

VALO[®]

GRAND



ULTRADENT
PRODUCTS, INC.
Improving Oral Health Globally



WARNINGS AND PRECAUTIONS

Read all instructions before operating this unit. The manufacturer accepts no liability for any damage resulting from the improper use of this unit and/or for any purpose other than those covered by these instructions.

- VALO GRAND emits high intensity light very similar to high intensity Quartz halogen lights and must only be used as indicated in this manual.
- DO NOT look directly into the light output. Patient, clinician, and assistants should always wear UV orange eye protection when this device is in use.
- USE CAUTION when treating patients who suffer from adverse photobiological reactions or sensitivities, patients who are undergoing chemotherapy treatment, or patients being treated with photosensitizing medication.
- DO NOT expose soft oral tissues at close proximity. Maintain a safe distance between the lens and the soft tissue. For concern about over-heating soft tissue, consider using multiple short exposures, or use a dual-cure product.
- If using the VALO GRAND LED Curing Light in the Standard and High Power modes and in close proximity of the gingival tissue, DO NOT expose tissue for more than 20 seconds. If longer curing time is required, consider a dual-cure product.
- In Xtra Power Mode, DO NOT expose soft oral tissue for more than 9 seconds. The Xtra Power Mode has a 2 second safety delay to limit oral tissue heating during consecutive curing. If a longer cure is needed, consider a dual-cure product.
- Take extra care to avoid directing light toward soft tissues.
- WARNING: No modification of this equipment is allowed.
- When disposing of electronic waste, (i.e. devices, chargers, batteries and power supplies), follow local waste and recycling guidelines.

Product Information:

Indications for Use: The VALO GRAND is a source of illumination for curing photo-activated dental restorative materials and adhesives.

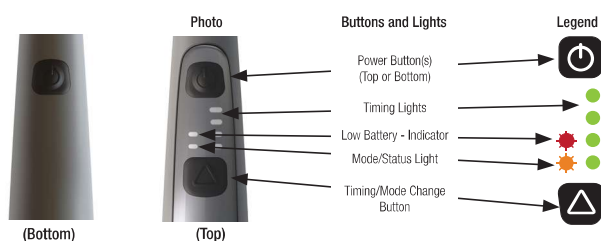
The VALO GRAND curing light uses a custom, multi-wavelength (395 - 480nm) Light Emitting Diode (LED) for producing the high intensity light capable of polymerizing all light cure dental materials. This intensity will also penetrate porcelain and is capable of curing underlying resin cements similar to a quality halogen light.

The VALO GRAND curing light uses Ultradent VALO rechargeable batteries and battery charger.

Product Components:

- 1 – VALO GRAND curing light
- 4 – Ultradent VALO rechargeable batteries
- 1 – Ultradent VALO battery charger with medical grade 12VDC AC power adapter
- 50 – VALO Barrier Sleeves
- 1 – VALO GRAND Light Shield
- 1 – Handpiece surface mounting bracket with double stick adhesive tape

Overview of Controls:



Instructions for Use:

- 1- Remove all components from the packaging and examine them. If anything appears to be damaged, return to the manufacturer.
- 2- Charge batteries before using the device (See section Charging and Changing Batteries).
- 3- Insert two fully charged batteries positive (+) end first.
- 4- Replace the battery cover.
- 5- The VALO GRAND handpiece will beep when powering on.
- 6- Select the desired mode (see section Quick Mode Guide).
- 7- Press either power button to activate the light.

NOTE: The VALO GRAND curing light is programmed to cycle from the Standard Power to the High Power to the Xtra Power mode in sequence. For example, to change from the Standard Power mode to the Xtra Power mode, it is necessary to cycle into the High Power mode and then to the Xtra Power mode.

The VALO GRAND curing light stores the most recently used timing interval, and mode, and it will default back to this whenever the modes are changed or if the batteries are removed.

SLEEP MODE: The VALO GRAND curing light will go into Sleep Mode after 60 seconds of inactivity, as indicated by a slow flashing of the mode/status light. Picking up or touching the unit will wake-up VALO GRAND and automatically return it to the last setting used.

WARNING: Storage and Travel: If storing the VALO GRAND for periods longer than 2 weeks, or packing it for travel, always remove the batteries. If batteries are left in the unit for long periods of time without recharging they may become nonfunctional or un-chargeable.

Charging and Changing Batteries

The VALO GRAND comes with 4 rechargeable lithium iron Phosphate batteries.

How to charge batteries

1. Inspect batteries and charger for corrosion, rust, or damage prior to use.
2. Plug charger into electrical outlet.
3. Insert batteries into charger with positive (+) end pointed towards the indicator lights on charger.
4. Green Lights indicate batteries are ready for use.
5. Batteries will take 1-3 hours to charge. Leave batteries in charger until ready for use.



How to change/insert batteries

1. Remove back cap by twisting counterclockwise one quarter turn.
2. Remove batteries.
3. Insert fresh batteries positive (+) side first.
4. Reattach back cap by aligning and gently pushing while twisting clockwise.
The cap will click when fully attached.
5. The unit is ready for use.



Caution

To avoid risk of electrical fire:

1. Keep charger and batteries away from clinical operating to minimize exposure to liquids
2. If cleaning becomes necessary then unplug charger, wet a cloth with isopropyl alcohol, and gently wipe the surface of the charger or batteries.
3. DO NOT spray or wipe electrical or battery contacts.
4. Always prevent liquids from entering any opening.

Note:

- Make sure batteries are inserted into unit positive (+) end first.
- DO NOT insert fingers, instruments, or other objects into the battery compartment.
- DO NOT attempt to clean the gold contacts, batteries or any other part of the battery compartment, Call Ultradent Customer Service if there is a concern.

LOW BATTERIES: The VALO GRAND signals the user that it is time to change the batteries when the Low Battery Indicator Light is flashing red. If the battery charge becomes too low, an audible 3 beep warning sound will occur and the VALO GRAND will not allow further operation until batteries are recharged or new batteries are inserted. (See Warning Light Guide)

Charging Time and Battery Life: Fully charged battery life in the VALO GRAND is dependent on the MODE, TIME interval, battery type, amount of use, and LED efficiency. In general, rechargeable batteries should last 1 - 2 weeks. Non-rechargeable batteries may last 2 - 3 times longer.

- Recommended Recharge Interval: When low battery indicator comes on, or approximately every 1 - 2 weeks, depending on use.
- Extra Batteries: VALO GRAND comes with 4 rechargeable batteries. We also recommend keeping a spare set of non-rechargeable CR123A Batteries on hand in the event of a problem or loss of the rechargeable batteries.
- **Battery Life Expectancy:** Battery life expectancy will vary based on use, handling, and environment. Replace batteries if damaged, dented, or corroded.

Note: If you are moving the light from operatory to operatory and the light does not go into Sleep Mode then the battery life may be affected.

Note:

- If the red light on the charger doesn't turn to green, when the batteries have been charging longer than 3 hours, this means a battery may be degraded (corrupted) and cannot be charged. Try a new battery or call Ultradent Customer Service to order a new set of rechargeable batteries.
- DO NOT use batteries if the printed battery label is torn or removed from the battery. Replace with a new battery and recycle old battery.
- If the light does not function properly, remove and replace batteries and check again.



WARNING - CAUTION

- DO NOT mix rechargeable batteries with non-rechargeable batteries.
- DO NOT attempt to charge non-rechargeable batteries.
- Use only safe rechargeable Lithium Iron Phosphate batteries or non-rechargeable batteries.
- DO NOT store batteries in temperatures over 60°C or in direct sunlight.
- DO NOT autoclave batteries, charger, AC power adapter, or VALO GRAND.
- DO NOT get batteries or charger wet or charge around flammable materials.

