
DENTAL CURING LIGHT

LEDEX™ WL-090+

COMBO OF CURING LIGHT & PLAQUE/CARIES DETECTOR



Instructions for use

One Touch, And You Will Enjoy The Powerful Light



Dear Customer,

Thank you for choosing DENTMATE LEDEX™ WL-090+ Dental curing light.

A lot of researches & developments have gone into the manufacturing of this product. We sincerely hope that it will give you many years of trouble-free use. Please read and understand all the instructions before using this equipment, and save this manual for your reference.

The manual is subject to change without further notice.



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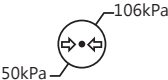
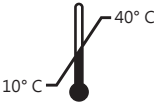
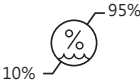


1. Symbols Used

1.1. In these instructions for use



If the instructions are not followed properly, the operations may lead to hazards for the product or the user/patient.

1.2. On the product/packaging

 Serial number	 Catalogue number
 Manufacturer	 Date of manufacture
 Class II (AC Adapter)	 Consult the instructions for use
 This shows the Type B applied part.	 Do not dispose it with normal household waste
 Recycling	IPX0 Ordinary equipment
 EU-representative	 Atmospheric pressure for storage
 Temperature limits	 Storage humidity range
 CE marking	 Keep dry

2. Product Information

The light has been manufactured with a super-high luminosity 10 W LEDs. The light wavelength of LEDEX™ WL-090+ is between 390-480nm and the intensity is up to 1800mW/cm². It can cure the composite over 2mm in 3 seconds. These characteristics especially enable to phenyl propanedione (PPD) and Lucirine TPO photoinitiator.

LEDEX™ WL-090+ dental curing light is characterized by :

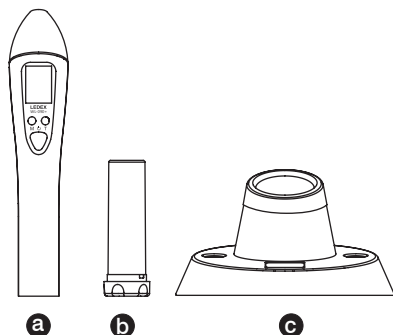
- Seven powerful extensive modes including Low, Ramp, Standard, High, Fast Ortho, Plaque inspect and Caries inspect modes.
- The turbo light guide rod is made from genuine optical fiber and not inferior acrylic that optimizes light conduction and minimizes loss of light from source to tip. Therefore, it ensures the highest possible intensity of light at the light guide tip.
- Advanced and high efficient cooling heat sink are designed and accompanied with over temperature protection. A thermal protection circuit and safety mode are also designed to protect the light from overheating.
- The automatic memorization of the last operation is another unique feature of the light.
- There is display built-in radiometer and auto sleep designs for saving the energy of the battery.

2.1. Indications for use

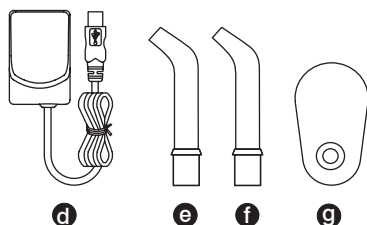
LEDEX™ WL-090+ is a visible curing unit programmed for polymerization of dental light cured materials by dental professionals.

FOR DENTAL USE ONLY!

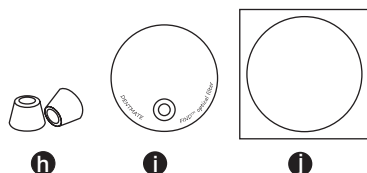
2.2. System components



Item	Description	Quantity
a	LEDEX™ WL-090+ Handpiece	1
b	Battery (3.7 V/2500 mAh)	1
c	Cradle	1



d	Power supply(Input AC100~240 V, 1 50-60 Hz, output DC5 V/2 A)	
e	Optical fiber light guide rod- (Ø 11>8 mm)	1
f	Optical fiber light guide rod- (Ø 11>5 mm)	1
g	Filter	1



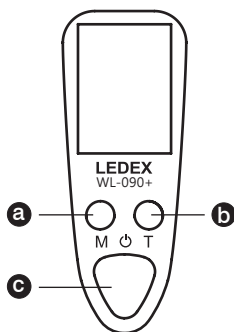
h	Anti-glare shield	2
i	*FIND™ Optical filter	1
j	*FIND™ Mirror	1

*FIND™: Fluorescence Inspect and Determine system



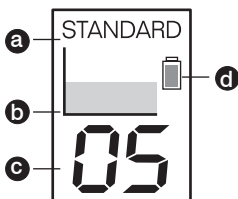
k	Disposable curing light sleeves	10
l	Disposable light guide sleeves	20
m	Instructions for use	1

2.3. Features



- a** MODE : Pressing this button sequentially toggles the unit through the seven curing modes.
- b** TIME : Pressing this button sequentially toggles the unit through the serial curing time.
- c** ON-OFF : Pressing this button initiates the selected curing cycle. Pressing this button during the cure cycle will interrupt or end the cycle. If the unit is in the sleep mode, pressing this button will awaken the unit of the curing mode which is last used.

