

ASCENT™ OL5

CORDED 5 LED CURING LIGHT.
OWNER'S MANUAL.

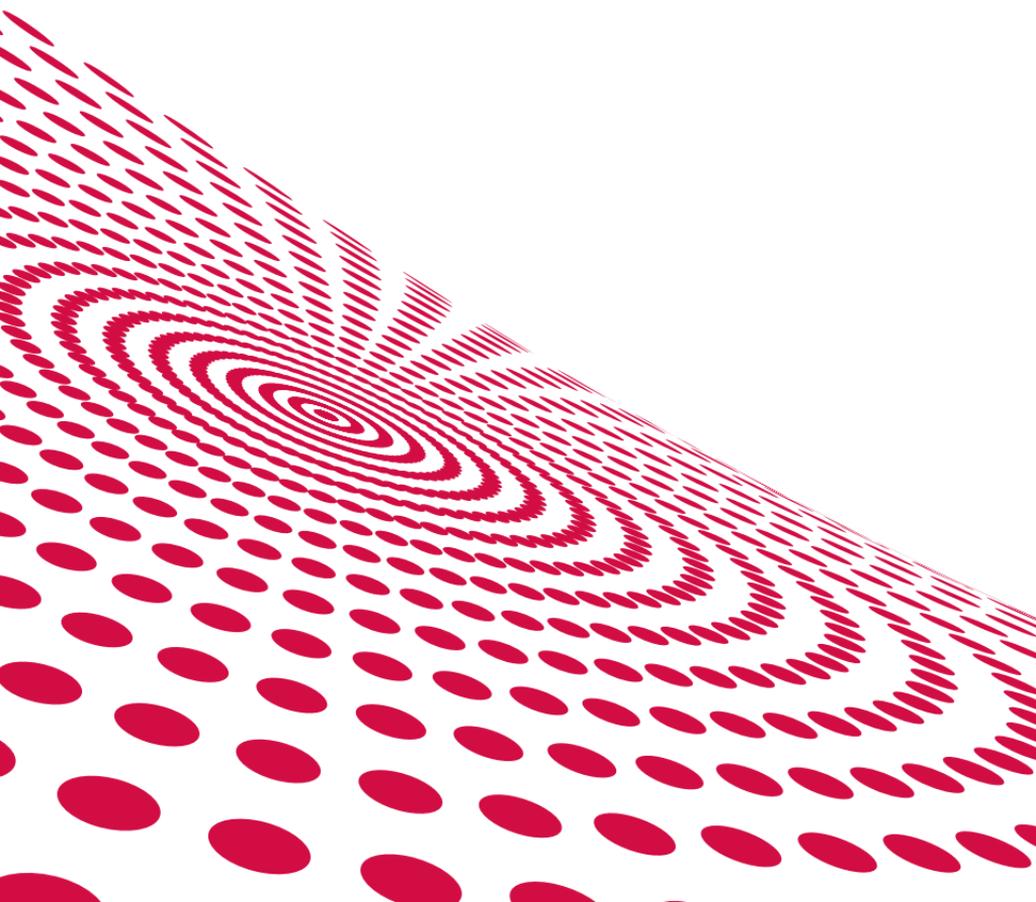


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DISCLAIMERS

Before operating this unit, read all instructions carefully. 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.

PRECAUTIONS

Do not attempt to separate cord from handpiece by twisting or otherwise. This is a sealed unit and opening will invalidate the warranty and could damage the unit.

This light is designed for curing dental resins. Do not use it for continuous operation, such as for tooth bleaching.

Light- The Ascent OL5™ curing light emits an extremely high intensity light. Ensure the light-emitting end of the curing handpiece is placed in the oral cavity and over the area to be cured before the light is turned on. We recommend always using a protective orange shield.

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, simply unplug the unit and plug it back in.

LED Inspection- While using a protective orange shield, inspect the light emitting end of the curing handpiece every week to verify that all LEDs are operating correctly.

Important Note- Steam: Do not autoclave the Ascent OL5™ curing unit or immerse it in disinfectant or cleaning solutions. All Ascent LED curing lights may be wiped with an appropriate disinfectant towelette or sprayed with a disinfectant and then wiped dry with a cloth.

PRODUCT INFORMATION

The Ascent OL5™ LED Curing Light is for use by the general practitioner and is well-suited for use in the orthodontic office. The 5 LED head cures from several angles at the same time, even around brackets for a more complete cure. Like all CAO LED curing lights, our patented technology cures all photoinitiators used in dentistry today for a complete cure of any material. Ascent OL5 is easy to use with timer presets of 10, 20, 30, and 40 seconds. The slim design allows easy access to all areas of the mouth, even the distal surface of third molars.