If necessary, Ultradent authorizes the following alternative batteries for the VALO GRAND.

Authorized Alternate Batteries
Non-rechargeable, primary batteries 1. Tenergy Propel Photo Lithium: (safe, long lasting, recommended) 2. Titanium Innovations CR123A: (safe, long lasting, recommended) 3. Energizer® 123 4. Duracell® Ultra CR123A 5. SureFire® SF123A 6. Panasonic® CR123A

Installing Hygienic Barrier Sleeves

The hygienic barrier sleeve is custom fitted to the wand and keeps the surface of the VALO GRAND clean. The barrier sleeve helps prevent cross contamination and helps keep dental composite material from adhering to the surface of the lens and wand body, and discoloration and corrosion from cleaning solutions.

Note:

- Using the hygienic barrier sleeve will reduce the light output by 5-10%. Due to the high output power of the VALO GRAND, curing has been shown to be substantially equivalent.
- Barrier sleeves are single patient use only.
- Discard used barrier sleeves in standard waste after each patient.
- DO NOT leave barrier sleeves on the wand for extended periods.
- VALO GRAND must be cleaned and sanitized with appropriate cleaning and/or sanitizing agents after each patient. See section titled **Maintenance and Cleaning**.



VALO Light Shield

The VALO Light Shield is oval-shaped and can be rotated for maximum use. The shield can be used with or without a transparent barrier sleeve.

Cleaning the Light Shield:

Cold disinfect the Light Shield using any surface disinfectant. Do not autoclave.

Precaution: Always wear amber colored safety glasses while the curing light is illuminated.

Quick Mode Guide

Mode Power Level	Standard Power 1000 mW/cm ²				High Power Plus 1600 mW/cm ²				Xtra Power 3200 mW/cm ²
Power Button(s)									
Mode/Timing LEDs									
Time Button Time Options	5s	10s	15s	20s	1s	2s	3s	4s	3s only
To Change Time	Press and release Time Button quickly to cycle through time options.								
To Change Modes	Press and hold the Time Button for 2 seconds and release, VALO GRAND will cycle to next Mode.								
Legend	Solid LEDs: Blinking LEDs:								

Quick Curing Guide: Recommended Curing Times for Optimal Results with VALO GRAND

Exposure times may need to be adjusted due to composite reactivity, shade, distance from the light lens to the composite, and depth of composite layer if it is over 2mm.

Mode	Standard Mode	High Power Plus Mode	Xtra Power Mode
Power Level	1000 mW/cm ²	1600 mW/cm ²	3200 mW/cm ²
Per Layer	One 10 second cure	Two 4 second cures	One 3 second cure
Final Cure	Two 10 second cures	Three 4 second cures	Two 3 second cures

Quick Warning Guide

Power Level Warning	Temperature Warning	Service Warning	LED Warning
Replace batteries	Allow cool down	Call Customer Service for Repair	Call Customer Service for Repair
Low battery: Slow flashing Shut off: 3 beeps, flashing Prohibits operation	3 beeps Slow flashing Prohibits operation	No sound. Flashing, 2 seconds Allows operation	Continuous 3 beeps Single rapid flash Prohibits operations

CURING MODE: Standard Power mode - 1000 mW/cm²

USES: Curing of restorative materials with photo initiators.

TIMING INTERVALS: 5, 10, 15, 20 seconds.

- VALO GRAND defaults to this mode when it is **INITIALLY** powered on. The Status Light is green and the green Timing Lights are solidly illuminated.
- To change timing intervals, quickly press the Time/Mode Button.
- Press either Power Button to cure. To stop curing prior to completion of a timing interval, press either Power Button again.

CURING MODE: High Power Plus mode - 1600 mW/cm²

USES: Curing of restorative materials with photo initiators.

TIMING INTERVALS: 1, 2, 3, 4 seconds.

- From Standard Power mode, press and hold the Time Button for 2 seconds. The green Timing Lights will illuminate and flash. The Status Light will illuminate as a steady orange light, indicating High Power mode.
- To change timing intervals, quickly press the Time/Mode Button.
- Press either Power Button to cure. To stop curing prior to the completion of a timing interval, press either Power Button again.
- To return to Standard Power mode, press and hold the Time/Mode Button for 2 seconds, release, which cycles to Xtra Power Mode, then hold again for 2 seconds, and release to Standard power mode.

CURING MODE: Xtra Power mode - 3200 mW/cm²

USES: The Xtra Power mode is useful for all dental curing. It is especially valuable for deep curing of restorative materials, placing thin veneers, attaching orthodontic brackets, and fast curing in pediatric settings.

TIMING INTERVAL: 3 seconds only (Note: there is a 2 second safety delay to limit heating at the end of each curing cycle. At the end of the delay, beeping indicates unit is ready for continued use).

- From the Standard Power mode, press the Time Button for 2 seconds, release, press again for 2 seconds, and release. Three of the green Timing Lights and the orange Status Light will illuminate and flash, indicating Xtra Power mode.
- Press either Power Button to cure. To stop curing prior to completion of a timing interval, press either Power Button again.
- To return to the Standard Power mode, press and hold the Time Button for 2 seconds.

Notes:

- The VALO GRAND curing light is programmed to cycle from the Standard Power mode to the High Power mode to the Xtra Power mode in sequence. For example, to change from the Standard Power mode to the Xtra Power mode, it is necessary to cycle into the High Power mode and then to the Xtra Power mode.
- If it is necessary to cure near soft tissue, cooling with an air stream is an option for keeping the area cooler.

Duty Cycle: The VALO is designed for short-term operation. At maximum ambient temperature (32°C) 1 minute ON back-to-back cycling, 30 minutes OFF (cooling-off period).

Maintenance and Cleaning

The VALO GRAND curing light is a sealed unit with a hard surface and a scratch resistant glass lens. After each use, moisten a gauze or soft cloth with an approved surface disinfectant and wipe the surface and lens.

Routinely check the lens for cured dental resins. If necessary, use a non-diamond dental instrument to carefully remove any adhered resin.

The barrier sleeve helps prevent cross contamination and helps keep dental composite material from adhering to the surface of the lens and wand body.

Light meters differ greatly and are designed for specific light guide tips and lenses. Ultradent recommends checking VALO GRAND in Standard Power mode. NOTE: the true numeric output will be skewed due to the inaccuracy of common light meters and the custom LED pack VALO GRAND uses.



PRODUCT SAFETY WARNINGS:

- DO NOT autoclave batteries, charger, power adapter, or VALO GRAND.
- DO NOT insert fingers, instruments, or other objects into the battery compartment of the VALO GRAND.
- DO NOT attempt to clean the gold contacts, any part of the battery compartment, batteries or battery charger. Call Ultradent Customer Service if there is a concern.
- DO NOT immerse in any kind of ultrasonic bath, disinfectant, cleaning solutions, or any kind of liquid.
- DO NOT wipe down the VALO GRAND curing light with caustic or abrasive cleaners. See lists of acceptable cleaners below.
- PRECAUTION: Static Electricity – This unit may be susceptible to strong magnetic or static electric fields which could disrupt the programming. If you suspect this has occurred, unplug power supply or remove batteries momentarily.

