

Bluephase® Style

The curing light



**Very small
cures all**

Efficient
Esthetics


**ivoclar
vivadent**
passion vision innovation

Reliable curing, short exposures

The innovative Bluephase® Style is designed for the intraoral polymerization of light-curing dental materials.

The Bluephase® curing lights are not only the best-selling LED polymerization lights in Europe¹, but they are also used in numerous clinical studies. Your advantages:

Reliable curing performance for direct and indirect restorations

Short curing times starting from 5 seconds due to high light intensities²

Suitable for every light-curing material due to polywave LED

Wide 10-mm light guide for time-saving single-exposure curing procedures

1,200 mW/cm²



See here for the features that lend uniqueness and high quality to every Bluephase:
www.ivoclarvivadent.com/bluephase_en





Simple
two-button operation

Contactless battery charging

Ergonomically designed to fit
comfortably in every hand

Europe's number ¹
3-year warranty³

¹ based on sales figures, according to KeyStone, 2017

² only in conjunction with the Bluephase Style 20i

³ warranty on battery: 1 year

Esthetics are impossible without proper light curing

The evolution of esthetic tooth-coloured composite resin fillings and indirect ceramic restorations would have been impossible without the development of suitable light-curing devices.

Polymerization is considered to be the most common source of error when processing light-curing materials. Inadequate polymerization can lead to suboptimal outcomes as well as postoperative sensitivity and discolouration.

The curing lights of the Bluephase family can mitigate these risks.



1

2

3

4

Efficient Esthetics

Products that are optimally coordinated for direct restorative procedures enhance the efficiency with which high-quality esthetic restorations can be achieved.



1 Isolate

Effective isolation with **OptraGate®**, cotton rolls and saliva ejector



2 Bond

Direct intraoral application of **Adhese® Universal** with the efficient VivaPen®



3 Restore

Direct
Tetric Evo-Line – One solution for all cavity classes

Indirect
Esthetic restorations made of **IPS e.max®**, optimally cemented with **Variolink® Esthetic**



Cure

Reliable and fast curing with the **Bluephase®** curing units

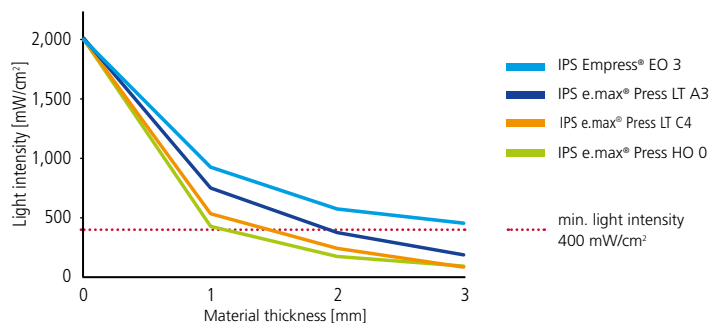
4

Reliable curing performance for direct and indirect restorations

Light intensity is a decisive factor for both the quality of esthetic restorations and the adequate polymerization of light-curing materials. This is particularly true for indirect restorations, where the amount of light reaching the luting composite can be significantly reduced, depending on the thickness, shade and opacity of the restorative material. This means that in some cases not enough light may be delivered to the luting composite to cure it. Generally, a light intensity of 1,000 mW/cm² (Bluephase Style) per 1 mm layer thickness is recommended.

Bluephase Style 20i is a high-performance light that combines maximum power with extremely short curing times. Providing a light intensity of 2,000 mW/cm², the light-curing unit is especially suitable for polymerizing luting composites in indirect restorations, alongside conventional curing applications in direct restorations. The high light intensity ensures that enough energy passes through the crown or inlay if the restoration is made of high-quality all-ceramic material, such as IPS e.max[®] or IPS Empress[®], and this without stressing the soft tissues or pulp.

Reduction of light intensity in ceramics



The light intensity varies considerably according to shade, opacity and material thickness.

