

ASCENT™ PX

CORDLESS LED CURING LIGHT SYSTEM.
OPERATOR'S MANUAL.

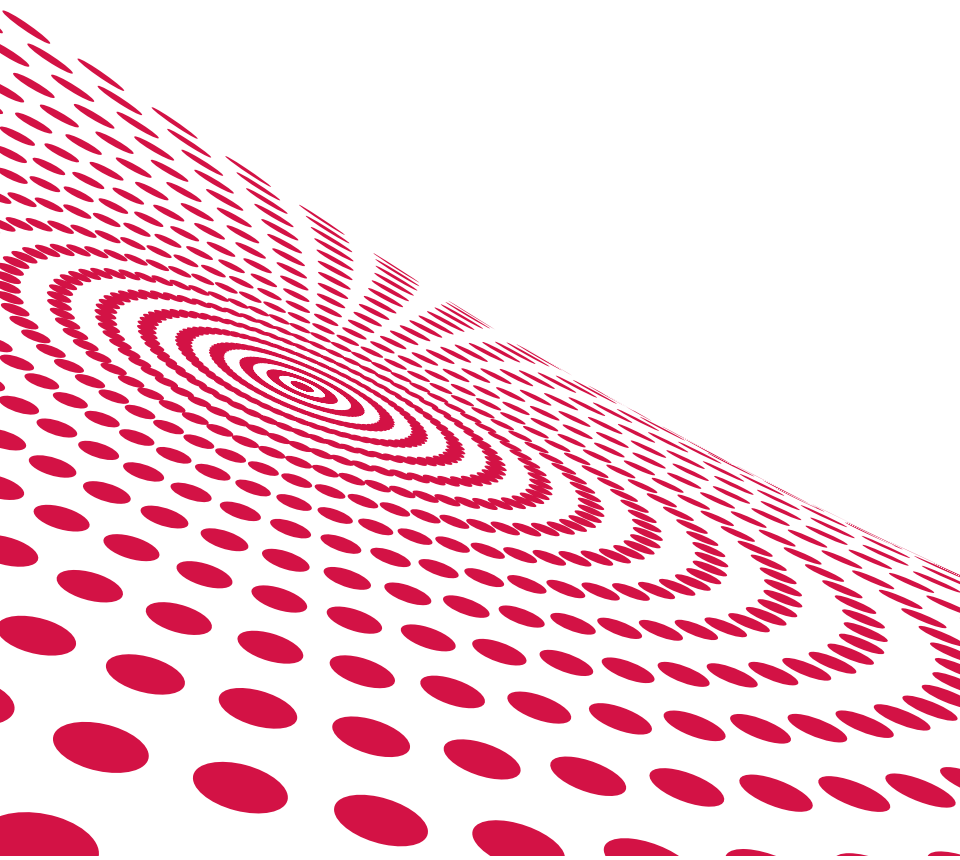


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DISCLAIMERS

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. In case of any questions or concerns, please feel free to contact us.

PRECAUTIONS

Do not use undo force against any of the lenses as this could dislodge them. This is a sealed unit and opening it will invalidate the warranty.

This product is specifically designed for use in dentistry and dental related applications for the polymerization of dental materials. This system must only be used by a dental professional that is appropriately licensed and trained to use polymerization light sources, according to the requirements of national and local regulations. This system should only be used in an enclosed dental operatory or similar medical facility.

Light- The Ascent™ PX 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 the enclosed protective amber shield or the orange glasses (not included).

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.

Important Note: Steam - Do not autoclave the Ascent™ PX 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.

LED Inspection- While using the amber shield or wearing UV protective orange glasses, inspect the light emitting end of the curing handpiece periodically to verify that all LEDs are operating.

SAFETY OVERVIEW

This product generates light at an intensity and wavelength great enough that protection of the eyes is necessary. DO NOT shine the light directly without protective shield/glasses into anyone's eyes. DO NOT look directly at the LED emitters when the light is on. In addition to the amber shield, appropriate filter glasses rated for protection against light in the 377 - 490 nm range may be worn by all persons in the room when the Ascent™ PX is being used. The light generated from the Ascent PX may have adverse effects on the retina and cornea of the eye. The damage may be acute in nature or chronic exposure over a long period of time may have an adverse and irreversible affect. The Ascent PX emits energy in the 377 - 490 nm wavelength. The lower end of this range is in the ultraviolet (UV) range. Accordingly, there may be an adverse affect of the light on exposed skin. DO NOT shine the Ascent PX directly onto exposed skin. When using the light, activate and deactivate the light inside the oral cavity.

