Radii Xpert
SDI
dsi.com/au

CLINICAL EVALUATION

Key features: LED curing light • Interchangeable heads for a variety of indications

Description

Radii Xpert is a professional LED curing light with:
• Pulse technology to reduce heat.
• Interchangeable heads.
• Built-in intensity meter in the base.
• Target assist precision curing that enables you to position before curing.
• Smart technology that allows you to save your favorite settings.
• A collimated beam that is ideal for restorations of all sizes, including bulk-filled restorations.

Indications

Full Arch Bleach Attachment
Designed for acceleration of in-office tooth whitening materials such as Pola Office and Pola Office+

Diagnostic Attachment
Provides transillumination to assist in early detection and diagnosis of clinical problems.
The Radii Xpert Diagnostic LED attachment emits a safe white light that passes through the tooth structure to aid in diagnosis of cracked teeth, interproximal caries, calculus and more.

Orthodontic Attachment
Specifically designed for orthodontics the Radii Xpert Orthodontic LED attachment uses a collimated beam that ensures light intensity is maintained on the bonded tooth surface. The 5-minute option provides continuous light for fast and efficient bonding of brackets.

Unique Attributes
• This curing light is extremely versatile due to the interchangeable heads.
• Automatic programs load when the tip is changed.
• You can set your favorite curing times.

Evaluator’s Comments
"I liked the different attachments and all of the programable options. It was very versatile."
"Clear readout LED panel."
"Long handle allows for easier gripping, and access in certain areas."
"It’s a fantastic all-around design with great light output."
"The small head allowed for convenient maneuverability and was easy to rotate for any curing location."
"There are a variety of programs and you can set your favorites, which was a little confusing at first."
"I prefer a flat tip instead of a convex tip."
"Relocate on-off button or make the display window smaller for easier activation."

Compared to Competitive Products:

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Consultants who would:
60% Recommend to a colleague
10% Yes, instead of current product
30% Yes, in addition to current product
25% I might want to order this product for certain cases

Evaluation Summary:
Radii Xpert (SDI)

Some of the additional most liked comments:
- Good head size.
- The variety of features it comes with.
- Inter-changeable heads.
- Good weight (fairly heavy). Easy to read panel.
- Angle/ ease of placement/pressing button.
- The strength of the light.
- The design is visually pleasing.
- Lightweight and ergonomic.
- Easy access.
- Adjustable tip positioning, trans-illumination tip, and long duration cure time for bonding ortho attachments.
- The digital timer on the unit and the eye shield on the light.
- Different options available for bleaching, diagnostic and ortho tip.
- Ergonomic handle.
- The weight felt nice. The variety of tips is very neat, but I did not have many clinical uses for them in the dentistry I do.

Suggestions for improvement comments:
- Smaller handle.
- Make button more accessible. Make settings easier to figure out.
- More physically raised control buttons.
- Make thinner.
- Smaller size.
- More freely rotatable attachments.
- Make the buttons more prominent and different color to see easier.
- Improve the button control. Improve size (a bit long), Re-think the attachments and necessity.
- Flat tip, if possible
- Improve user manual and instructions on changing settings specifically.
- Flatten the light source, increase its diameter, and have simpler more intuitive controls.
- Make the light flat.
- Add the option for it to beep every 5 seconds (some people may like that it doesn’t beep - it’s quieter).
- Increase the button size.
- Decrease diameter of the unit.
- Relocate activation button forward and increase power or collimate the beam for better focus.
- Make lighter, have an easier position of button.

