

SDI | RADII XPERT

PROFESSIONAL LED CURING LIGHT

SMARTER DESIGN. OPTIMAL CURE EVERY TIME.

- LED colimado de polimerização profunda
- Ponteira giratória 360 graus
- Interface inteligente
- Potência máxima com bateria com baixa carga
- Suporte de recarga fácil



MULTIWAVE

Para fotoativação de espectro amplo



TARGET ASSIST
PRECISION CURING



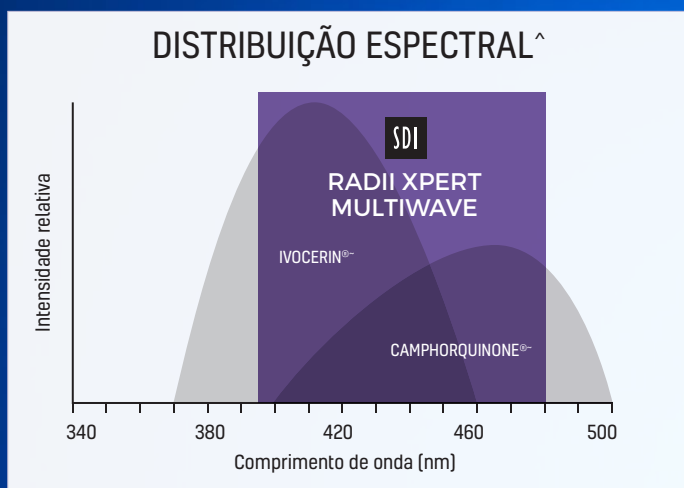
COLLIMATED
LIGHT



SMART TECHNOLOGY
FOR EASE OF USE



ERGONOMICALLY
WELL-BALANCED GRIP



~ Marcas registradas não da SDI Ltd.

[^] Timothy S. Menees et al, (2015), 'Depth of cure of bulk fill composites with monowave and polywave curing lights', American Journal of Dentistry, 28(6): 357-361



SMARTER DESIGN. OPTIMAL CURE EVERY TIME.



PONTA MULTIWAVE DE AMPLO ESPECTRO

O acessório Radii Xpert Multiwave LED fornece faixa de comprimento de onda de 395 – 480 nm, tornando-o adequado para polimerizar uma variedade de materiais restauradores. O comprimento de onda do fotopolimerizador Multiwave LED cobre o espectro de absorbância das resinas compostas contendo canforoquinona em combinação com fenil-propanodiona (PPD), óxido de acil fosfina (por exemplo, Lucirin TPO®) ou Ivocerin®.



OPTIMALLY COLLIMATED BEAM

Radii Xpert is 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.



SMART TECHNOLOGY FOR EASE OF USE

Smart technology improves the efficiency of your dental appointment. An LCD display with countdown timer eliminates estimation and provides accuracy during a curing cycle. Radii Xpert gives you the ability to save your favourite setting and the multi-coloured status rings offer a visual representation when you need to charge or when curing is in progress.



ERGONOMICALLY WELL-BALANCED GRIP

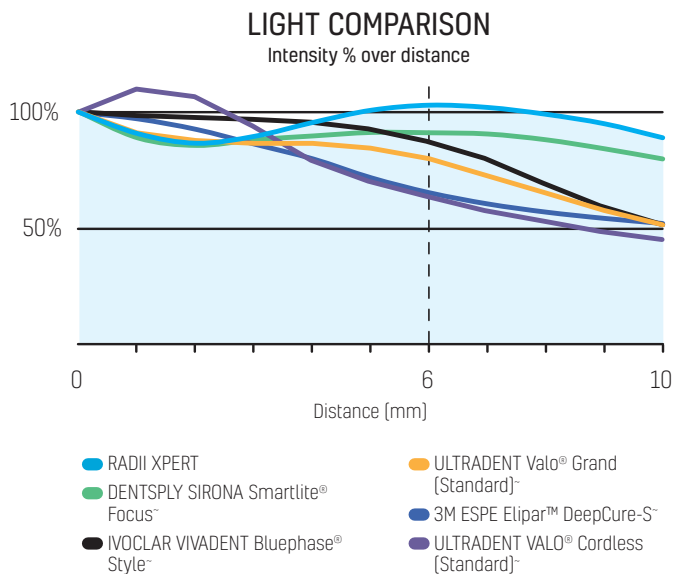
Radii Xpert's ergonomic design allows you to comfortably access all restoration sites. The 360-degree rotatable head enables restorations in all quadrants to be accessed easily. Radii Xpert has a well-balanced slimline design and can be held in a pencil or pistol grip, minimising hand and arm fatigue.