This curing unit produces high intensity light in the UV and visible spectrum range of 377 to 490 nanometers. The Ascent OL5™ uses five (5) Light Emitting Diodes (LEDs) to produce a high intensity 10 x 13 mm oval footprint. This LED curing unit produces a wider band width than most other LED curing lights. This produces curing results comparable to quality halogen light but without the high heat and short bulb life.

ASCENT OL5™ FEATURES INCLUDE:

- Broad Spectrum Emission - combination of LEDs ensures complete curing of all composites and resin adhesives.
- Slim Design - the lightweight slim design is easy to use, provides access to all areas of the mouth, and fits into your handpiece holder when you are done.
- Corded Power - optimal light output is delivered all the time. No worries about batteries dying.
- Multi-LED Head - cures from several angles.
- Powerful Light Intensity - comparable to quality halogen units; minimal heat generation.
- Curing Mode - 10, 20, 30 or 40 seconds.
- Tacking Soft Cure Mode - 1, 2, 3 or 4 seconds.
- Patented Technologies - more than 10 U.S. and international patents in this light.

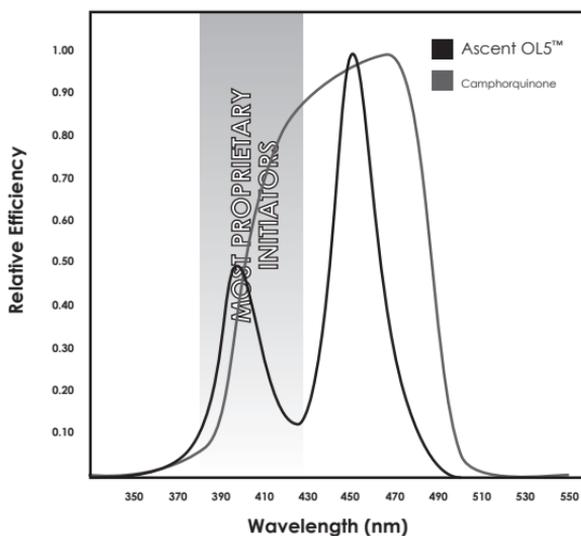
ASCENT OL5™ COMPLETE KIT INCLUDES:

- Curing Light Handpiece with Cord
- 100 - 240 V Power Supply Unit (attached)
- Universal Plug Adapters
- Disposable Barrier Sleeves

Energy from the Ascent OL5™ Curing Light does travel through porcelain to cure underlying resin to a similar degree as that of a quality halogen curing light.

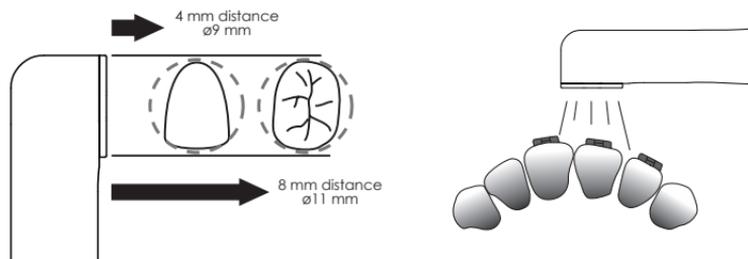
Unlike common halogen curing lights, the Ascent OL5™ does not generate wavelengths outside the range needed to cure most dental materials. Light outside of the initiators range is useless light and heat. Subsequently, the depth of cure in the Ascent OL5 is equivalent to that of quality halogen lights.

Emission/Absorption



LED 5

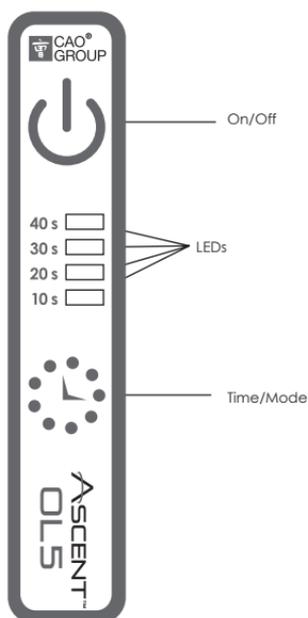
The LEDs are uniquely set into a reflector which focuses the light into a footprint that approximates the natural shape of teeth, requiring fewer cures than traditional, round light guides. It also cures well in a Class II box as well as at the surface. The curing light footprint dimensions of Ascent OL5™ are approximately 10 x 13 mm making it ideal for use in placing orthodontic brackets, setting light-cured cements from the bracket margins around all sides of the bracket.



