radii xpert
Professional LED Curing Light

Smarter design.
Optimal cure every time.

target assist
precision curing
collimated light
smart technology
for ease of use
ergonomically
well-balanced grip

www.sdi.com.au

Leaders in LED curing
Unique target assist for precision curing
Radii Xpert’s unique target assist technology enables you to confidently position the light and be confident of the application before curing. A light source must be held close and perpendicular to a restoration to avoid incomplete polymerisation. By achieving the positioning light and releasing once over the tooth, you can be sure that curing only begins when the light is in position and restorations will receive a complete cure. Ensure you are on target every time with Radii Xpert.

Ergonomically well-balanced grip
Radii Xpert has better performance due to the light intensity remaining consistent over clinically relevant distances. The consistent intensity ensures light will penetrate the underlying restoration with minimal drop off, giving you the confidence of a full cure to the depth of a restoration.

Optimally collimated beam
Radii Xpert has a the ideal choice for restorations of all sizes, including bulk fill restorations that require a deep cure. The collimated beam ensures light intensity is maintained on the restoration being cured. Achieve a predictable cure, every time with Radii Xpert.

Consistent beam profile
Restorations can be cured with the confidence of a uniform beam profile using Radii Xpert. The beam delivers an even energy distribution, with reduced hot and cold spot variation. The entire beam profile of a curing light is important to ensure restorations are cured evenly.

Enhanced heat management
Restorations can be cured safely with Radii Xpert. Heat sink technology is incorporated to reduce the amount of heat emission. Enhanced heat management prevents damage to pulp tissue that can be caused by excess heat. You can conveniently cure multiple restorations without the risk of overheating the unit. The absence of excess heat also helps to maintain the life of the LED.

Pulse technology
Radii Xpert uses a combination of pulse technology and steady current to further reduce heat emitted onto the tooth. With multiple pulses per second, light output is maintained on the restoration being cured, without the risk of overheating.

Interchangeable attachments
Radii Xpert offers versatility with the availability of full anti-backing, diagnostic and orthodontic attachments that snap in with ease.

Cures all composites
Radii Xpert will cure all commercially available composites without the need for a polywave light. The light intensity of SDI/camx™ over a 4-mm aperture covers a wavelength range between 400 nm - 480 nm. Radii Xpert achieves the right spectral distribution without the need for extended wavelength, giving you a reliable cure for all composites, including those with Camphorquinone and Benzoin.

Base with intensity indicator
Radii Xpert’s built-in intensity indicator allows light intensity to be monitored easily without the need to purchase an additional hand held meter to assess relative change in output. Routine evaluation of a curing light is important for optimal operation.

360˚ professional LED curing light
Radii Xpert has an advanced diffuse beam and light collector with 4-mm aperture. It delivers even energy distribution, with reduced hot and cold spot variation. The entire beam profile of a curing light is important to ensure restorations are cured evenly.

Unique features of Radii Xpert

- The consistent intensity ensures light will penetrate the underlying restoration with minimal drop off, giving you the confidence of a full cure to the depth of a restoration.
- Radii Xpert has a versatile and compact design that can be held in a pencil or pistol grip, minimising hand and arm fatigue.
- A smart technology for ease of use, including a multi-coloured status rings offer a visual representation when you need to change or when cures are in progress.
- A well-balanced slimline design and can be held in a pencil or pistol grip, minimising hand and arm fatigue.
- The beam delivers an even energy distribution, with reduced hot and cold spot variation. The entire beam profile of a curing light is important to ensure restorations are cured evenly.
- Radii Xpert gives you the ability to save your favourite setting and estimation and provides accuracy during a curing cycle.
- Enhanced heat management prevents damage to pulp tissue that can be caused by excess heat. The absence of excess heat also helps to maintain the life of the LED.
- Radii Xpert offers versatility with the availability of full anti-backing, diagnostic and orthodontic attachments that snap in with ease.
- Base with intensity indicator allows light intensity to be monitored easily without the need to purchase an additional hand held meter to assess relative change in output.
- Smart technology for ease of use, including a multi-coloured status rings offer a visual representation when you need to change or when cures are in progress.
- A well-balanced slimline design and can be held in a pencil or pistol grip, minimising hand and arm fatigue.
- The beam delivers an even energy distribution, with reduced hot and cold spot variation. The entire beam profile of a curing light is important to ensure restorations are cured evenly.
Key features

- Unique target assist for precision curing
- Optimally collimated beam
- Consistent light intensity
- Smart technology for ease of use
- Ergonomically well-balanced grip
- Cures all composites
- Consistent beam profile
- Enhanced heat management
- Base with intensity indicator

Rotatable head
Radii Xpert's 360-degree rotatable head enables restorations in all quadrants to be accessed with ease.

