

An extraordinary family of curing lights.



Step up to a new class of curing lights
with the bluephase G2 and bluephase 20i

bluephase[®]
LED CURING LIGHTS



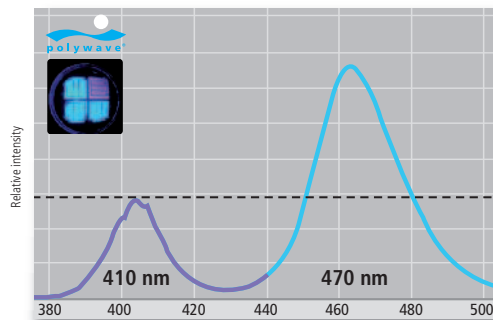
DARBY DENTAL SUPPLY, LLC

ivoclar
vivadent[®]
passion vision innovation

bluephase[®] - an LED for every use

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

In contrast to conventional LED devices, the new polywave LED achieves an optimal broadband range from 380 to 515 nm, which is similar to the spectrum of halogen lights that served as the benchmark. The new polywave LED light is therefore suitable for all types of 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 dental materials.



Every indication due to continuous cooling

The internal fan allows for continuous operation without any clinical limitations – bluephase allows for the placement of multiple indirect restorations without interruptions.



Simply remove power cord from the base.



Attach to handpiece and continue working.

Every time due to Click & Cure[®]

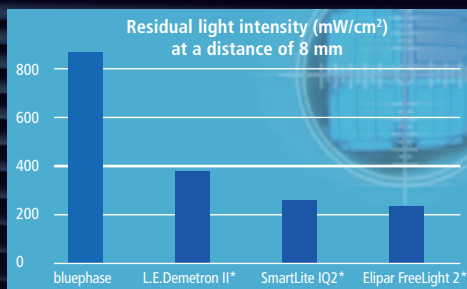
The proven **Click & Cure** function enables users to avoid irritating waiting times in the event the state-of-the-art lithium-polymer battery is depleted. The handpiece can be connected to the power cord of the charging base with just one click.

bluephase® G2

extraordinary reliability

The battery-operated **bluephase G2** featuring a light intensity of **1,200 mW/cm²**, three proven programs and a rotatable light probe with a constant diameter of 10 mm represents the new bluephase market standard. Awards from **renowned institutions** are a testament to success and its perfected quality. The high light intensity and the design specific light collimation enables bluephase to cure deep areas while offering the shortest curing times possible.

Ivoclar Vivadent provides the best prerequisites for a durable esthetic composite restoration by offering optimally coordinated products and outstanding precision in terms of light intensity. This is also supported by a field study conducted by the American Dental Association (ADA).



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

Field test on light intensity (mW/cm²)

	Value indicated by manufacturer	Mean value measured
bluephase**	1,100 (± 10 %)	1,076
L.E. Demetron II*	1,300	1,010
Coltolux LED*	1,400	609
Smartlite IQ*	900	544
FlashLite 1401*	1,400	439

Source: ADA, American Dental Association, Professional Product Review, Vol. 1 Issue 2, autumn 2006 * Not registered trademarks of Ivoclar Vivadent AG.
 ** Original bluephase (not G2).

Light intensity of production curing lights was measured against manufacturer's specifications. Ivoclar Vivadent uses only high grade components and ensures a very narrow tolerance band through rigorous quality inspections of components and finished products.



red dot design award
 honourable mention 2008



new

bluephase® 20i

extraordinary power

The **battery-operated bluephase 20i** combines the maximum light intensity of **2,000 mW/cm² in the Turbo program** with an extremely short curing times of **5 seconds** for light and dark composites while being gentle to the pulp and the soft tissue. Utilizing polywave broadband range output for curing of all common materials with confidence.

The full capacity of bluephase 20i is particularly useful when consistent and maximum performance is required, for instance when indirect all-ceramic restorations are placed or orthodontic brackets are bonded. Due to the high efficiency, high output 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.

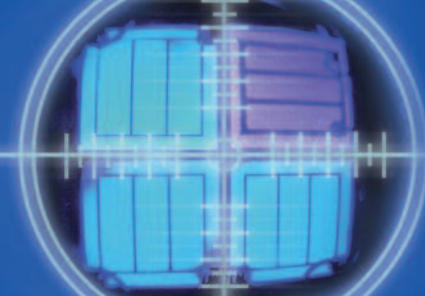
2.000 mW/cm²

Short curing times of just 5 seconds









With broadband range for curing of all common materials with confidence.



bluephase® – Technical data



new

	bluephase® G2 1,200 mW/cm ² +/-10%	bluephase® 20i 2,000 - 2,200 mW/cm ² LED Class 2	bluephase® meter 300 - 2,500 mW/cm ² +/- 20%
Every material (wavelength range)	✓ 380 - 515 nm	✓ 380 - 515 nm	✓ 380 - 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)	✓	✓	
Maximum curing time for composites	15 sec	10 sec	
Maximum curing time for Ivoclar Vivadent composites	10 sec	5 sec	
Curing programs			
TURBO  	—	2,000 mW/cm ²	
HIGH Power  	1,200 mW/cm ²	1,200 mW/cm ²	
LOW Power  	650 mW/cm ²	650 mW/cm ²	
SOFT Start  	650 / 1,200 mW/cm ²	650 / 1,200 mW/cm ²	
Light probe	10 mm black	10>8 mm black	
Power supply	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 color display	OLED color display	Digital LCD display
Warranty	3 years (battery 1 year)	3 years (battery 1 year)	3 years

Technical data

bluephase® – Delivery forms and accessories



9534680 (607 920BU) bluephase® G2 kit

- 1 - handpiece
- 1 - 10mm light probe
- 1 - battery
- 1 - charging base
- 1 - power supply
- 50 - protective sleeves
- 3 - Anti-glare cones

9534682 (607 921BU) bluephase® G2 kit with power meter

- 1 - bluephase® G2 kit
- 1 - bluephase power meter

bluephase® G2 accessories

- * (607 922) bluephase power meter
- 9534698 (608 532) Handpiece (with battery and 10mm light probe)
- 9534686 (608 535) Battery
- 9534694 (608 537) Light probe 10mm
- * (608 538) Light probe 6/2 mm Pin-Point
- 9537688 (608 554) Protective sleeves (5 x 50 pieces)
- 9534690 (551 756) Anti-glare cone (3 pieces)
- 9534692 (592 496) Anti-glare shield



9534636 (613 735BU) bluephase® 20i kit

- 1 - handpiece
- 1 - 10/8 mm light probe
- 1 - battery
- 1 - charging base
- 1 - power supply
- 50 - protective sleeves
- 1 - Anti-glare shield

* (613 752BU) bluephase® 20i kit with power meter

- 1 - bluephase® 20i kit
- 1 - bluephase power meter

bluephase® 20i accessories

- * (607 922) bluephase power meter
- * (613 753) Handpiece (with battery and 10/8mm light probe)
- * (627 300) Battery
- * (627 389) Light probe 10/8mm
- * (608 538) Light probe 6/2 mm Pin-Point
- 9537688 (608 554) Protective sleeves (5 x 50 pieces)
- 9534690 (551 756) Anti-glare cone (3 pieces)
- 9534692 (592 496) Anti-glare shield

Every material. Every indication. Every time.

*Contact your Account Manager for more information on ordering this product



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Empress® Direct
Direct Esthetic Composite



The only Direct Composite that
can be called Empress®

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