

# TECHNOLOGY IN FOCUS

## THE VALO CURING LIGHT FAMILY

The VALO range of curing lights has developed to meet the needs of clinicians, explains Tony Beale

Since their initial introduction to the dental market, curing lights have been the subject of much debate, with some models proving to be disappointing in performance and reliability. In order to achieve desired performance levels, they tended to be bulky, making some intraoral areas difficult to reach. High costs attached to halogen bulb and re-chargeable battery replacements added to overall maintenance expenses.

Ultradent Products, Inc, set out to develop a much more versatile, and practical dental curing light, resulting in the introduction of the VALO LED curing light in 2009.

### VALO OPTIONS AND FEATURES

The VALO Cordless was introduced in response to those operators who require a battery-powered, cord-free light, capable of delivering the same performance as that of a mains-connected light. The light weighs only 170g, and its lithium-iron phosphate batteries are environmentally safe, with a re-charging time of only 1-3 hours, and capable of delivering around 400 cures.

When compared to other cordless lights it

offers considerable advantages of compactness, and slimness of design, together with an energy-saving 'sleep mode' feature and motion detector.

All three versions of the VALO curing light have four LEDs delivering a wavelength range of 395-480nm, and are capable of initiating Camphorquinone, Lucirin TPO and PPD, the commonly used photoinitiators in current light-cure materials. They guarantee homogeneous intense curing, even in deep cavities and for bonding ceramics. Their innovative glass lens will focus emitted light to a collimated beam, producing a light spot for uniform and complete cures.

The VALO lights have three high energy curing modes - Standard (1,000mW/cm<sup>2</sup>), High power, (1,400mW/cm<sup>2</sup>), and Xtra power, (3,200mW/cm<sup>2</sup>), allowing operator choice for all applications.

The very slim head allows access to the most distal of mouth areas with significantly less mouth opening, than that required when using more conventional 60° light guides.

### VALO ORTHO CURING LIGHT

The VALO Ortho shares the same benefits as those found in the Original VALO, and although it does have a power cord, this cord is extremely lightweight, highly flexible, tear resistant and Kevlar reinforced. The light

The original VALO curing light with Kevlar-reinforced power cord



weighs only 77g, or 115g with its cord.

It is designed and specially equipped for orthodontic bonding procedures, and offers the orthodontist an instrument designed for frequent use. The light should be centrally positioned on the bracket; it will illuminate for three seconds with a 1.5 second rest in between each three-second burst, indicating a move to the next tooth.

Each VALO light comes with a handpiece bracket holder, and a full range of accessories including various different lens options, light shield and barrier sleeves, are also available.



Using the VALO Ortho curing light for bonding of orthodontic brackets

VALO curing lights are available from Optident Ltd. To purchase, please call: 01943 605050 or visit [www.optident.co.uk](http://www.optident.co.uk)  
For further information, please visit [www.valo-led.com](http://www.valo-led.com)

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