ACCEPTABLE CLEANERS:

- Lysol Brand III Disinfectant Spray (Recommended)
- Isopropyl alcohol
- Ethyl alcohol-based cleaners
- Lysol® Concentrate (alcohol-based only)
- Cavicide™ products (Non-Bleach)(See warning below)*†

DO NOT USE:

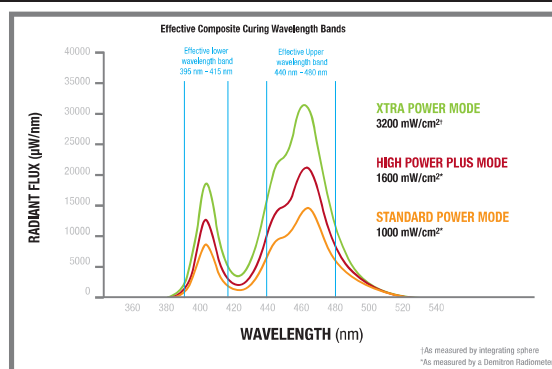
- Strong alkali detergent of any type, including hand soaps and dish soaps
- Bleach-based cleaners (e.g. – Clorox™, Sterilox™)
- Hydrogen Peroxide based cleaners
- Abrasive Cleaners (e.g. – Comet Cleanser™)
- Acetone or hydrocarbon based cleaners
- MEK (Methyl Ethyl Ketone)
- Birex®
- Gluteraldehyde
- Quaternary Ammonium Chloride salt-based cleaners (except Cavicide)

* If used, it may fade the color

† DO NOT use Cavicide1 solution or wipes

Troubleshooting Guide	
If the solutions suggested below do not rectify the problem, please call Ultradent at 800.552.5512. Outside the United States, call your Ultradent distributor or dental dealer. Repairs are only to be performed by authorized service personnel. Ultradent to provide service personnel with documentation to perform repairs. WARNING: When sending units in for repair, service, or calibrations, always remove the batteries from the VALO GRAND and charger. Wrap batteries, charger, adapter, and VALO GRAND separately in the return box.	
Problem	Possible solutions
Light will not turn on	1. Press the Time/Mode or either Power Button to wake from Power Save Mode. 2. Check the red Low Battery Indicator for battery charge status. 3. Check that fresh batteries are correctly inserted into the unit. 4. If red and yellow Warning LEDs are flashing this means the VALO GRAND has reached its internal temperature safety limit. Allow the VALO GRAND to cool down for 10 minutes or use a cool moist towel to cool the unit down quickly. 5. If red Warning LED flashes and beeps continuously, call Ultradent Customer Service for repair.
Light will not turn off	1. Remove batteries and call Ultradent Customer service for repairs.
Light does not stay on for desired time	1. Check that the unit is set to desired Mode. 2. Check the Low Battery Indicator for battery charge status. 3. Check that fresh batteries are properly inserted into the unit.
Light is not curing resins properly	1. Check lens for residual cured resins/composites (see "Maintenance and Cleaning"). 2. Using proper orange UV eye protection, verify the LED die lights are working. 3. Check power level with light meter. 4. Check expiration date on curing resin. 5. Ensure proper technique is being followed accordingly to manufacturer recommendations.
Batteries will not charge	1. Make sure batteries are inserted into the charger in the correct orientation and allow batteries to charge for 1-3 hours. 2. If red lights on the charger do not change to green, call Ultradent Customer Service to order replacement batteries and/or charger. 3. If neither green nor red lights on the charger are visible, call Ultradent Customer Service to order or replace charger and/or AC adapter.
Batteries show corrosion or emits an odor	1. Remove charger from outlet immediately. 2. Call Ultradent Customer Service for new batteries and/or charger.
Charger does not charge batteries	1. Make sure charger is plugged in and AC adapter is plugged into a working power outlet. 2. If green or red lights on the charger are not visible, call Ultradent Customer Service for new charger and/or AC adapter.
Wrapping (plastic covering) comes off of the battery	1. Do not use these batteries in the VALO GRAND. 2. Recycle batteries. 3. Call Ultradent Customer Service to order replacement batteries.

Technical Information	VALO GRAND LED Curing Light
Wavelength range	395nm – 480nm (see qualification below) Effective output Power of VALO GRAND falls within the following wavelength range: • 395nm <= EP <= 480nm Minimal and insignificant power can be found in wavelength ranges: • 380nm – 395nm and 480nm – 510nm



Light Intensity	* Standard power – 1000mW/cm² +/-10% * High power Plus – 1600mW/cm² +/-10% † Xtra Power – 3200mW/cm² +/- 20%	* As measured with a Demetron® L.E.D. Radiometer † As measured by the Marc spectrum analyzer Demetron readings are approximate reference power values, but should not be taken as exact values. Dental radiometers will vary from meter to meter, manufacturer to manufacturer.
AC Power Adapter	Globtek Medical Grade with international plug inserts Output: 12VDC, 500mA Input: 100VAC – 240VAC Ratings: Medical Grade Class II, (UL, CE, RoHS, WEEE)	Cord: 6 ft (1.8m), 2.5mm DC connector VALO Charger power supply provides isolation from MAINS power
VALO Charger	VALO 3.6VDC Lithium Iron Phosphate smart battery charger: • Automatic shut off when fully charged • Auto-detection of defective batteries • Charging time: 1 – 3 hours Rating: CE, WEEE	• Protections: Thermal, Overcharge, Short-circuit, reverse polarity - o Red LED – Charging - o Green LED – Empty or Fully Charged - o LED off – short circuit
VALO Batteries	Rechargeable: Safe chemistry Lithium Iron Phosphate (LiFePO₄) RCR123A • Working Voltage: 3.2VDC Ratings: CE, RoHS, WEEE	Alternate use Non-rechargeable: Lithium CR-123A 3VDC (use batteries greater than 1400mAh) Ship batteries in accordance with local regulations

VALO GRAND	Protections: Low Battery, Over Voltage, Over Temperature, LED Failure, Calibration Failure Limitations for Use: VALO GRAND will not allow operation if temperatures exceed 50°C. Ratings: Medical Grade, RoHS, WEEE Weight: • With batteries: 6 oz. (190 grams) • Without batteries: 5 oz. (150 grams) Dimension: (8 x 1.28 x 1.06) inches, (203 x 32.5 x 27) mm, nominal tip diameter 10mm
Operating Conditions	Temperature: +10°C to +32°C (+50°F to +90°F) Relative Humidity: 10% to 95% Ambient Pressure: 700 hPa to 1060 hPa
Storage and Transport Conditions:	Device Storage and Transport: • Temperature: +10°C to +40°C (+50°F to +104°F) • Relative Humidity: 10% to 95% • Ambient Pressure: 500 hPa to 1060 hPa Batteries: • Do not store at temperatures above 40°C/104°F • Do not store at temperatures below freezing 0° C/32° F • Store batteries in a cool, dry and well-ventilated area

Guidance and Manufacture's Declaration for Electromagnetic Emissions

The VALO GRAND is intended for use in the electromagnetic environment specified below. The customer or user should ensure that it is used in such an environment.
WARNING: Use only authorized accessories, cables, and power supplies to prevent improper operation, increased electromagnetic emissions or decreased electromagnetic immunity.

Emissions Test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	VALO GRAND uses batteries and is not affected by EMI, RF, or surge suppression.
RF emission CISPR 11	Class B	
Harmonic emissions IEC 61000-3-2	N/A	Harmonic emission and voltage fluctuation testing are not applicable to the VALO GRAND because it is battery powered.
Voltage fluctuations/flicker emissions IEC 61000-3-3	N/A	The VALO GRAND is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings for domestic use.