A number of symbols are used both on the device and throughout this manual. It is important that you understand the meaning of each one, so that when encountered you will be familiar with the type of information that is being expressed.

OVERVIEW OF CONTROLS



ATTENTION: Important information is being presented. Refer to the Operator's Manual for more information.



HIGH INTENSITY LIGHT: Protect your eyes from the light generated by this product.



SHOCK HAZARD: Beware of electrical shock or injury.



CLASS II MEDICAL EQUIPMENT



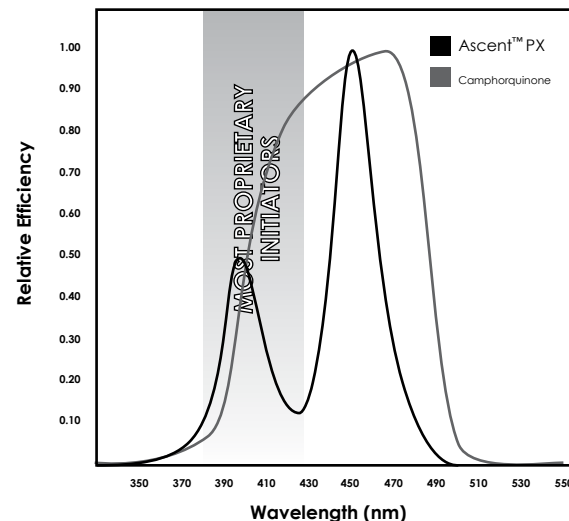
TYPE B APPLIED PART



ELECTRONICS WASTE: Properly dispose of when use is discontinued.

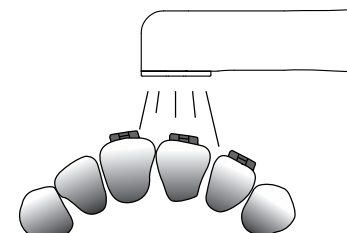
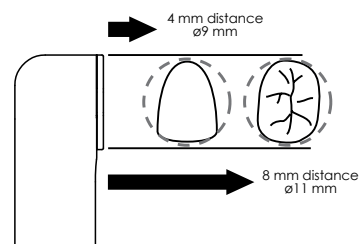
Energy from the Ascent™ PX Curing Light does travel through porcelain to cure underlying resin to a similar degree as that of a quality halogen curing light. Unlike common halogen curing lights, the Ascent PX does not generate wavelengths outside the range needed to cure most dental materials. Light outside of the initiators range is useless light and heat. Subsequently, the depth of cure in the Ascent PX is equivalent to that of quality halogen lights.

Emission/Absorption



LED LIGHT PATTERN

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 the Ascent™ PX are approximately 9 x 11 mm making it ideal for use in placing orthodontic brackets, setting light cured cements from the bracket margins around all sides of the bracket.



PRODUCT INFORMATION

Ascent™ PX LED Curing Light is simply the finest dental curing light available today.

- **Easier** – 4 program settings, each with audible tone, and user-friendly controls enables easy operation so you stay focused on the patient.
- **Faster** - 1500 mW/cm² light intensity with a spectral output of 377 - 490 nm means you can cure any dental material using any photoinitiator available today to cure fast and completely.
- **Better** – powerful, complete curing and an easier to use light results in better restorations.

Plus, the sleek wand with low profile head easily accesses all areas of the mouth and can be swiveled 360° for easy use without hand fatigue. The Ascent™ PX is designed to fit all standard handpiece holders so you can keep it on your delivery unit with all of your dynamic instrumentation. Its long-life lithium ion battery enables you to cure nearly 200 full-powered cycles, more than 3 days of use, before recharging it in just 2 hours. The Ascent Charging Station will charge up to 3 Ascent curing lights at the same time and can be located away from the operator, keeping workspace free of clutter and making infection control procedures simpler and faster.

ASCENT™ PX FEATURES INCLUDE:

- **1500 mW/cm² light intensity** – Cure quickly, deeply, fully.
- **Dual spectral output of 377 - 490 nm** – Cure any dental material with any photoinitiator available today.
- **4 programmed settings** - Adjust Ascent™ PX for the way you restore teeth, for the materials you use.
- **Battery cycle** - 200 cycles at STANDARD mode, 10 seconds per cycle; 135 cycles at STANDARD mode, 20 seconds per cycle
- **Fits standard handpiece holders** – Ascent PX is designed to be located where you need it - on your delivery unit.
- **The Ascent Charging Station** – use it in the operator or the back room to free up counter space; charge up to 3 Ascent lights at one time.

