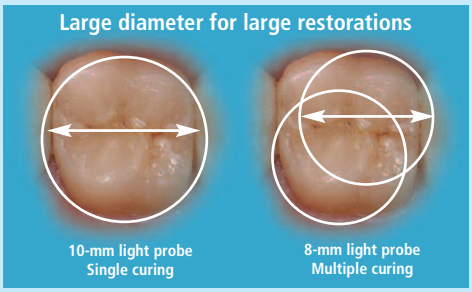
bluephase® C8 – new
on an economical mission

As a mains-operated LED curing light with a light intensity of **800 mW/cm²**, **bluephase C8** allows time-saving, short curing times. Due to the low purchase costs, bluephase provides you with excellent value for money.

The rotating 10-mm light probe allows for enhanced accessibility to all restored areas.

The large diameter ensures that even large cavities are completely irradiated with light. Time-consuming multiple irradiations of MOD restorations are a thing of the past. Due to the light-scattering characteristics of the **parallel-walled 10-mm light probe**, even deep proximal boxes can easily be cured.

Three easy-to-use programs – High Power for rapid curing, Low Power for curing areas near the pulp and Soft Start for stress-reduced polymerization.

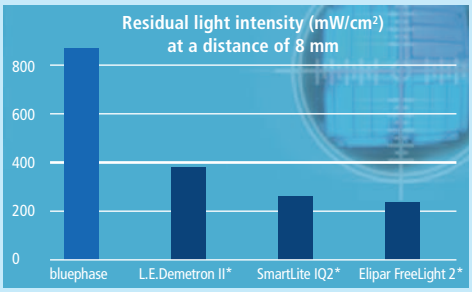


Large emission window – the broad 10-mm light probe allows MOD fillings to be irradiated only once, saving valuable time.

bluephase® –
on a proven mission

The battery-operated **bluephase** featuring a light intensity of **1,200 mW/cm²**, three proven programs and a rotatable light probe with a diameter of 10 mm is the classic among the bluephase products. Awards from **renowned institutions** are a testament to the success and the high quality standard. The high light intensity enables bluephase to cure deep areas while offering the shortest curing times possible.

Ivoclar Vivadent provides the best prerequisites for a durable aesthetic composite restoration by offering optimally coordinated products and outstanding precision in terms of light intensity. This is also supported by a field study conducted at the Johannes Gutenberg University.



Source: R. Price, Dalhouisie University Halifax, 2007
* Not registered trademarks of Ivoclar Vivadent AG.

The parallel-walled 10-mm light probe offers an exceptionally high intensity even in critical situations.

Field test on light intensity (mW/cm²)

	Value indicated by manufacturer	Mean value measured	Curing lights showing an intensity of <70% of the value indicated by the manufacturer
bluephase (Vorgängermodell)	1,100 (± 10 %)	1,066	0 %
L.E.Demetron I*	1,000	699	67 %
Translux Power Blue*	1,000	513	100 %
Elipar FreeLight 2*	1,000	602	58 %

Source: C.-P. Ernst, Johannes Gutenberg Universität Mainz, 2006 (excerpt)
* Not registered trademarks of Ivoclar Vivadent AG.

In this field study, the light output of 660 curing lights that are used in dental practices was tested. A particular feature of the test was that the light intensity was measured using the integrating sphere, which determines the absolute light intensity with high precision.

2011 for DENTAL ADVISOR Top Light-Curing Unit

2010 for DENTAL ADVISOR Top Light-Curing Unit

2009 for DENTAL ADVISOR Top Light-curing Unit

Dental PRODUCT SHOPPER BEST PRODUCT 2008

reddot design award
honourable mention 2008

bluephase® 20i – new
on a maximum mission

The **battery-operated bluephase 20i** combines the maximum light intensity of **2,000 mW/cm² in the turbo program** with extremely short curing times of no more than **5 seconds** for light and dark composites while being gentle to the pulp and the soft tissue.

The full capacity of bluephase 20i is particularly useful when consistent and maximum performance is required, for instance when all-ceramic restorations are placed or orthodontic brackets are bonded. Due to the polymerization of every aspect for 5 seconds each and the integrated fan for continuous cooling, adhesively cemented IPS Empress® and IPS e.max® restorations are polymerized in no time.

Four easy-to-use programs – Turbo for maximum performance, High Power for rapid curing, Low Power for curing areas near the pulp and Soft Start for stress-reduced polymerization.

The high light intensity allows polymerization in the shortest possible time in every clinical situation.

The dental experts agree

Dr Andreas Kurbad
Germany

«I expect a polymerization light to fulfil the following requirements:
- *reliable and constant light intensity*
- *short curing times*
- *sufficient battery capacity and the corresponding cooling system.*

bluephase combines all these positive features in one product.»

Prof Dr Claus-Peter Ernst
Germany

«So far, only bluephase offers a light probe with a large diameter of 10 mm.

The best clinical results are achieved with this light, as the surfaces to be cured are generally larger than 7 mm in diameter. The number of overlapping curing cycles is thus considerably reduced.»

Ulf Krueger-Janson
Germany

«It's great to use an LED unit which offers me a choice between various programs and a reliable light intensity of 1,200 ± 10% mW/cm².

Reliability is particularly important for all-ceramic restorations.

In addition, the controlled polymerization of modern composites is also ensured.»

Dr Gary Unterbrink
Liechtenstein

«The original bluephase offers consistent performance. It is cordless, programmable and powerful. After several years of heavy use and a thousand disinfections, it still looks good.