Guidance and Manufacture's Declaration for Electromagnetic Immunity			
The VALO GRAND is intended for use in the electromagnetic environment specified below. The customer or user should ensure that it is used in such an environment.			
IMMUNITY test	IEC 60601 test level	Compliance level	Electromagnetic environment guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact ± 15 kV air	± 8 kV contact ± 15 kV air	Physical environment should be restricted to the following: 1. IP Code: IP20 2. Do not immerse in liquid. 3. Do not use around flammable gas. Unit is Non-APG and Non-AP. 4. Storage humidity range: 5% - 95% 5. Storage temperatures range: 10° C - 40° C
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2 kV for power supply lines Note 1: VALO GRAND has no I/O ports	VALO GRAND is battery powered and is not capable of connection to AC MAINS power. Because the VALO GRAND is battery powered, it is not subject to electric transients, surges, voltage dips, shorts, interruptions, or variations on AC MAINS power.
Surge IEC 61000-4-5	± 1 kV line to line ± 2 kV line to earth	± 1 kV line to line ± 2 kV line to earth	
Voltage, dips, shorts, interruptions and variations on the power supply input lines IEC 61000-4-11	<5% U (>95% dip in U for 0,5 cycle) 40% U (60% dip in U for 5 cycles) 70% U (30% dip in U for 25 cycles) <5% U (>95% dip in U for 5 s)	<5% U (>95% dip in U for 0,5 cycle) 40% U (60% dip in U for 5 cycles) 70% U (30% dip in U for 25 cycles) <5% U (>95% dip in U for 5 s) Note 2: Self recovers	The accessory battery charger may be subject to the above but it is separate from and not critical to the operation of the VALO GRAND. If battery voltage of the VALO GRAND drops to 4VDC the unit will not allow operation. The VALO GRAND will turn off. When new batteries are put in and the proper power levels are restored, VALO GRAND will restart and return to the same state before power loss. The VALO GRAND will self-recover in the event of power loss.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical, residential, home health care, commercial, hospital, or military environment.
Note 1: The VALO GRAND is not equipped with any ports or any accessible I/O lines.			

Guidance and Manufacture's Declaration for Electromagnetic Immunity for non-life support systems			
The VALO GRAND is intended for use in the electromagnetic environment specified below. The customer or user should ensure that it is used in such an environment.			
IMMUNITY test	IEC 60601 test level	Compliance level	Electromagnetic environment guidance
Conduction RF	3 Vrms	3 Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the VALO GRAND, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = \left[\frac{3,5}{V_1} \right] \sqrt{P}$ $d = \left[\frac{3,5}{E_1} \right] \sqrt{P} \text{ 80 MHz to 800 MHz}$ $d = \left[\frac{7}{E_1} \right] \sqrt{P} \text{ 800 MHz to 2.5 GHz}$ P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,^a should be less than the compliance level in each frequency range.^b Interference may occur in the vicinity of equipment marked with the following symbol: 
IEC 61000-4-6	150 kHz to 80 MHz	150 kHz to 80 MHz	
Radiated RF	3 V/m	3 V/m	
IEC 61000-4-3	80 MHz to 2.5 GHz	80 MHz to 2.5 GHz	
NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people. ^a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the VALO GRAND is used exceeds the applicable RF compliance level above, the VALO GRAND should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the VALO GRAND. ^b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.			

Guidance and Manufacture's Declaration for recommended separation distances between portable and mobile RF communications equipment and the VALO GRAND			
WARNING: Portable RF communications equipment may degrade performance if used closer than 30 cm (12 in"). The VALO GRAND is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The user of the VALO GRAND can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the VALO GRAND as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter (P in watts)	Separation distance according to frequency of transmitter (meters)		
	150 kHz – 80 MHz	80 MHz – 800 MHz	800 MHz – 2.5 GHz
	$d = \left[\frac{3,5}{V_1} \right] \sqrt{P}$	$d = \left[\frac{3,5}{E_1} \right] \sqrt{P}$	$d = \left[\frac{7}{E_1} \right] \sqrt{P}$
0.01	0.12 meters	0.035 meters	0.07 meters
0.1	0.37 meters	0.11 meters	0.22 meters
1	1.7 meters	0.35 meters	0.7 meters
10	3.7 meters	1.11 meters	2.22 meters
100	11.7 meters	3.5 meters	7.0 meters
The VALO Grand has been tested according to IEC 60601-1-2:2014 and passed under radiated field strengths of 10 V/m between 80-MHz to 2,5 GHz. The value of 3Vrms corresponds to V1 and the value 10 V/m corresponds to E1 in the formulas above. For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer. NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

Warranty

Ultradent hereby warrants that this instrument shall, for a period of 2** years from the date of purchase, conform in all material respects to the specifications as set forth in Ultradent's documentation accompanying the product, and be free from any defects in materials and/or workmanship. This warranty applies solely to the original purchaser and is not transferable. This warranty applies solely to the VALO GRAND and does not cover any accessory components such as batteries, chargers, adapters, and adaptive lenses. There are no user serviceable components of the VALO GRAND system. Tampering with VALO GRAND will void its warranty.

The VALO GRAND warranty does not cover customer caused damage. For example; if a VALO GRAND is misused or dropped and the lens breaks, the customer would be responsible to pay for any necessary repairs.