PRODUCT COMPONENTS

ASCENT™ PX COMPLETE KITS INCLUDE:

- Ascent™ PX Curing Light Handpiece
- PX Wand Attachment
- Ascent Charging Station
- Wall Plug-In Power Supply
- (50) Disposable Barrier Sleeves
- Protective Shield w/ Grommet

Use only components and accessories that are specifically designed for use with the Ascent™ PX system. Components of the Ascent PX are not compatible with other curing light systems.

INITIAL SET UP

Remove the contents from the shipping package. Be careful not to drop or impact the curing light. Choose a flat, level surface to place the charging cradle on.



- Before using the Ascent PX curing light for the first time, the unit must be fully charged. Charge time will take approximately 5 hours the first time.
- Use only the power supply furnished with the Ascent™ PX Complete Kit or an Ascent™ Charging Station. Attempting to use another power supply source may cause injury or damage and will void the warranty.

STEP-BY-STEP SET-UP PROCEDURE

1. Remove curing light handpiece, wand, power cord, and recharging station (Complete Kit only) from box. Attach the appropriate wand to the handpiece.
2. Plug the connector of the power supply into the back of the charging station or plug into the bottom end of the Ascent™ PX handpiece. Plug the other end of the power supply into the appropriate electrical outlet. For first use, allow to charge fully (approximately 5 hours).
3. Select the appropriate mode necessary to your procedure. See Modes section on page 6.
4. Select curing time. Curing time can be selected to run at 5, 10, 15 or 20 second intervals for all modes, with the exception of the BOOST mode which can only run at 5 second intervals. See Modes section on page 6.
5. The Ascent PX LED Curing Light features a "sleep" state. When not in the charging cradle or attached to the power supply, if the unit has not been used for more than five (5) minutes, the display will turn off to conserve power. If the display is not illuminated, simply pick up the unit or move it to bring it out of sleep state.
Note: when the Ascent PX is placed in a handpiece holder, the movement of the delivery unit may cause it to move in and out of the sleep state; this is normal.
6. Since the wand can be rotated 360°, it could be used both as a wand style with thumb operation or gun style with index finger operation.
7. Put on the disposable barrier sleeves onto the wand and ensure proper fit to eliminate wrinkles.
8. Ensure all persons in the room, including the patient, are wearing the appropriate eye protection.



OPERATION

Once the time and mode are set, position the head of the Ascent™ PX wand over the site and press the  (READY) button. Once the cycle is complete, the unit will automatically turn the LED off. If needed, the READY button can be pressed again to deactivate the light before the curing cycle is complete.

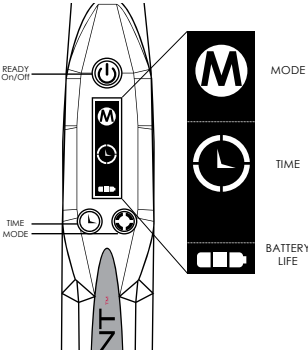


- Always use the settings recommended by the manufacturer of the dental material when selecting the settings for the Ascent™ PX.

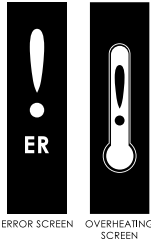
MODES

	BOOST MODE: A boost mode is provided for additional power to the LEDs, helping them generate a higher power intensity up to 2000 mW/cm². Since the LEDs function at such high power level, only the 5 second curing cycle is provided to avoid premature LED failure.
	STANDARD MODE: The light intensity is at a steady 1500 mW/cm².
	RAMP MODE: There is a steady increase of the intensity from 0 to 1500 mW/cm² in the first 4 seconds then remains constant.
	PULSE MODE: The light output is pulsed 10 times per second, giving a net effect of half the power output as the standard mode.

KEYPAD AND DISPLAY



MAIN SCREEN



There are three buttons on the unit for timer selection, mode selection and the READY (On/Off) respectively.

The READY (On/Off) button is used to activate and deactivate the LEDs. Push once to start the cycle and turn on the LEDs and push it again if you need to turn it off at any time during the curing cycle.

When plugged in or placed in the Charging Station, the unit will enter a **CHARGING** screen. See Battery Status and Cord Indicator on page 7.