What brand(s) of curing light do you normally use?
- Beyes Dental Slimax-C (2)
- Bluephase
- Coltolux (3)
- Demi Kerr (5)
- Ivoclar
- Radii (2)
- Sapphire Plus Curing Light
- Ultradent VALO (9)

Some of the additional least liked comments:
- Large size.
- The curing button, I had to read the instructions carefully to change settings.
- The size.
- Buttons were hard to push.
- Difficult to see where the head was, difficulty pushing the button and I did not find a lot of use for the attachments.
- Tip design/radius of the glass tip.
- Difficult for me personally to hold and use in the mouth. Also, I found it difficult to change settings for curing.
- Cost compared to competitors.
- Design.
- The convex tip.
- Curved curing tip.
- No beeps until done. I like beeps every 5 seconds.
- Difficult to activate the light because the button is small.
- Overall diameter of the unit.
- I observed a patient experience significant heat sensitivity during curing. I can’t remember the last time I’ve had a similar situation with my office’s current curing light system.
- Head is bulky, unit is fairly heavy, coverage too diffuse and not focused, less power than VALO units, and activation button placed too far back which unbalances the unit and causes fatigue when curing multiple teeth.
- Too heavy and button seemed to be in an awkward position for my hand.
- Light tip thickness.
- The buttons. Placement felt weird and it didn’t beep. I was unsure for how long it was curing for.

Were there any clinical situations in which you felt the Radii Xpert stood out or was especially helpful?
- Changing out to the diagnostic attachment for transillumination.
- Composites and invisalign.
- When bonding brackets.
- Tough to reach curing spots – angle of handle helped!
- Evaluating for interproximal decay using the transillumination setting was very helpful.
- Posterior occlusal composites.
- Interproximal curing.
- Hard-to-reach posterior areas.
- Trans-illumination tip was pretty useful.
- Diagnostic tip.
- The variety of heads is the coolest part by far. It would be great for placing invisalign attachments all at once. Unfortunately, I did not have any cases at the time I had the light.
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Final comments on the Radii Xpert and/or feedback (Please skip if none)

- Nice light that needs a little work to be more competitive.
- While it might be great for specific applications, it is not great for general use.
- The orange plastic head was helpful to see what was lighting up, but felt cheap.
- Appreciate multifunctionality/different tips when needed (although we did not use them).
- Would love to incorporate in our office—expense is major drawback—especially because we keep curing lights in 4-5 operatories at all times.
- It's a fantastic all-around curing light, but it doesn’t offer much benefits over curing lights less than half it's price. To an extent, a curing light is a curing light. When I can get a “great” curing light for $500, is it really worth $1500 for an “exceptional” one? Arguable.
- There is nothing advantageous about this light over others on the market.
- I didn’t use any of the optional attachments FYI - didn’t have any cases for them during the evaluation period.
- Very good unit to use.
- Overall, I really enjoyed using the Radii Xpert; it was lightweight and maneuverable.
- Nice unit but not for our practice.
- Would not want as my everyday curing light. But ok as secondary light or for brackets or bleaching.
- The buttons were not as easy to see and to press. Too complicated for no reason.
- The main benefit I see is in the design for easier access to hard-to-reach areas. As I stated earlier, my assistants and I prefer that our current light beeps every 5 seconds so we can keep track of the time easier.
- I prefer the Kerr for the small spot cure tip.
- I’d want to use the Radii Xpert in cases where ergonomics and portability were important, but would also want to retain my option to use the plasma arc curing light at times due to shorter cure times.

On a scale of 1-5 (1 being poor and 5 being excellent), how would you rate the following?

- Effectiveness: 4.3
- Efficiency: 4.1
- Handle design: 3.4
- Curing light tip (standard tip) design: 3.8
- Ease of activation (button position): 3.0
- Ease of changing settings: 3.5
- Light tip size: 3.8
- Access to difficult areas: 3.6
- Manufacturer’s instructions for use: 4.3

Rate the Radii Xpert Overall: 3.7

Please rate the usefulness of the optional attachments in your practice:

<table>
<thead>
<tr>
<th>Attachment</th>
<th>Very Useful</th>
<th>Somewhat Useful</th>
<th>Not Useful</th>
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<tbody>
<tr>
<td>Full arch bleach attachment</td>
<td>5.26%</td>
<td>21.05%</td>
<td>73.68%</td>
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<tr>
<td>Diagnostic attachment</td>
<td>20.00%</td>
<td>70.00%</td>
<td>10.00%</td>
</tr>
<tr>
<td>Orthodontic attachment</td>
<td>16.67%</td>
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