## Summary of LED attachments available

<table>
<thead>
<tr>
<th>LED attachment type</th>
<th>Indications</th>
<th>Program</th>
<th>Wave length</th>
<th>Warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contra angle standard LED attachment</td>
<td>Light curing at contra angle similar to a hand piece</td>
<td>Run time: 1 minute</td>
<td>440–480nm</td>
<td>5 years</td>
</tr>
<tr>
<td>Right angle standard LED attachment</td>
<td>Light curing at right angle</td>
<td>Run time: 1 minute</td>
<td>440–480nm</td>
<td>5 years</td>
</tr>
<tr>
<td>Orthodontic LED attachment</td>
<td>Light curing specifically for orthodontic use</td>
<td>Run time: 5 minutes</td>
<td>440–480nm</td>
<td>5 years</td>
</tr>
<tr>
<td>Diagnostic LED attachment</td>
<td>Detection of cracks, fractures, calculus, decay, caries, root canal openings, non-vital teeth, leaking restorations and root tips</td>
<td>Run time: 5 minutes</td>
<td>400–750nm</td>
<td>5 years</td>
</tr>
<tr>
<td>Full arch bleaching LED attachment</td>
<td>In-office whitening of upper and lower arch and vital and non-vital whitening procedures</td>
<td>Run time: 8 minutes</td>
<td>440–480nm</td>
<td>2 years</td>
</tr>
<tr>
<td>Single tooth bleaching LED attachment</td>
<td>In-office whitening of one tooth at a time and vital and non-vital whitening procedures.</td>
<td>Run time: 30 minute</td>
<td>440–480nm</td>
<td>5 years</td>
</tr>
</tbody>
</table>
Radii Plus LED curing light 5600202
- 1 x handpiece
- 1 x charger
- 1 x multi-region plug pack
- 100 x barrier sleeves
- 3 x lens caps
- 5 x light shields

Full Arch Bleaching LED attachment kit 5600092
(for use on Radii Plus units with serial numbers above 3-34900)
- 1 Full Arch Bleaching LED attachment
- 2 x light shields
- 50 x barrier sleeves

Technical data for standard Radii Plus unit.
Handpiece (battery, control section and contra angle standard LED attachment)
- wavelength range:
  - LED curing light: 440 nm – 480 nm
  - diagnostic LED attachment: 460 nm
- peak wavelength range:
  - LED curing light: 460 nm
  - diagnostic LED attachment: 500 nm
- RAMP mode elapsed time to full intensity:
  - LED curing light: 5 seconds
  - diagnostic LED attachment: 10 seconds
- duration of continuous use:
  - NO RAMP mode: 60 seconds
  - RAMP mode: 65 seconds
- total continuous use with fully charged battery:
  - LED curing light: 3 hours 20 minutes
  - diagnostic LED attachment: 6 hours
- dimensions:
  - LED curing light: 22mm diameter x 243mm long
  - diagnostic LED attachment: 22mm diameter x 243mm long
- weight:
  - LED curing light: 177g / 6.2 ounces
  - diagnostic LED attachment: 177g / 6.2 ounces
- battery:
  - LED curing light: 7.4V Lithium Ion – 14Wh
  - diagnostic LED attachment: 5.5V Lithium Ion – 13Wh

Multi-region plug pack
- AC input: 100-240V – 1.0A, 50/60 Hz
- DC output: 12V = 1.5A, 15W MAX
- dimensions: 38mm high x 45mm wide x 70mm long
- weight: 104g / 3.65 ounces

Charger
- time to charge battery: 60 – 180 minutes
- operating temperature: 10°C - 40°C
- total height with handpiece inserted: 255mm
- dimensions: 70mm wide x 40mm high x 130mm long
- weight: 84g / 3 ounces

Accessories and replacement parts:
Radii plus replacement lens caps (25 pack) 5600054
Radii Plus barrier sleeves (1000 pack) 5600055
Radii Plus light shield (5 pack) 5600056
Radii Plus replacement battery pack 5600062
Radii Plus control section 5600261
Radii Plus charger and plug pack 5600065
Bleach arch stand 5600095
Bleach arch barrier sleeves (50 pack) 5600093
Bleach arch light shield (5 pack) 5600094
Diagnostic Adapter Tip 5600078
Tacking Tips set (1mm and 2mm openings) 5600079

Full Arch Bleaching LED attachment kit 5600092
(for use on Radii Plus units with serial numbers above 3-34900)
- Full Arch Bleaching LED attachment
- 2 x light shields
- 50 x barrier sleeves

Diagnostic LED Attachment 5600268
(for use on Radii Plus units with serial numbers above 3-21745)
- Orthodontic (Ortho) LED attachment 5600259
- Contra angle standard LED attachment 5600260
- Single tooth Bleaching LED attachment 5600258

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  - diagnostic LED attachment: 500 nm
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Diagnostic Adapter Tip 5600078
Tacking Tips set (1mm and 2mm openings) 5600079

LED Radiometer 5600028
The Radii Plus unit already comes with a built-in radiometer. A separate unit, the LED Radiometer is also available to provide an instant digital reading. The unit is specially calibrated for any LED curing light.

* Not applicable to orthodontic LED attachment
** Please refer to the chart for the warranty of optional LED attachments.

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