Be aware that the unit does generate heat and with multiple curing cycles in rapid succession, especially in BOOST mode, the built-in temperature sensor may activate causing the **OVERHEATING** screen to appear. If this occurs, place the unit in the charging cradle or on the counter and wait at least 5 minutes before trying to use the unit again. This is to protect the lifespan of the LEDs.

In the event of a problem or error, your unit may see an **ERROR** screen as indicated on the left. If this happens, please refer to the Troubleshooting chart on pages 9 and 10. Contact your local sales representative or call +1 877 236 4408.

BATTERY STATUS AND CORD INDICATOR

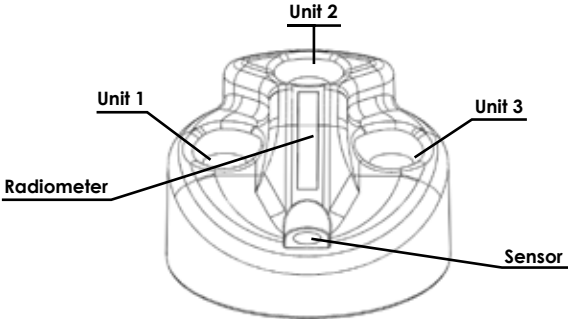
The battery indicator on the Ascent™ PX shows the current status of the battery.

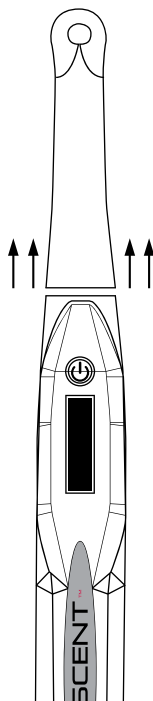
	Battery Empty – The entire battery icon blinks when the battery is drained. Attach the power supply cord or place the unit in the charging cradle immediately. The unit may cease to illuminate in this situation. Please allow at least 2 minutes after charging starts before attempting to use the unit again.
	Battery Low – The battery is almost empty. Conclude the current procedure, then attach the power supply cord or place the unit in the cradle. NOTE: The Ascent PX is designed to maintain full light intensity, even at low battery power.
	Battery Medium – The battery is not fully charged, but still has numerous use cycles available. Monitor the battery status as needed through the course of the procedure or throughout the day.
	Battery Full – The battery is at full capacity.
	Charging Battery – The battery charger is attached and is charging.
	Charged – The battery charger is attached and is fully charged.

The Ascent™ PX may be used with the power supply attached to the handle, even if the battery is low. While in this configuration, the battery will charge while the unit is not being used. While charging, the CHARGING SCREEN will illuminate. To exit out of this screen and return to your MAIN SCREEN, simply press your READY (On/Off) button. When the battery is fully charged, the BATTERY-FULL INDICATOR will illuminate and remain on.

ASCENT™ CHARGING STATION WITH BUILT-IN RADIOMETER

The Ascent™ Charging Station incorporates a built-in power meter, allowing you to see how well your Ascent PX is performing. The power meter is not intended to measure the performance of the PULSE mode. Select one of the other modes and set the timer for 5 seconds. Place the head of the Ascent PX over the sensor and activate the light. The power meter will illuminate, showing relative power output. In CONTINUOUS and RAMP modes, two (2) green bars are acceptable. In the BOOST mode, the power meter will show a blue bar above the green ones, indicating the BOOST mode is working at a higher power than the other modes.





INTERCHANGEABLE WANDS

The wand portion of the Ascent™ PX may be removed and a replacement wand put in its place. Make sure the power supply is disconnected from the unit before replacing the wand. To remove the wand, simply grasp the wand firmly and pull it away from the lower handle portion. Make sure the power button is not inadvertently pressed while performing this action.

Attach the replacement wand by inserting the connector into the top of the handle. Make sure you push the head all the way against the handle to ensure a secure connection. To position the head to the desired angle, simply rotate the wand of the Ascent™ PX unit. The wand can rotate in either direction. This helps the operator achieve easy access to remote areas of the oral cavity without causing unwanted discomfort or stress to the operator or patient. Put on a disposable barrier sleeve and ensure it fits without wrinkles.