2.4. Display



The display allows different information required by the user.

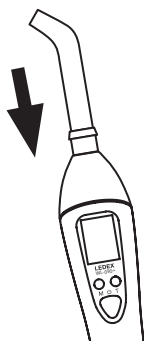
As shown above, it comprises different zones identified from top to bottom as follows:

- a** A display of the curing mode selected.
- b** The output mode icons represent the type of light emission.
- c** There's a display in seconds of the duration of the selected curing cycle. During operation, this countdown display indicates the remaining activation time until the current cycle is completed.
- d** A battery charge level indicator is symbolized by a ladder with 0 to 5 levels and charging status.

2.5. Installation and charging

Startup

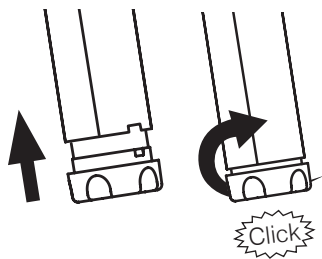
On receipt of the unit, any damages may occur during transportation. If necessary, contact your supplier.



Handpiece

First of all, it is essential that the sterilizable accessories which includes the light guide and protective shield are sterilized and the unit base is disinfected (see chapter 7).

Remove the protective caps from the handpiece which should to be kept during maintenance to prevent the liquid products from damaging the LEDs. Then and insert the sterilized light guide into the handpiece. Ensure the light guide is properly inserted.

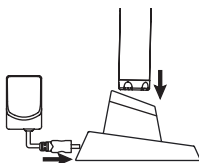


Battery

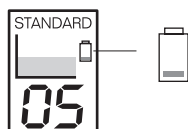
We recommend you to charge the battery fully before the first use.

Put the battery into the handpiece and rotate in the clockwise direction until you hear the sound and feel it clicked into the right place.

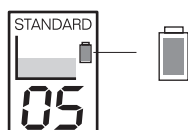
Ensure all the segments of the display are shown. The battery supplied is only charged to about 60% prior to shipment. Each time, charge it fully before using it.



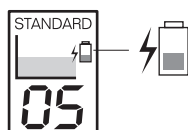
1. Connect the power supply to AC100~240 V electronic socket and plug-in the connector to the cradle. Put the handpiece into the cradle to charge the battery.



2. When the battery is in a low status, the display of the handpiece will glow and show the of low battery sign.



3. When the battery is fully charged, the display of the handpiece will glow and show the of full battery sign.










4. When the battery is charging, the display of the handpiece will glow and show the sign of charging battery.

2.6. Operating modes

Each time, disinfect surfaces of the curing light, light probes and, anti-glare cones before using.

Select curing programs and curing time. The curing programs and the curing time can be individually set. LEDEX™ WL-090+ is equipped with the following 7 curing programs for different indications. Use the mode selection buttons to choose the curing programs. The display will change accordingly (see Indicators on the handpiece). The device comes equipped with the following preset programs :

Factory settings

Icon	Mode	Curing time duration (sec)	Intensity of light
	LOW	10,20,30,40	600 mW/cm ² (+/-15%)
	RAMP	5,10,15,20,25,30,35,40	1000 mW/cm ² (+/-10%)
	STANDARD	5,10,15,20,25,30,35,40	1000 mW/cm ² (+/-10%)
	HIGH	2,4,6,8,10	1800 mW/cm ² (+/-10%)
	FAST ORTHO	3,4,5 repeat 10 times	1800 mW/cm ² (+/-10%)
	PLAQUE INSPECT	no timer selected 30 seconds setting only	250 mW/cm ² (+/-15%)
	CARIES INSPECT	no timer selected 30 seconds setting only	350 mW/cm ² (+/-15%)

Light intensity

Recommended Curing Time (on STANDARD mode)

Fill Materials	Curing time
Universal composite (2 mm depth)	10 seconds
Universal composite (4 mm depth)	20 seconds