**With sales receipt indicating the date of sale to the dentist.

	EN - Warning to read and following instructions and pay attention to specific warnings and cautions related to the use of a curing light. / DE - Warnung zum Lesen und Befolgen der Anweisungen: Achten Sie auf spezifische Warnungen und Vorsichtsmaßnahmen im Zusammenhang mit der Verwendung des Aushärtungslichtes. / FR - Veuillez à lire et observer les instructions suivantes et à tenir compte des mises en garde et avertissements relatifs à l'utilisation d'une lampe à polymériser. / NL - Waarschuwing om de instructies te lezen en op te volgen en te letten op specifieke waarschuwingen en voorzorgsmaatregelen voor het gebruik met betrekking tot het gebruik van een uithardingslamp. / IT - Attenzione, Leggere e seguire le istruzioni e prestare attenzione alle avvertenze e agli avvisi specifici legati all'uso di una lampada fotopolimerizzante. / ES - Advertencia: Lea, siga las instrucciones y preste atención a las advertencias y precauciones específicas relacionadas con el uso de una lámpara de fotocurado. / PT - Aviso para ler e seguir as instruções e prestar atenção a advertências e precauções específicas relacionadas com a utilização de um fotopolimerizador. / SV - Varning: Läs och följ instruktioner och var uppmärksam på specifika varningar och försiktighetsåtgärder i samband med användning av hårdningsljus. / DA - Advarsel til at læse og følge instruktioner, og være opmærksom på specifikke advarsler og forholdsregler i forbindelse med brug af et hårdningslys. / FI - Varoitus: Lue seuraavat ohjeet ja kiinnitä huomiota tiettyihin valokovettimen käyttöä koskeviin varoituksiin. / NO - Advarsel om å lese og følge instruksjonene, og ta hensyn til spesifikke advarsler og advarsler knyttet til bruk av hardelys. / EL - Προειδοποίηση για ανάγνωση και παρακολούθηση των οδηγιών και προσοχή σε συγκεκριμένες προειδοποιήσεις και προφυλάξεις σχετικά με τη χρήση λυχνίας φωτοπολυμερισμού. / RU - Предупреждение. Прочтите и выполните следующие указания, обращая внимание на меры предосторожности, относящиеся к использованию полимеризационной лампы. / PL - Ostrzeżenie o konieczności przeczytania i postępowania zgodnie z instrukcją oraz zwrócenia uwagi na specyficzne ostrzeżenia i przepisy związane ze stosowaniem lampy polimerizacyjnej. / TR - Talimatları okumak ve takip etmek ve bir işkili doğru kullanımı ile ilgili özel uyarı ve uyarılara dikkat etmek için uyarı. / AR - تحذير القراءة وتبالي التعليمات وإيلاء الاهتمام تحذيرات محددة وتحذيرات مثل التحذيرات والاحتياطات. / KO - 지시 사항을 읽고 따르고 경각 알리트 사용과 관련된 구체적인 경고 및 주위에 유의하십시오. / ZH - 警告, 要求阅读并遵循指导, 而且要注意与使用固化灯相关的特定警告和注意事项. / TH - ระวัง ในการอ่านและปฏิบัติตามคำแนะนำและคำเตือนที่เฉพาะเจาะจงและให้ความสนใจกับคำเตือนและข้อควรระวังที่กำหนดไว้สำหรับการใช้ไฟกระพริบ. / JA - 使用上の注意を読んで指示に従い、硬化ライトの使用に関する特定の警告と注意事項に注意してください。
	EN - Consult the Instructions for Use for cautionary information, such as warnings and precautions. / DE - Beziehen Sie die Gebrauchsanweisung für Vorsichtshinweise, wie z.B. Warnungen und Vorsichtsmaßnahmen. / FR - Consultez les instructions d'utilisation pour connaître les précautions d'emploi telles que les avertissements et les précautions. / NL - Raadpleeg de gebruiksaanwijzing voor informatie omtrent veiligheid, zoals waarschuwingen en voorzorgsmaatregelen. / IT - Consultare le istruzioni per l'uso per le informazioni di sicurezza, quali avvertenze e precauzioni. / ES - Consulte las instrucciones de uso para obtener advertencias e precauciones. / SV - Läs bruksanvisningen för varningsinformation, såsom varningar och försiktighetsåtgärder. / DA - Se brugsanvisningen for at få forsigtighedsoplysninger, såsom advarsler og forholdsregler. / FI - Varoitavia tietoja, kuten varoituksia ja varotoimia, koskien, vitaa käyttöohjeisiin. / NO - Rådfor deg med bruksanvisningen vedrørende advarende informasjon så som advarsler og forholdsregler. / EL - Συμβουλευτείτε τις Οδηγίες Χρήσης για προειδοποιητικές πληροφορίες, όπως προειδοποιήσεις και προφυλάξεις. / RU - Информацию о мерах предосторожности и предупреждениях можно найти в Инструкции по использованию продукта. / PL - Informacje ostrzegawcze, np. ostrzeżenia i środki ostrożności można znaleźć w instrukcji obsługi. / TR - Uyarılar ve önlemler gibi dikkatli bilgiler için Kullanım Kılavuzuna bakın. / AR - راجع إرشادات الاستخدام للحصول على معلومات تحذيرية، مثل التحذيرات والاحتياطات. / KO - 경고 및 사전 주의사항과 같은 유의 정보에 대해서는 사용 지침을 참조하십시오. / ZH - 查阅使用指导中的警示性信息, 如警告和注意事项. / TH - ศึกษาคำแนะนำในการใช้ผลิตภัณฑ์เพื่อดูคำแนะนำและคำเตือนที่เฉพาะเจาะจงและให้ความสนใจกับคำเตือนและข้อควรระวังที่กำหนดไว้สำหรับการใช้ไฟกระพริบ. / JA - 警告や注意事項などの注意情報については、使用説明書を参照してください。
	EN - Refer to Instruction manual/booklet. / DE - Siehe Bedienungsanleitung / Broschüre. / FR - Reportez-vous au manuel ou au livret. / NL - Raadpleeg de gebruiksaanwijzing/boekje. / IT - Fare riferimento al manuale/libretto di istruzioni. / ES - Consulte el manual/folleto de instrucciones. / PT - Consulte o manual de instruções/folheto. / SV - Se bruksanvisningen/häftet. / DA - Se brugsanvisning/hefte. / FI - Katso Käyttöohjekirja (-kirjanen). / NO - Se instruksjonsmanual/-hefte. / EL - Ανατρέξτε στο εγχειρίδιο/φύλλο οδηγιών. / RU - См. Руководство по эксплуатации/буклет. / PL - Patrz instrukcja obsługi/broszura. / TR - Bkz. Kullanım kılavuzu / kitapçık. / AR - راجع كتيب التعليمات / الدليل. / KO - 사용설명서/소책자를 참조하십시오. / ZH - 参考指导手册/小册子. / TH - ปรึกษาหนังสือคู่มือ/เอกสาร. / JA - 取扱説明書・小冊子を参照してください。
	EN - Compliance with EU regulations for safety, electrical and electronic interference and immunity. / DE - Einhaltung der EU-Vorschriften für Sicherheit, elektrische und elektronische Störungen und Immunität. / FR - Conformité à la réglementation européenne en matière de sécurité, d'interférence et d'immunité électrique et électronique. / NL - Naleving van de EU-voorschriften voor veiligheid en immunitet voor elektrische en elektronische storingen. / IT - Conformità alle normative UE per la sicurezza, l'interferenza elettrica ed elettronica e l'immunità. / ES - Cumplimiento de las normativas de seguridad, interferencias eléctricas y electrónicas e inmunidad de la UE. / PT - Conformidade com as regulamentações da UE em matéria de segurança, interferências eléctricas e electrónicas e imunidade. / SV - Överensstämmelse med EU:s föreskrifter för säkerhet, elektrisk och elektronisk störning och immunitet. / DA - Overholdelse af EU-regler om sikkerhed, elektrisk og elektronisk interferens og immunitet. / FI - Noudattaa EU:n turvallisuutta sekä sähköisiä- ja elektronisiahäiriöitä ja häiriönsietoja koskevia säännöksiä. / NO - Overholdelse av EUs forskrifter for sikkerhet, elektrisk og elektronisk interferens og immunitet. / EL - Συμμόρφωση με τους κανονισμούς της ΕΕ για την ασφάλεια, τις ηλεκτρικές και ηλεκτρονικές παρεμβολές και την ανοσία. / RU - Удовлетворяет требованиям ЕС в области безопасности и помехозащитности. / PL - Zgodność z przepisami UE dotyczącymi bezpieczeństwa, zakłóceń elektrycznych i elektrycznych oraz odporności. / TR - Güvenlik, elektrikli ve elektronik müdahale ve bağışıklık için AB düzenlemelerine uyum. / AR - الامتثال لوائح الاتحاد الأوروبي المتعلقة والأحداث الكهربية والكهرومغناطيسية والأمن. / KO - 안전, 전기 및 전자 간섭 및 내성에 대한 EU 규정 준수. / ZH - 符合欧盟有关安全、电气和电子干扰及抗扰性的法规. / TH - ปฏิบัติตามกฎระเบียบด้านความปลอดภัยและภูมิคุ้มกันไฟฟ้าแม่เหล็กของสหภาพยุโรป / JA - 安全、電気、電子干渉およびイミュニティに関するEU規制に準拠しています。
	EN - Authorized representative. / DE - Autorisierter Vertreter. / FR - Représentant autorisé. / NL - Erkende vertegenwoordiger. / IT - Rappresentante autorizzato. / ES - Representante autorizado. / PT - Representante autorizado. / SV - Auktoriserad representant. / DA - Autoriseret repræsentant. / FI - Valtuutettu edustaja. / NO - Autorisert representant. / EL - Εξουσιοδοτημένος εκπρόσωπος. / RU - Уполномоченный представитель. / PL - Autoryzowany przedstawiciel. / TR - Yetkili temsilci. / AR - ممثل مفوض. / KO - 인가 받은 담당자. / ZH - 经授权的代表. / TH - อนุมัติผู้แทน. / JA - 認定代理人。