ASCENT™ PX

The Ascent™ PX is designed for your practice. It will fit all standard hand-piece holders so you can keep it on your delivery unit with all of your dynamic instrumentation. Its lithium ion battery enables 200 cycles at STANDARD mode, 10 seconds per cycle; 135 cycles at STANDARD mode, 20 seconds per cycle. The Ascent Charging Station recharges up to 3 Ascent PX curing lights at the same time and can be placed in the back room to keep operatories free of clutter and making infection control procedures simpler and faster.

DISPOSABLE BARRIER SLEEVES

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

CLEANING

The Ascent™ PX is a state-of-the-art electronic device. To prevent unnecessary damage to the unit and to the power supply, these care and cleaning guidelines must be followed. The Ascent PX curing light is sealed so it can be surface cleaned and disinfected using an appropriate disinfectant towelette or a cloth soaked in surface disinfectant. Below is a partial list of suggested surface disinfectants:

- Glutaraldehyde
- Chlorhexidine gluconate
- 70% Isopropyl alcohol
- Water-based phenolics
- Dual or synergized quaternary ammoniums

DO NOT use harsh abrasives. DO NOT autoclave or otherwise sterilize these components. The amber shield provided may be immersed in the solution but DO NOT autoclave or otherwise sterilize.

TROUBLESHOOTING

PROBLEM	CAUSES	SOLUTIONS
The wand or handle is getting hot.	Unit has been used for too many consecutive cycles.	Place the Ascent™ PX unit in the Charging Station or set the unit on the counter and allow it to cool down for 5 minutes.
Power output indicated on the Charging Station does not match the results from another power meter.	The Charging Station power meter is not a quantitative measuring device.	The power meter incorporated into the Charging Station is meant as a simple diagnostic tool only. It is calibrated to the output performance of the Ascent™ PX Curing Light line. Other curing lights may not give similar results on the Ascent PX's power meter as the Ascent PX. Due to the round shape and dispersion angle of the PX, the power measured on another power meter may not be accurate.
The power meter does not show a green bar when the output is measured.	Ascent™ PX wand is not placed in the sensor correctly.	Make sure the Ascent™ PX head is resting securely in the sensor, with the head resting against the sensor face.
	Ascent™ PX is in the PULSE mode.	Do not measure the power output in Pulse mode. Select another mode to measure the power output.
I can't select the time in BOOST mode.	Timer function is not available in BOOST mode.	If more time is desired, either use the BOOST mode repeatedly at the 5 second curing cycle, or select another function and choose the desired curing time.
I press READY (On/Off) but no light comes out.	Wand is not attached properly.	Make sure the head is fully seated into the handle, such that the head connector is not visible.
I have been using the unit for several cycles and it suddenly stopped working.	Temperature overload sensor has activated.	The Ascent™ PX is equipped with a temperature overheat sensor to protect the LEDs from excessive heat. If this occurs, simply place the unit in the Charging Station or on the counter and allow the unit to cool off for at least 5 minutes.
	Battery is empty.	The battery has been drained of its stored energy. Place the unit in the Charging Station or attach the power supply to the handpiece.
Error Message - E1	Battery is empty.	Attach the power supply cord and allow at least 2 minutes to get above the minimum charge OR Recharge a minimum of 2 hours.

PROBLEM	CAUSES	SOLUTIONS
Error Message - E2	Overheating	Unit has overheated. Allow to cool at least 5 minutes.
Error Message - E3	Wand not connected	Light wand is either not present or not fully seated. Make sure wand is on the handle and fully seated (you can feel the 'click' when properly seated).
Error Message - E4	LED Emissions Malfunction	An error has occurred with the electronics. Allow unit to sit undisturbed for 10 minutes. If error continues, unit needs servicing.
Error Message - E5	Electronics Malfunction	An error has occurred with the electronics. Allow unit to sit undisturbed for 10 minutes. If error continues, unit needs servicing.

If these steps do NOT solve the problem, contact your dealer or point of purchase. Any service beyond the solutions listed above should be performed by authorized personnel only or the warranty on this product becomes invalid or serious injury may result. In the event further assistance is required to repair this unit, call: **+1 877-236-4408**.