OVERVIEW OF CONTROLS AND CONNECTIONS

CURING LIGHT TIMER CONTROLS

The unit beeps once when powering on and twice when powering off. The light will shut off automatically when the time entered has expired. LEDs between the buttons indicate how much curing time the unit is set for. If more time is required, depress and release the time button until desired time is displayed.



STEP-BY-STEP SET-UP PROCEDURE

1. Remove curing light handpiece, cord, and power supply from box. Attach the appropriate adapter blades to the power supply if needed.
2. Plug the multi-voltage power supply into any 100-240 volt receptacle.
3. Depress the time button to increase the curing time in 10 second increments to a maximum of 40 seconds. Each illuminated time indicating LED represents 10 seconds of cure time in normal curing mode and 1 second curing time in the tacking Soft Cure mode.
4. To enter or exit the tacking Soft Cure mode, press and hold the time button and then press the power button and release both buttons simultaneously. The time indicating LEDs will flash while the unit is in the tacking mode.
5. Press the power on/off pad once to activate the curing light. The time indicating LEDs will successively turn off with the passing of each ten second curing increment.

AUXILIARY USES

TACKING SOFT CURE MODE

This is one of the few LED curing lights to implement a tacking mode. In this mode a clinician is able to set the light for cure times of 1, 2, 3 or 4 seconds. This allows for composites and adhesives to only briefly cure or tack after each layer of composite or adhesive is placed. After all layers of composite have been placed and final anatomy and finishing are complete, a final cure of 20 seconds on each buccal, lingual, and occlusal surface will achieve complete polymerization, resulting in a more wear-resistant surface.

DISPOSABLE BARRIER SLEEVES

Transparent, disposable barrier sleeves are provided to aid infection control. Testing showed no significant difference in spectral and energy output when operating with or without a barrier sleeve in place.

CLEANING

The Ascent OL5™ Curing Light is sealed so it can be surface cleaned and disinfected using an appropriate disinfectant towelette or cloth soaked in surface disinfectant. Below is a partial list of suggested surface disinfectants:

- Glutaraldehyde
- Chlorhexidine gluconate
- 70% Isopropyl alcohol

TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
Light won't turn on.	Power cord not plugged in firmly.	Plug unit in firmly.
	Power control pad not depressed.	Depress power control pad.
	Exposed to strong magnetic/static field.	Unplug unit and plug in again.
Light doesn't stay on as long as expected.	Incorrect time selected.	Turn unit off, reprogram time.
Light doesn't come on after time entered.	Power control pad not depressed.	Depress power control pad.
	Exposed to strong magnetic/static field.	Unplug unit and plug it in again.
Needs service.		Call +1 877 236 4408 or your local sales representative.

Any service beyond the solutions listed above should be performed by authorized personnel only or the warranty on this product becomes invalid. In the event further assistance is required to repair this unit, call: **+1 877-236-4408**.

ADDITIONAL PRODUCTS AND ACCESSORIES

PRODUCT DESCRIPTION	PART #
Ascent OL5™ Complete Kit	001-00018
Ascent OL5™ Disposable Barrier Sleeves- REFILL (250 PK)	001-00057
Protective Glasses, Orange	001-00019

Contact your sales representative or call **+1 877-236-4408**

TECHNICAL INFORMATION

CURING LIGHT HANDPIECE

Wavelength Range: 377 - 490 nm output

Total Weight: 11 oz/15 oz

Light Intensity: >800 mW/cm²

Length of Cord: 7.5 ft

Duty Cycle: 40 seconds on, 80 seconds off

WALL PLUG ADAPTER

Power Unit: Multi-Voltage, 2-Prong plug. Kit includes Universal Power Adapter blades.

DIMENSIONS:

Length: 80 mm

Width: 52 mm

Depth: 70 mm

Output: +9 VDC @ 2.0 A

Electrical Rating: 100 - 240 VAC ~ 50/60 Hz @ 0.4 A

LEGEND:



Class II Equipment



Attention: Read accompanying documentation



Type BF applied part

IPX4

Splash Resistant

CAO GROUP, INC.® LIMITED WARRANTY

The CAO Group® guarantees that the Ascent OL5™ curing light system will be free from manufacturing defects for the space of two (2) years from the date of purchase. Should the unit be found to contain said defects, the CAO Group will repair said defects or replace the unit, at the discretion of CAO Group, at no cost to the customer.

This warranty shall not cover damage or defect caused by misuse, accident, improper handling or actions contrary to those indicated in this manual, regardless of the date of purchase. This warranty applies solely to the original purchaser and is not transferable.



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