Interchangeable attachments
Radii Xpert offers versatility with the availability of full arch bleaching, diagnostic and orthodontic attachments.

Slimline design
Radii Xpert's slimline design enables easy access to the posterior region of the mouth. This is particularly beneficial when treating children.

Lightweight
Weighing 185 g, Radii Xpert is lightweight and minimises hand and arm fatigue.

Heat sink technology
Multiple restorations can be cured safely due to the heat absorption properties of heat sink. Heat sink technology directs heat away from the LED, without the need for a cooling fan.

Pulse technology
Radii Xpert can generate a high light output without excess heat by using a combination of pulse technology and steady current.

Recharging
Achieve 900 x 10 second cures with Radii Xpert before the need to recharge. This equates to a convenient 2-hour 30 minute runtime.

Easy to clean
Radii Xpert has smooth surfaces and comes with a perfectly fitted barrier sleeve to prevent cross-contamination.

Durable
Radii Xpert is constructed with high strength polymer for durability.

Cordless
Radii Xpert is a cordless unit allowing complete freedom of movement.
Technical data - Standard attachment

- **Wavelength**: 440 nm – 480 nm
- **Peak wavelength**: 460 nm
- **Light intensity**: 1500 mW/cm² (+5%, -15%)
- **Maximum duration of continuous use**: 20 seconds
- **Time to charge flat battery**: 3 - 5 hours
- **Time to charge battery (general use)**: 60 - 180 minutes
- **Battery**: 1 x 3.7 V 2600 mAh
- **Multi-region plug pack**: AC input: 100 - 240 V ~ 1.0 A, 50 - 60 Hz
  DC output: 12 V, 1.5 A & 15 W Max
- **Operating temperature**: 10°C - 40°C / 50°F – 104°F
- **Weight**: 185 g / 6.5 ounces
- **Total height with handpiece**: 290 mm

Radii Xpert LED curing light has a 3 - year warranty.
Battery has a 2 - year warranty.

*The irradiance as measured using a 4-mm diameter sensor that is centred.

LED attachments available

<table>
<thead>
<tr>
<th>LED attachment type</th>
<th>Indications</th>
<th>Program</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>Light curing at contra angle similar to a hand piece</td>
<td>Run time: 2, 10, 20 seconds as selected Beeps at completion</td>
<td>Blue light (440 nm - 480 nm)</td>
</tr>
<tr>
<td>Diagnostic</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 Low, medium or high intensity selections available Beeps at completion</td>
<td>White light</td>
</tr>
<tr>
<td>Orthodontic</td>
<td>Light curing specifically for orthodontic use</td>
<td>Run time: 5 minutes or 10 seconds as selected Beeps at completion</td>
<td>Blue light (440 nm - 480 nm)</td>
</tr>
<tr>
<td>Full arch bleaching</td>
<td>In-office whitening of upper and lower arch</td>
<td>Run time: 8, 10, 15 minutes as selected Beeps at half-way point for each selection and at completion</td>
<td>Blue light (440 nm - 480 nm)</td>
</tr>
</tbody>
</table>

Radii Xpert LED curing light 5600300
- 1 x Radii Xpert handpiece
- 1 x charger
- 1 x multi-region plug pack
- 5 x small light shields
- 1 x large light shield
- 3 x spare lens caps
- 100 x barrier sleeves

LED attachments:
- Radii Xpert standard LED attachment 5600301
- Radii Xpert full arch bleaching LED attachment 5600308
- 2 x light shields
- 50 x barrier sleeves
- Radii Xpert diagnostic LED attachment 5600306
- Radii Xpert orthodontic LED attachment 5600307

Accessories and replacement parts:
- Radii Xpert replacement lens caps (5 pack) 5600310
- Radii Xpert barrier sleeves (1000 pack) 5600309
- Radii Xpert small light shield (5 pack) 5600056
- Radii Xpert large light shield 5600089
- Radii Xpert replacement battery pack 5600305
- Radii Xpert charger + plug pack 5600304
- Bleach stand 5600095
- Full arch bleaching LED 5600093
- Attachment barrier sleeves (50 pack) 5600092
- Full arch bleaching LED attachment light shields (5 pack) 5600094
- Diagnostic adaptor tip 5600078
- Tacking tip set (1 mm and 2 mm openings) 5600079

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