Source: R&D, Ivoclar Vivadent AG, Schaan, 2016

Bluephase[®] Style 20i

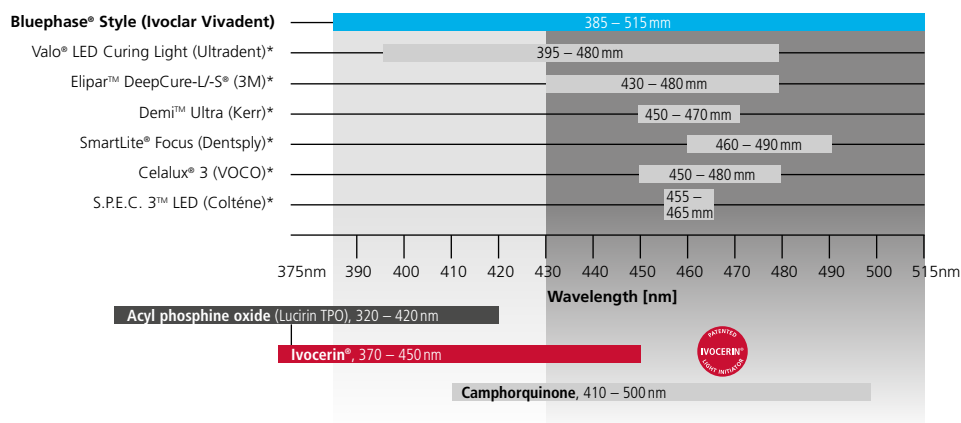
8 mm

Polywave LED

ensures maximum material compatibility

If and how well a dental material polymerizes depends, among other things, on the light emitted. In contrast to the LED lights of the second generation, the purpose-designed Polywave® LEDs cover the entire wavelength range between 385 and 515 nm. This means that the two light-curing units Bluephase Style and Bluephase Style 20i are suitable for curing all current dental photoinitiators and materials without limitations.

* not registered Trademarks of Ivoclar Vivadent AG. Source: Wavelength range acc. to manufacturer's indications. Status August 2018.



// This is essential in case of composites from the range of Bleach shades, which contain a higher amount of acyl phosphine oxide. This photo initiator cures rapidly when exposed to violet light. Polywave LEDs emit light in this colour and thus allow for curing reliability and long-lasting, esthetic results with composites of the Bleach shade range. In addition, polywave LEDs are superior to second-generation monowave LEDs. //



Dr Gordon J. Christensen
Dentist, USA

Short curing times starting from 5 seconds

Effective energy transmission, combined with a light intensity of 2,000 mW/cm², are the features of the Bluephase Style 20i that enable users to use extremely short curing times of only 5 seconds. Providing a light intensity of 1,200 mW/cm², the Bluephase Style light-curing unit facilitates similarly short curing times of only 10 seconds. In this way, these light-curing units support time-efficient and therefore economically effective work routines.

All composite versions of the Tetric Evo and IPS Empress Direct lines are designed to require the same exposure times. This applies equally to all shades and degrees of translucency.

PROGRAM LIGHT INTENSITY	HIGH POWER 1,200 mW/cm ² ± 10%	TURBO 2,000 mW/cm ² ± 10%
IPS Empress Direct Tetric Evo Line	10 seconds	5 seconds
Adhese Universal	10 seconds	—

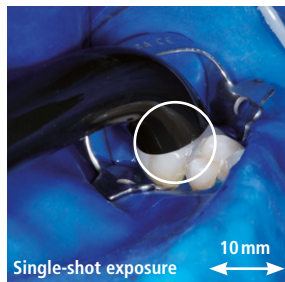
Optimum curing power even over a distance

Special optical technology enables the intensive light to penetrate deep into the material to be cured. This ensures that exceptionally high light intensities are available in critical situations. A reliable cure can be achieved even when the material is illuminated from a long distance, for instance in proximal boxes. This means that the exposure time of the Bluephase Style only needs to be doubled if the distance is 9 mm or longer.