	EN - Upper and lower temperature limitations: Do not store or transport the device in areas above 40°C (104°F) or below 10°C (50°F). / DE - Obere und untere Temperaturbegrenzung: Lagern oder transportieren Sie das Gerät nicht über 40 °C (104 °F) oder unter 10 °C (50 °F). / FR - Limites inférieures et supérieures de température : Ne pas entreposer ni transporter l'appareil à des températures supérieures à 40 °C (104 °F) ou inférieures à 10 °C (50 °F). / NL - Bovenste en onderste temperatuurgrenzen: Bewaar of vervoers het apparaat niet in omgevingen boven 40°C (104°F) of onder 10°C (50°F). / IT - Limiti di temperatura superiore e inferiore: non conservare o trasportare il dispositivo in aree con temperature superiori 40°C (104°F) o inferiori a 10°C (50°F). / ES - Limitaciones de temperatura superior e inferior: No almacene ni transporte el dispositivo en áreas por encima de 40 °C (104 °F) ni por debajo de 10 °C (50 °F). / PT - Limitações de temperatura superior e inferior: Não armazene ou transporte o dispositivo em áreas com temperaturas superiores a 40°C (104°F) ou inferiores a 10°C (50°F). / SV - Övre och nedre temperaturbegränsningar: Förvara eller transportera enheten i områden över 40°C (104°F) eller under 10°C (50°F). / DA - Øvre og nedre temperaturbegrænsninger: Opbevar eller transport kiletta olosuhteissa, joissa lämpötila ylittää +40°C:ta (104°F) tai alittaa +10°C:ta (50°F). / FI - Lämpötilan ylä- ja alarajotukset. Älä säilytä tai kuljetta kiletta olosuhteissa, joissa lämpötila ylittää +40°C:ta (104°F) tai alittaa +10°C:ta (50°F). / NO - Øvre og nedre temperaturbegrensninger: Ikke lagre eller transport enheten ved temperaturer over 40°C (104°F) eller under 10°C (50°F). / EL - Ανώτατο και κατώτερο όριο θερμοκρασίας: Μην αποθηκεύετε ή μεταφέρετε τη συσκευή σε περιохές με θερμοκρασία μεγαλύτερη των 40°C (104°F) ή μικρότερη των 10°C (50°F). / RU - Ограничение по максимальной и минимальной температуре. Запрещается хранить и транспортировать устройство в зонах, где температура воздуха выше 40°C (104°F) или ниже 10°C (50°F). / PL - Górny i dolny limit temperatury: Nie przechowywać i nie transportować urządzenia w temperaturach powyżej 40°C (104°F) i poniżej 10°C (50°F). / TR - Üst ve alt sıcaklık sınırları: Cihaz 40°C (104°F) üzerindeki veya 10°C (50°F) altındaki alanlarda saklamayın veya taşımayın. / AR - درجة فوقيات (أو أقل من) 40 درجة مئوية (104 درجة فهرنهايت) / KO - 상한 및 하한 온도 제한: 40°C (104°F) 이상 또는 10°C (50°F) 이하의 장소에 장치를 보관하거나 운반하지 마십시오. / ZH - 上和下温度极限: 请勿在 40°C (104°F) 以上或 10°C (50°F) 以下的区域储存或运输本设备。 / TH - ห้ามจัดเก็บหรือขนส่งอุปกรณ์ในอุณหภูมิที่ 40°C (104°F) หรือต่ำกว่า 10°C (50°F) / JA - 温度の上限と下限: 40°C (104°F) 以上または 10°C (50°F) 以下の場所で装置を保管または輸送しないでください。
	EN - Upper and lower relative humidity limitations: Store or transport the device in areas within the relative humidity range of 10 to 95%. / DE - Obere und untere relative Feuchtigkeitsbegrenzung: Lagern oder transportieren Sie das Gerät in Bereichen innerhalb des relativen Feuchtigkeitsbereichs von 10 bis 95%. / FR - Limites inférieures et supérieures de l'humidité relative : Entreposer ou transporter l'appareil en présence d'un taux d'humidité relative compris entre 10 et 95 %. / NL - Boven- en ondergrenzen voor relatieve vochtigheid: Bewaar of transporteer het apparaat op plaatsen met een relatieve vochtigheid tussen 10% en 95%. / ES - Limitaciones de humedad relativa superior e inferior: Almacene o transporte el dispositivo en áreas dentro del rango de humedad relativa de 10 a 95%. / PT - Limites de humidade relativa superior e inferior: Armazene ou transporte o dispositivo em áreas dentro do intervalo de humidade relativa de 10 a 95%. / SV - Övre och nedre relativ fuktighet-begränsningar: Förvara eller transportera enheten i områden med relativ luftfuktighet på 10 till 95 %. / DA - Begrænsninger i øvre og nedre relativ luftfugtighed: Opbevar eller transport apparatet inden for intervallet for relativ luftfugtighed på 10 til 95 %. / FI - Suhteellisen kostouden ylä- ja alarajotukset: Kuljetuksen ja varastoinnin aikana, alueen suhteellisen kostouden tulisi pysyä 10-95% välillä. / NO - Begrensninger for øvre og nedre relativ luftfuktighet: Opbevar eller transport enheten innenfor en relativ luftfuktighet fra 10 % til 95 %. / EL - Περιορισμοί ανώτερης και κατώτερης σχετικής υγρασίας: Αποθηκεύετε ή μεταφέρετε τη συσκευή σε σχετική υγρασία η οποία κυμαίνεται από 10 έως 95%. / RU - Верхний и нижний пределы относительной влажности. Хранить и транспортировать устройство следует в зонах с относительной влажностью в диапазоне от 10 до 95%. / PL - Górny i dolny limit wilgotności względnej: Przechowywać lub transportować urządzenie w warunkach wilgotności względnej od 10 do 95%. / TR - Üst ve alt bağıl nem sınırları: Cihaz, % 10 ila 95 bağıl nem aralığı içindeki alanlarda saklanı veya nakledin. / AR - حدود الرطوبة النسبية العليا والسفلى، قم بتخزين أو نقل الجهاز في المناطق داخل نطاق الرطوبة النسبية من 10 إلى 95% / KO - 상한 및 하한 상대 습도 제한 사항: 상대 습도 범위 10 ~ 95 % 범위 내에서 장치를 보관하거나 운반하십시오. / ZH - 上和下相对湿度极限: 请在处于 10 至 95% 的相对湿度范围内的区域储存或运输本设备。 / TH - ห้ามจัดเก็บหรือขนส่งอุปกรณ์ในอุณหภูมิที่ 1060 ถึง 500 hPa / JA - 相対湿度の上限と下限: 10～95% の相対湿度範囲内の場所で装置を保管または輸送してください。
	EN - Upper and lower atmospheric pressure limitations: Store or transport the device in areas within the atmospheric pressure range of 1060 to 500 hPa. / DE - Obere und untere atmosphärische Druckbegrenzung: Lagern oder transportieren Sie das Gerät in Gebieten im atmosphärischen Druckbereich von 1060 bis 500 hPa. / FR - Limites inférieures et supérieures de la pression atmosphérique : Entreposer ou transporter l'appareil en présence d'une pression atmosphérique comprise entre 1060 et 500 hPa. / NL - Boven- en ondergrenzen voor atmosferische druk: Bewaar of transporteer het apparaat op plaatsen met een atmosferische druk tussen 1060 hPa en 500 hPa. / IT - Limiti di pressione atmosferica superiore e inferiore: conservare o trasportare il dispositivo in aree con un intervallo di pressione atmosferica compreso tra 1060 hPa e 500 hPa. / ES - Limitaciones de presión atmosférica superior e inferior: Almacene o transporte el dispositivo en áreas dentro del rango de presión atmosférica de 1060 a 500 hPa. / PT - Limites de pressão atmosférica superior e inferior: Armazene ou transporte o dispositivo em áreas dentro da faixa de pressão atmosférica de 1060 a 500 hPa. / SV - Övre och nedre atmosfärstrycksbegränsningar: Förvara eller transportera enheten i områden med atmosfärstryck mellan 1 060 och 500 hPa. / DA - Øvre og nedre atmosfæriske trykbegrænsninger: Opbevar eller transport apparatet i områder inden for atmosfærisk tryk mellem 1 060 og 500 hPa. / FI - Ilmakehän paineen ylä- ja alarajotukset: Kuljetuksen ja varastoinnin aikana, alueen ilmakehän paineen tulisi pysyä 1060-500 hPa välillä. / NO - Øvre og nedre atmosfæriske trykkbegrænsninger: Opbevar eller transport enheten innenfor et atmosfærisk trykk fra 1060 til 500 hPa. / EL - Ανώτατο και κατώτερο όριο ατμοσφαιρικής πίεσης: Φυλάσσετε ή μεταφέρετε τη συσκευή σε περιохές με εύρος ατμοσφαιρικής πίεσης από 1060 έως 500 hPa. / RU - Верхний и нижний пределы атмосферного давления. Хранить или транспортируйте устройство следует в зонах с атмосферным давлением от 1060 до 500 ГПа. / PL - Górny i dolny limit ciśnienia atmosferycznego: Przechowywać lub transportować urządzenie w warunkach ciśnienia atmosferycznego od 1060 do 500 hPa. / TR - Üst ve alt atmosfer basıncı sınırları: Cihaz, 1060 ila 500 hPa arasındaki atmosferik basıncı aralığındaki alanlarda saklanı veya nakledin. / AR - الحدود العليا والسفلى للضغط الجوي: قم بتخزين أو نقل الجهاز في المناطق داخل نطاق الضغط الجوي من 1060 إلى 500 هكتوباسكال. / KO - 상한 및 하한 대기 압력 제한: 대기압 범위가 1060 ~ 500 hPa인 영역에서 장치를 보관하거나 운반하십시오. / ZH - 上和下环境压力极限: 请在处于 1060 至 500 百帕的大气压力范围内的区域储存或运输本设备。 / TH - ห้ามจัดเก็บหรือขนส่งอุปกรณ์ในอุณหภูมิที่ 1060 ถึง 500 hPa / JA - 大気圧の上限と下限: 1060～500 hPaの大気圧範囲内の場所で装置を保管または輸送してください。