PROFESSIONAL LED CURING LIGHT

CONSISTENT LIGHT INTENSITY

Radii Xpert performs better as light intensity remains consistent across clinically relevant distances. This consistent intensity allows light to penetrate the restorations underlying layer with a small decrease in intensity, ensuring complete photoactivation in all restoration.



Independently tested by Tufts University School of Dental Medicine, Boston, USA, 2017
Results normalised to 100% at 0 mm
Tested on a BlueLight Analytics® Inc. MARC® light collector with 4-mm aperture
~ These are not registered trademarks of SDI Ltd

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.

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 heat³.

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.

TECNOLOGIA DE DISSIPADOR DE CALOR

Várias restaurações podem ser fotoativadas com segurança devido às propriedades de absorção do dissipador de calor. A tecnologia de dissipador de calor direciona o calor para longe do LED, sem a necessidade de ventilador de resfriamento..

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 standard full arch bleaching, diagnostic and orthodontic attachments that snap in with ease.

SLIMLINE DESIGN

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

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

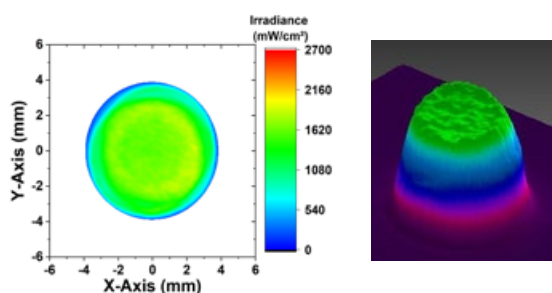
Radii Xpert is a cordless unit allowing complete freedom of movement.

RELATÓRIO TÉCNICO – RADII XPERT

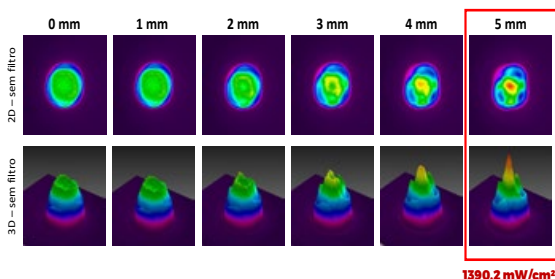
PERFIL DE FEIXE DE LUZ CONSISTENTE

A ponta ativa do Radii Xpert tem distribuição homogênea do perfil do feixe de luz. Esse recurso garante irradiação bem distribuída e uniforme por toda a região da restauração.

Isso é suficiente para ativar adequadamente resinas compostas e cimentos resinosos. O Radii Xpert é perfeito para cavidades profundas, pois a irradiação permanece alta mesmo a profundidade de 5 mm, fornecendo até 1.390 mW/cm².



DISTÂNCIA [MM]



Mesmo que a ponta do Radii Xpert seja movida até 5 mm da superfície, o dispositivo emite intensidade de luz adequada..

Prof. Carlos José Soares et al., Faculty of Dentistry, Federal University of Uberlândia 2023.

» Um fotopolimerizador LED é de vital importância para uso em seu consultório! Ela precisa ter boa colimação, irradiação, entre outros atributos. No Radii Xpert da SDI, você encontrará todos os atributos que uma boa fonte de luz LED precisa ter para facilitar sua prática diária «

Dr. Joshua Austin, DDS, MAGD. Economia Odontológica – Estados Unidos – novembro de 2020

» Seu aparelho fotopolimerizador é de vital importância para sua prática odontológica. Você precisa de várias coisas em um aparelho fotopolimerizador. O Radii Xpert da SDI tem todas essas coisas. Ele oferece funcionalidade e flexibilidade para o uso diário. «

Dr. Joshua Austin, DDS, MAGD. Economia Odontológica – Estados Unidos – novembro de 2020

» O amplo espectro de luz do Radii Xpert permite a fotoativação de materiais diversos como resinas compostas, adesivos, cimentos resinosos, entre outros que possuem diferentes fotoiniciadores. «

