# bluephase<sup>®</sup> 20i

Licence to cure

## new LED for every use



## **bluephase** – The next generation in light-curing

**Every material due to polywave**<sup>®</sup> **LED** With its specially developed **polywave LED**, the 2<sup>nd</sup> 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 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 restorations can be placed without interruptions.

#### 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.



#### 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 dominant wavelength – bluephase is suitable for all light-curing materials.







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



## bluephase<sup>®</sup> 20i – on a maximum mission



#### The dental experts agree:



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. Dr A. Kurbad, Germany

#### bluephase 20i ...

The battery-operated bluephase 20i combines the highest light intensity of 2,000 mW/cm<sup>2</sup> 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.

## ... on a maximum mission

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.

#### Everything from the same manufacturer

Ivoclar Vivadent provides the best prerequisites for durable aesthetic composite restorations and adhesively cemented all-ceramic restorations 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.

#### Field test on light intensity (mW/cm<sup>2</sup>)

	Value indicated by manufacturers	Mean value measured	Units with an intensity of < 70 % of the value stated by manufacturer
bluephase (previous model)	1,100 (± 10 %)	1,066	0 %
L.E.Demetron I*	1,000		67 %
Translux Power Blu	ie* 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 were 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.



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.



# bluephase<sup>®</sup> 20i – Technical data at a glance



	new	
	bluephase <sup>®</sup> 20i	bluephase®
100 - 240V	613 735	607 920
100 - 240V & bluephase meter	613 752	607 921
10 mm light probe, black 608 53	7 –	-
10>8 mm light probe, black 627 38	9	-
6>2 mm (Pin-Point), black 608 53	8 🗸	1
Protective sleeves 608 55	4	-
Anti-glare cone 551 75	6	•
Anti-glare shield 592 49	6	1
Battery	627 300	608 535
Handpiece	613 753 (handpiece, battery, light probe 10>8 mm)	608 532 (handpiece, battery, light probe 10 mm)

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■ Included in delivery form ✓ Available as accessory

#### bluephase meter -

Accessories / delivery forms

Licence to measure intensity The innovative radiometer with a unique a circular light-emission window.



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