	EN - Keep Dry: Cargoes bearing this symbol must be protected from excessive humidity and must be stored under cover. / DE - Trocken lagern: Ladungen, die dieses Symbol tragen, müssen vor übermäßiger Feuchtigkeit geschützt werden und müssen bedeckt aufbewahrt werden. / FR - Garder au sec : Les cargaisons désignées par ce symbole doivent être protégées contre l'humidité excessive et bûchées. / NL - Droog houden: Ladingen met dit symbool moeten tegen overmatige vochtigheid worden beschermd en moeten onder een afdekking worden bewaard. / IT - Mantenere asciutto: la merce con questo simbolo deve essere protetta da umidità eccessiva e deve essere conservata al coperto. / ES - Mantener seco: Las cargas que llevan este símbolo deben estar protegidas de humedad excesiva y deben almacenarse bajo protección. / PT - Manter seco: As cargas que ostentem este símbolo devem ser protegidas de humidade excessiva e devem ser armazenadas sob cobertura. / SV - Förvaras torrt: Gods som är försedd med denna symbol måste skyddas mot för hög fuktighet och måste förvaras under tak. / DA - Opbevares tørt: Fragt med dette symbol skal beskyttes mod for høj luftfugtighed og skal opbevares under dække. / FI - Pida kuivana: Tällä merkillä varustettu rahti on suojattava liialliselta kosteudelta ja säilytettävä suojan alla. / NO - Oppbevares tørt: Last med dette symbolet må beskyttes mot for høy fuktighet og lagres under tak. / EL - Διατηρείτε στεγνό: Τα φορτία που φέρουν αυτό το σύμβολο πρέπει να προστατεύονται από υπερβολική υγρασία και πρέπει να αποθηκεύονται κάτω από κάλυψη. / RU - Хранить в сухом месте. Грузы, на которых нанесен этот символ, необходимо защищать от повышенной влажности и хранить в укрытии. / PL - Chronić przed wilgocią: Ładunki oznaczone tym symbolem muszą być zabezpieczone przed nadmierną wilgotnością i muszą być przechowywane pod osłoną. / TR - Kuru Olarak Muhafaza Edin: Bu sembolü taşıyan kargo her şartta nemden korunmalı ve kapalı yerde saklanmalıdır. / AR - يحفظ جاف: يجب حماية البضائع التي تحمل هذا الرمز من الرطوبة المفرطة ويجب تخزينها بعيداً تحت المطر. / KO - 건조 유지: 이 기호가 표시된 화물은 과도한 습도로부터 보호되어야 하며 밀개 아래에 보관해야 합니다. / ZH - 保持干燥: 带有此符号的货物必须防止过度潮湿, 而且必须储存于盖棚中. / TH - รักษาความแห้ง: ภาชนะบรรจุสินค้าที่ติดสัญลักษณ์นี้ควรวางในที่แห้งและปิดฝาให้สนิท / JA - 乾燥状態の維持: この記号が付いている貨物は、過度の湿気から保護する必要があり、カバーの下で保管してください。
	EN - This device to be used only by trained dental or medical professionals. / DE -Dieses Gerät darf nur von ausgebildeten Zahn- oder medizinischen Fachkräften benutzt werden. / FR - Cet appareil à été conçu uniquement pour les professionnels dentaires ou médicaux qualifiés. / NL - Dit apparaat mag alleen worden gebruikt door opgeleide tandheelkundige of medische zorgverleners. / IT - Questo dispositivo deve essere utilizzato solo da professionisti dentali o medici esperti. / ES - Este dispositivo debe ser usado solamente por profesionales dentales o médicos capacitados. / PT - Este dispositivo deve ser utilizado apenas por profissionais dentários ou médicos treinados. / SV - Denna apparat ska endast användas av utbildade tandläkare eller sjukvårdspersonal. / DA - Denne enhed må kun anvendes af uddannede tandlæger eller læger. / FI - Tätä laitetta saa käyttää vain koulutetut hammas-/lääketehteen ammattilaiset. / NO - Denne enheten skal kun brukes av odontologisk eller medisinsk fagpersonell. / EL - Αυτή η συσκευή πρέπει να χρησιμοποιείται μόνο από εκπαιδευμένους οδοντίατρος ή επαγγελματίες υγείας. / RU - Это устройство должно использоваться только квалифицированными стоматологами или медицинскими работниками. / PL - To urządzenie może być używane wyłącznie przez przeszkolonych stomatologów lub lekarzy. / TR - Bu cihaz sadece eğitimli diş hekimleri veya tıp uzmanları tarafından kullanılmalıdır. / AR - هذا الجهاز يستخدم فقط من قبل المهنيين الطبيين ومهنيي الأسنان. / KO - 이 장치는 숙련된 치과 전문가 또는 의료 전문가만 사용할 수 있습니다. / ZH - 本设备只准由经过培训的牙科或医护人员使用. / TH - อุปกรณ์นี้ควรใช้โดยทันตแพทย์หรือบุคลากรทางการแพทย์เท่านั้น / JA - この装置は、訓練を受けた歯科または医療専門家のみが使用できます。
	EN - Serial Number / DE - Seriennummer / FR - Numéro de série / NL - Seriennummer / IT - Numero di serie / ES - Número de serie / PT - Número de série / SV - Serienummer / DA - Serienummer / FI - Sarjanumero / NO - Serienummer / EL - Σειριακός αριθμός / RU - Серийный номер / PL - Numer seryjny / TR - Seri Numarası / AR - الرقم التسلسلي / KO - 일련번호 / ZH - 序列号 / TH - หมายเลขลำดับ / JA - シリアル番号
505 W. Ultradent Drive (10200 South) South Jordan, UT 84095	EN - Manufacturer - Manufacturing address. / DE - Hersteller - Herstellungsadresse. / FR - Fabricant - Adresse de fabrication. / NL - Fabrikant - Productieadres / IT - Fabbricante - Indirizzo di fabbricazione. / ES - Fabricante - Dirección de fabricación. / PT - Fabricante - Endereço de fabricação. / SV - Tillverkare - Tillverkningsadress. / DA - Producent - Producentadresse. / FI - Valmistaja - Valmistajan osoite. / NO - Produzent - Produksjonsadresse. / EL - Κατασκευαστής - Διεύθυνση κατασκευής. / RU - Изготовитель - адрес изготовителя / PL - Producent - adres zakładu produkcyjnego. / TR - Üretici - Üretim adresi. / AR - - عنوان المصنعة - الشركة المصنعة. / KO - 제조업체 - 제조 주소. / ZH - 制造商 - 制造地址. / TH - ผู้ผลิต - โรงงานผลิต. / JA - メーカー - 製造住所。
	EN - This marking indicates the correct method of inserting batteries. / DE - Dieses Diagramm gibt die korrekte Methode zum Einlegen von Batterien an. / FR - Ce symbole indique la méthode correcte d'insertion des piles. / NL - Deze marking geeft de juiste manier aan waarop de batterijen moeten worden geplaatst. / IT - Questo contrassegno indica il metodo corretto per inserire le batterie. / ES - Esta marca indica el método correcto de poner las pilas. / PT - Esta marcação indica o método correto de inserção das baterias. / SV - Denna märkning anger rätt metod för insättning av batterier. / DA - Denne markering angiver den korrekte metode til indsettelse af batterier. / FI - Tämä merkintä osoittaa oikean asennustavan. / NO - Denne merkingen indikerer riktig metode for å sette inn batterier. / EL - Αυτή η ομπόνια υποδεικνύει τη σωστή μέθοδο εισαγωγής των μπαταριών. / RU - Эта маркировка означает правильный способ установки элементов питания. / PL - Oznaczenie to wskazuje prawidłową metodę wkładania akumulatorów. / TR - Bu işaret pillerin doğru biçimde takıldığını gösterir. / AR - - تشير هذه العلامة إلى الطريقة الصحيحة لإدخال البطاريات. / KO - 이 표시는 올바른 배터리 삽입 방법을 나타냅니다. / ZH - 该标记表示正确插入电池的方法. / TH - การใส่แบตเตอรี่ควรใส่ตามวิธีที่แสดง / JA - このマークは、電子を正しく挿入する方法を示しています。