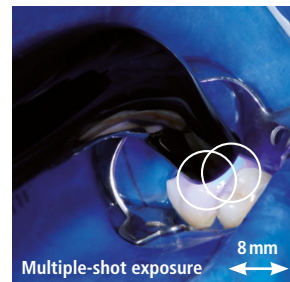


Wide 10-mm light guide for time-saving single- exposure curing procedures

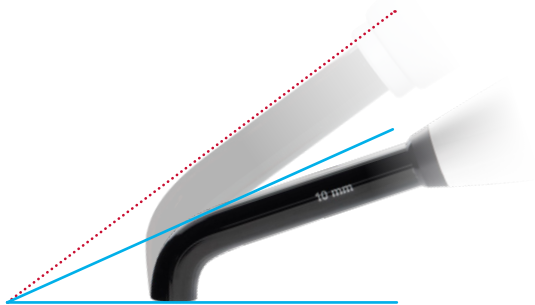
A wide 10-mm light guide enhances the curing efficiency of the Bluephase Style. Large areas are completely illuminated thanks to the large diameter of the guide tip. Large restorations, e.g. MOD fillings, can be cured in one shot; time consuming multiple exposures are no longer required.



Bluephase® Style



Unit with 8-mm light guide



Removable and autoclavable, the light guide clearly stands out from that of conventional curing lights. The light guide is shortened at the tip and can be freely rotated by 360 degrees, enabling access to all tooth surfaces. The mouth does not have to be opened extremely wide. This allows for more comfortable treatment, especially in children.

Always ready to use – thanks to Click & Cure

Cordless operation provides maximum mobility in the dental practice. The proven Click & Cure function enables you to avoid irritating waiting times if the battery has run out. With just one click you can connect the handpiece to the power cord of the charging base.



This is how it works: Turn around charging base, remove power cord, attach to handpiece, resume work as usual.



Delivery forms

Technical data

Technical data

	Bluephase® Style	Bluephase® Style 20i
Light intensity	1,200 mW/cm² ±10 %	2,000 mW/cm² ±10 %
Every hand (ergonomic design)	✓	✓
Every material (wavelength range)	✓ (385–515 nm)	✓ (385–515 nm)
Every indication (continuous operation for at least 10 min)	✓	✓ (HIGH POWER)
Every time (Click & Cure: optional mains operation)	✓	✓
Curing modes HIGH POWER TURBO	1,200 mW/cm² –	1,200 mW/cm² 2,000 mW/cm²
Curing time for selected composites 2 mm Tetric EvoCeram / IPS Empress Direct 4 mm Tetric Evo Ceram Bulk Fill / Tetric EvoFlow Bulk Fill	10 s 10 s	5 s 5 s
Power supply	Contactless charging via lithium-polymer battery, capacity: approx. 20 min; charging time: approx. 2 h	
Weight of handpiece	120 g (including battery and light guide)	
Dimensions of handpiece (without light guide)	L= 180 mm, W= 30 mm, H= 30 mm	
Weight of charging base	195 g	
Warranty	3 years (battery: 1 year)	

Delivery forms / accessories

	Bluephase® Style	Bluephase® Style 20i
Complete unit 100 – 240 V Handpiece, battery, light guide, charging base, power cord and power pack, accessories, Operating Instructions	635153 grey 642513 blue 642514 pink 682460 green	682109
Handpiece Handpiece, battery, light guide	637916 grey 643296 blue 643307 pink 682462 green	682110
Light guide	636240 10 mm, black	682151 10 > 8 mm, black
6 > 2-mm Pin-Point light guide	636241	
Anti-glare cone	551756	
Anti-glare shield	592496	
Protective sleeves, 1 x 50 pieces	636239	



Delivery forms

Product

Bluephase Meter II

667124

Measuring range

Bluephase Meter II

Wavelength range	380 – 550 nm
Light intensity	300 – 12,000 mW/cm ²
Circular light guides	Ø 6 – 12 mm, value measured in mW/cm ² & mW
LED attached to the front	Ø 5 – 13 mm, value measured in mW
Measuring accuracy	± 10 % (compared with integrating sphere)

Technical data

Bluephase Meter II

Operating voltage	4.5 VDC
Power supply (batteries incl.)	3 x LR6 AA 1.5 VDC
Warranty	3 years

Light intensity can be monitored



Generally, optical devices such as curing lights are susceptible to contamination and damage of all kinds. In order to ensure an adequate cure at all times at the shortest possible curing times, it is recommended to regularly check the performance of the curing light in use. The innovative Bluephase Meter II radiometer is designed to measure the light intensity of all types of light-curing devices (halogen, plasma, LED, etc.) and provides exceptionally accurate readings.



Click here for the video:

www.ivoclarvivadent.com/bluephase-meter-2