ADDITIONAL CURING LIGHT PRODUCTS

PRODUCT DESCRIPTION	PART NUMBER
Ascent™ PX - Disposable Barrier Sleeve- REFILL (250 PK)	001-00058
Ascent™ PX Protective Shield	001-00060
Ascent™ Charging Station Kit	001-00051
Ascent™ PX Complete Kit	001-00049
Ascent™ PX Light Kit	001-00050
Ascent™ PX Replacement Wand	001-00052
Ascent™ OL5 Complete Kit	001-00018
Ascent™ OL5 Disposable Barrier Sleeve- REFILL (250 PK)	001-00057
Protective Glasses, Orange	001-00019

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

TECHNICAL INFORMATION

Dimension (in mm)	L: 240 x D: 30
Range of Light (in nm)	377 - 490
Light Intensity at the Tip (mW/cm²)	1200 - 1500
Weight (in grams)	220
Sleep Mode	After 90 seconds of inactivity.
Battery Life	200 cycles at STANDARD mode, 10 seconds per cycle; 135 cycles at STANDARD mode, 20 seconds per cycle.
Charging Time to Complete	5 Hours
Battery Type	Lithium Ion
Cradle Battery	Rechargeable
Operating Temperature	15 - 30°C (60 - 86°F); Unit turns off automatically when the temperature at the wand tip reaches 48° C
Power Input, Curing Light	12 VDC @ 2.0 A
Power Input, Power Supply	90 - 240 VAC @ 50 - 60 Hz
Pulse Rate	10 Hz
Pulse Duty Cycle	50%
Storage and Transport Conditions	0 - 40°C (32 - 104°F) 0 - 100% RH -1000 to + 9000 meters elevation

ELECTROMAGNETIC COMPATIBILITY

Guidance and Manufacturer's Declaration - Electromagnetic Emissions		
The Ascent™ PX is intended for use in the electromagnetic environment specified below. The customer or user of the Ascent™ PX should assure that it is used in such an environment.		
Emissions Test	Compliance	Notes
RF Emissions CISPR 11	Group 1	The Ascent™ PX uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF Emissions CISPR 11	Class B	--
Harmonic Emissions IEC 61000-3-2	Not Available	--
Voltage Fluctuations/ Flicker Emissions	Not Available	--
The Ascent™ PX is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.		

ELECTROMAGNETIC COMPATIBILITY CONTINUED

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

The Ascent™ PX is intended for use in the electromagnetic environment specified below. The customer or user of the Ascent PX should assure 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	± 6 kV Contact ± 8 kV Air	± 6 kV Contact ± 8 kV Air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%
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 Not Applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV differential mode ± 2 kV common mode	± 1 kV differential mode ± 2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles >5% UT (>95% dip in UT) for 5 seconds	<5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles >5% UT (>95% dip in UT) for 5 seconds	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Ascent™ PX requires continued operation during power mains interruptions, it is recommended that the Ascent™ PX be powered from an uninterrupted power supply or a battery.
(50/60 Hz) Magnetic Field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

Note: UT is the a.c. mains voltage prior to application of the test level.

Guidance and Manufacturer's Declaration - Electromagnetic Immunity

The Ascent™ PX is intended for use in the electromagnetic environment specified below. The customer or the user of the Ascent PX should assure that it is used in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 3 V/m 80 MHz to 2.5 GHz	3 Vrms 3V/m	Portable and mobile RF communications equipment should be used no closer to any part of the Ascent™ PX, including cables, than recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance: $d = [3.5/V] \sqrt{P}$ $d = [3.5/E] \sqrt{P} \text{ 80 MHz to 800 MHz}$ $d = [7/E] \sqrt{P} \text{ 800 MHz to 2.5 GHz}$...where 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, should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol: 

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.

*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 the fixed RF compliance level above, the Ascent™ PX should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Ascent™ PX.

*Over the frequency range of 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended Separation Distances Between Portable and Mobile RF Communications Equipment and the Ascent™ PX

The Ascent™ PX is intended for use in an electromagnetic environment in which the radiated RF disturbances are controlled. The customer or the user of the Ascent PX can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Ascent PX as recommended below, according to the maximum output power of the communications equipment.

Rated Maximum Output Power of Transmitter (W)	150 kHz to 80 MHz $d = [3.5V] \sqrt{P}$	80 MHz to 800 MHz $d = [3.5E] \sqrt{P}$	800 MHz to 2.5 GHz $d = [7E] \sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.37	0.37	0.74
1	1.17	1.17	2.33
10	3.69	3.69	7.39
100	11.67	11.67	23.33

For transmitters rated at a maximum output power not listed above, the recommended separation distance in **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.

CAO GROUP, INC. LIMITED WARRANTY

The CAO Group® guarantees that the purchased equipment/system will be free from manufacturing defects for the two (2) years from the date of purchase. 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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