EN - UL Mark. This device complies with UL safety requirements for Canada and the United States. Medical equipment with respect to electrical shock, fire, and mechanical hazards only in accordance with UL60601-1. / **DE** - UL Markierung Dieses Gerät entspricht den UL-Sicherheitsanforderungen für Kanada und den Vereinigten Staaten. Medizinisches Gerät in Bezug auf Elektroschock, Feuer und mechanische Gefahren nach UL60601-1. / **FR** - Marque UL. Cet appareil est conforme aux exigences de sécurité UL pour le Canada et les États-Unis. Matériel médical en matière de risques mécaniques, de décharges électriques et d'incendie uniquement dans le respect de la norme UL60601-1. / **NL** - UL-markering Dit apparaat voldoet aan de veiligheids-eisen van UL voor Canada en de Verenigde Staten. Medische apparatuur uitsluitend met betrekking tot elektrische schok, brand en mechanische gevaren volgens UL 60601-1. / **IT** - Marchio UL. Questo dispositivo è conforme ai requisiti di sicurezza UL per il Canada e gli Stati Uniti. Apparecchiatura medica classificata in base a sosse elettriche, incendi e pericoli meccanici solo in conformità con la norma UL60601-1. / **ES** - Marca UL. Este dispositivo cumple con los requisitos de seguridad de UL para Canadá y los Estados Unidos. En lo que respecta a descargas eléctricas, incendios y riesgos mecánicos, el equipo médico solo es conforme a UL60601-1. / **PT** - Marca UL. Este dispositivo está em conformidade com os requisitos de segurança da UL para o Canadá e os Estados Unidos. Equipamento médico em relação a choques elétricos, incêndio e perigos mecânicos apenas em conformidade com a UL60601-1. / **SV** - UL-märkning. Denna enhet överensstämmer med UL:s säkerhetskrav för Kanada och USA. Medicinsk utrustning med avseende på risker för elektriska stötar, brand och mekaniska faror endast i enlighet med UL60601-1. / **DA** - UL-mærke. Denne enhed overholder UL's sikkerhedskrav for Canada og USA. Medicinsk udstyr med hensyn til elektrisk stød, brand og mekaniske farer bare i samsvær med UL60601-1. / **EL** - Τίμωση UL. Αυτή η συσκευή συμμορφώνεται με τις απαιτήσεις ασφαλείας UL για τον Καναδά και τις Ηνωμένες Πολιτείες. Ιατρικός εξοπλισμός σε σχέση με ηλεκτροπληξία, πυρκαγιά και μηχανικούς κινδύνους μόνο σύμφωνα με το UL60601-1. / **RU** - UL Mark. Это устройство удовлетворяет требованиям безопасности UL в США и Канаде. Медицинское оборудование удовлетворяющее требованиям стандартов UL60601-1 в отношении поражения электрическим током, возгорания и механического удара. / **PL** - Znak UL. To urządzenie spełnia wymagania bezpieczeństwa UL dla Kanady i USA. Sprzęt medyczny w odniesieniu do porażenia prądem elektrycznym, pożaru i zagrożeń mechanicznych tylko zgodnie z normą UL60601-1. / **TR** - UL İşareti. Bu cihaz Kanada ve Amerika Birleşik Devletleri için UL güvenli gereksinimlerine uygundur. Elektrik çarpması, yangın ve mekanik tehlikeler açısından sadece UL60601-1 uyumca tıbbi ekipman. / **AR** - UL60601-1 مع متطلبات السلامة لكندا والولايات المتحدة فيما يتعلق بالصدمة الكهربائية والحرائق، والخطار الميكانيكية فقط هذا. / **KO** - UL 마크. 이 장치는 캐나다 및 미국의 UL 안전 요구 사항을 준수합니다. 감전, 화재 및 기계적 위험에 대해서 UL60601-1만을 준수한 의료장비. / **ZH** - UL 标志。本设备符合加拿大和美国 UL 的各项安全要求。仅在电击、火灾和机械危害方面符合 UL60601-1 的医用设备。 / **TH** - เครื่องหมาย UL อุปกรณ์ทางการแพทย์ที่สอดคล้องกับข้อกำหนดด้านความปลอดภัย UL สำหรับแคนาดาและสหรัฐอเมริกา อุปกรณ์ทางการแพทย์ที่สอดคล้องกับข้อกำหนดด้านไฟฟ้า ไฟไหม้ และอันตรายจากเครื่องจักรของ UL60601-1 เท่านั้น. / **JA** - UL マーク。この装置は、カナダと米国のUL安全規格に準拠しています。感電、火災、および機械的危険性に関する医療機器は、UL60601-1に準拠している場合にのみ使用してください。



U.S. federal law restricts this device to sale by or on the order of a dentist.
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refer to Ultradent's catalog or call toll free 1-800-552-5512.
Outside U.S. call +1-801-572-4200 or visit www.ultradent.com.

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