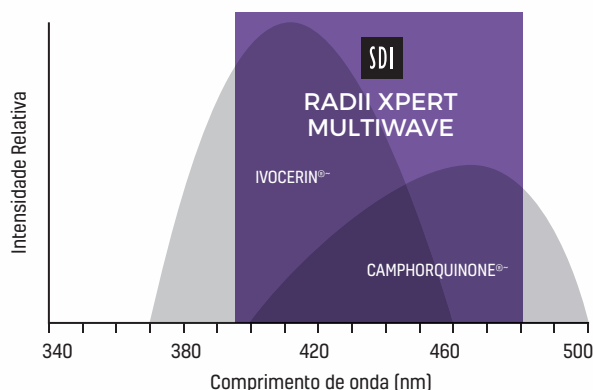
Prof. Carlos José Soares et al., Faculdade de Odontologia, Universidade Federal de Uberlândia 2023

ESPECTRO DE EMISSÃO

O Radii Xpert Multiwave fotoativa todos materiais resinosos disponíveis comercialmente. A intensidade de luz de pico de 1.390 mW/cm² em comprimento de onda entre 395 – 480 nm. O Radii Xpert Multiwave cobre o espectro de absorvância de materiais resinosos contendo canforquinona em combinação com fenilpropadiona (PPD), óxido de [bis]acil fosfina [por exemplo, Lucerin TPO® ~] ou Ivocerin®.

~ Marcas registradas da SDI Ltd.

DISTRIBUIÇÃO ESPECTRAL^



KEY FEATURES

360° ROTATABLE HEAD

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

185g LIGHT WEIGHT

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

2.5 HOUR RUNTIME

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



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

O Radii Xpert recebeu as classificações abaixo para recomendação de compra

Apresentação/ergonomia ★★★★★

Fácil de usar ★★★★★

Inovação ★★★★★

Eficiência ★★★★★

Recomendação de compra



Fonte: id Information-Dentaire n° 40 - 22 novembre 2023



ACESSÓRIOS DE LED DISPONÍVEIS

MULTESPECTRO

COMPRIMENTO DE ONDA: 395 - 480 nm

PICO DE COMPRIMENTO DE ONDA: 405 nm and 460 nm

LIGHT INTENSITY: 1400 mW/cm² (peak)

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 ~ 0.8A, 50 - 60 Hz DC output: 12V 1.66A, 20.0W MAX Dimensions: 34mm (H) x 41mm (W) x 62.5 (L) Weight: 104g

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.

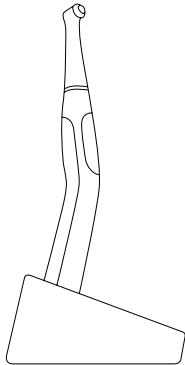
*The irradiance as measured using a 4-mm diameter sensor that is centred.



LED ATTACHMENTS

LED ATTACHMENT TYPE	INDICATIONS	PROGRAM	COLOUR
 Standard LED attachment ø 7mm	Light curing at contra angle similar to a hand piece	• Run time: 2, 10, 20 seconds as selected • Beeps at completion	Blue light (440 nm - 480 nm)
 Diagnostic LED attachment ø 7mm	Detection of cracks, fractures, calculus, decay, caries, root canal openings, non-vital teeth, leaking restorations and root tips	• Run time: 5 minutes • Low, medium or high intensity selections available • Beeps at completion	White light (440 nm - 480 nm)
 Orthodontic LED attachment ø 7mm	Light curing specifically for orthodontic use	• Run time: 5 minutes or 10 seconds as selected • Beeps at completion	Blue light (440 nm - 480 nm)
 Full arch bleaching LED attachment	• In-office whitening of upper and lower arch • Vital and non-vital whitening procedures	• Run time: 8, 10, 15 minutes as selected • Beeps at half-way point for each selection and at completion	Blue light (440 nm - 480 nm)

ORDER DETAILS



RADII XPERT LED CURING LIGHT

Radii Xpert LED curing light	5600300
- 1 x Acessório LED Multiwave	
- 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
- 1 x full arch bleaching LED attachment	
- 2 x light shields	
- 50 x barrier sleeves	
Radii Xpert diagnostic LED attachment	5600306
Radii Xpert orthodontic LED attachment	5600307
Acessório LED multiwave Radii Xpert	5600311

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 attachment barrier sleeves (50 pack)	5600093
Full arch bleaching LED attachment light shields (5 pack)	5600094
Diagnostic adapter tip	5600078
Tacking tip set (1 mm and 2 mm openings)	5600079



YOUR SMILE. OUR VISION.



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