The new bluephase fills the last small gap with its different LEDs for all photoinitiators. Absolutely recommendable.»

Dr Anja Wenger
Switzerland

«The bluephase combines elegance with performance: It's very easy to use, cordless and virtually noiseless.

In the five years I have been using the bluephase I have never encountered any limitations in the polymerization of any direct or indirect restorations.

A very well-conceived piece of equipment.»

bluephase® **meter –** Licence to measure intensity

Innovative and unique – The innovative bluephase meter with a unique measuring principle is used to check the light intensity of LED curing lights with a circular light emission window.

Intelligent light sensor – Compared to conventional radiometers, the radiating surface is taken into account. Therefore, it is possible to accurately **determine the actually available light intensity for the first time**. The intelligent line sensor determines both the emitted power and the diameter of the light emission window. Based on these data, an integrated micro-processor then precisely calculates the available light intensity.

bluephase® –
Technical data at a glance

Technical data

	bluephase® C8 (new)	bluephase®	bluephase® 20i (new)	bluephase® meter
	800 mW/cm² ±10%	1,200 mW/cm² ±10%	2,000 mW/cm² - 2,200 mW/cm² LED Class 2	300 - 2,500 mW/cm² ±20%
Every material (wavelength range)	✓ 385 - 515 nm	✓ 385 - 515 nm	✓ 385 - 515 nm	✓ 385 - 515 nm
Every indication (continuous operation for at least 10 min)	✓	✓	✓	Measuring the light intensity of LED curing lights
Every time Click&Cure (optional mains operation)	✓ (mains operation)	✓	✓	
Curing time for composites	20 sec	15 sec	10 sec	
Curing time for Tetric EvoCeram/IPS Empress Direct	15 sec	10 sec	5 sec	
Curing programs				
TURBO	–	–	2,000 mW/cm²	
HIGH Power	800 mW/cm²	1,200 mW/cm²	1,200 mW/cm²	
LOW Power	650 mW/cm²	650 mW/cm²	650 mW/cm²	
SOFT Start	650 / 800 mW/cm²	650 / 1,200 mW/cm²	650 / 1,200 mW/cm²	
Light probe	10 mm black	10 mm black	10>8 mm black	
Power supply	Mains operation (upgrade to battery operation possible)	Lithium-polymer battery capacity: approx. 60 min/ charging time: approx. 2h	Lithium-polymer battery capacity: approx. 45 min/ charging time: approx. 2h	3 x LR6 AA 1,5 VDC
Display	OLED colour display	OLED colour display	OLED colour display	Digital LCD display
Warranty	3 years	3 years (battery 1 year)	3 years (battery 1 year)	3 years

bluephase® –
Delivery forms and accessories at a glance

Accessories / delivery forms		new bluephase® C8	bluephase®	new bluephase® 20i
100 - 240V		613 736	607 920	613 735
100 - 240V & bluephase meter		613 751	607 921	613 752
bluephase meter	607 922	■	■	■
10-mm light probe, black	608 537	■	■	–
10>8 mm light probe, black	627 389	–	–	■
6>2 mm (Pin-Point), black	608 538	✓	✓	✓
Protective sleeves	608 554	✓	■	■
Anti-glare cone	551 756	■	■	■
Anti-glare shield	592 496	✓	✓	■
Battery		–	608 535	627 300
Handpiece		–	608 532 (handpiece, battery, light probe 10 mm)	613 753 (handpiece, battery, light probe 10>8 mm)

■ Included in delivery form ✓ Available as accessory

Every material, every indication and every time –
Only this unique combination gives you the licence to cure.

This products form part of our „Composites“ and „Implant Esthetics“ fields of competence. All the products of these fields are optimally co-ordinated with each other.

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ivoclar vivadent®
passion vision innovation

bluephase®

Licence to cure

LED for every use

bluephase® C8
800 mW/cm²

bluephase®
1,200 mW/cm²

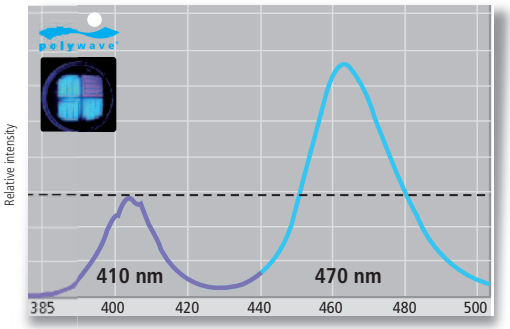
bluephase® 20i
2,000 mW/cm²

ivoclar vivadent®
passion vision innovation

bluephase® –
with the licence to cure

With its specially developed **polywave® LED**, the 2nd generation of the bluephase family sets new standards in the dental practice.

In contrast to conventional LED devices, the new polywave LED achieves an optimal broadband range from 385 to 515 nm, which is similar to the spectrum of halogen lights that served as its model. The new polywave LED light is therefore suitable for all photoinitiators.



Every material due to polywave® LED

Due to the two different LEDs that are used – one with approx. 410 nm and the other approx. 470 nm dominant wavelength – bluephase is suitable for all light-curing materials.

Every indication due to continuous cooling

As opposed to annoying interruptions and irritating waiting times, the invisible and virtually noiseless fan of the bluephase light allows continuous operation without any clinical limitations – even extensive indirect restorations can be placed without interruptions.

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

Every time due to Click & Cure

The proven **Click & Cure** function enables users to avoid irritating waiting times if the battery has run out. The handpiece can be connected to the power cord of the charging base with just one click.