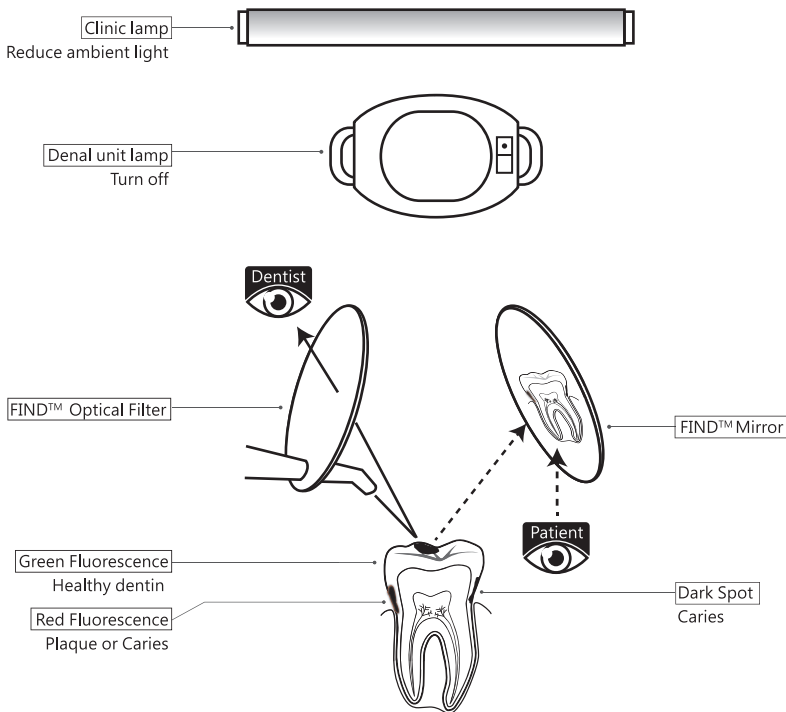
**Generally, these recommendations apply to situations. The emission window of the light probe is placed directly over the material in order to be polymerized. Extend the curing time accordingly to increase the distance between the light source and the material.

Recommended curing modes

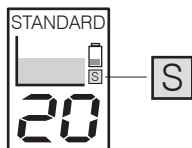
Mode	Application
LOW	Tooth and composite resin
RAMP	Wide area of composite resin, avoid shrinkage.
STANDARD	Most cases.
HIGH	For orthodontic or pediatric dentistry,
FAST ORTHO	Band materials
PLAQUE INSPECT	Ideal for dental plaque inspect. The location of plaque or tartar will be changed to red of fluorescence.
CARIES INSPECT	Ideal for caries inspect. The location of caries which has caries bacteria will be changed to red of fluorescence. If you see the dark spot, it also is caries.

Tips

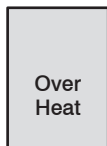
- While using plaque or caries inspect, please put on 5 mm light guide rod, it is the best size to check plaque and caries in dark environment and observe the pure violet wavelength output through FIND™ optical filter, you can see easily and immediately where excavation of caries is.
- While using plaque or caries inspect, please turn off dental unit lamp and reduce ambient light of clinic, it will avoid other sources of light to ensure that the distinction between red and green fluorescence is clearly maintained. The plaque & caries area will be displayed on red fluorescent results.
- While using plaque or caries inspect, patient can hold the FIND™ Mirror, patient is easy to see their plaque or caries via the mirror.



Safety status :



When LEDEX™ WL-090+ is operated frequently for long periods of time, the temperature may become too high ,so the “Safety” mode function will then be activated automatically to protect the light. The safety mode cuts the light intensity in approx. half and extends the irradiation time.



When the temperature becomes quite high, the display of handpiece will glow and show the sign of “Over Heat”.

Auto sleep designed :

LEDEX™ WL-090+ will sleeps automatically if no operations are performed for three minutes, the display will be turn off.

2.7. Maintenance

Prevention of cross infection, cleaning, disinfection and storage.

The use of the sleeve is an additional precautionary measure against contamination and does not substitute disinfection of the device.

After using, remove the sleeve. Disinfect the light guide and handpiece with commercial alcohol based surface disinfecting solution. Keep solvents or flammable liquids away from the unit cause they may damage its plastic housing.

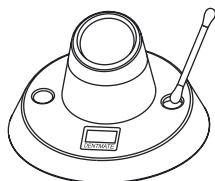
Always keep the charger, handpiece and light guide well. The moisture may cause electrical short-circuit or dangerous malfunction.

Test the Light Guide Attachment with the Radiometer

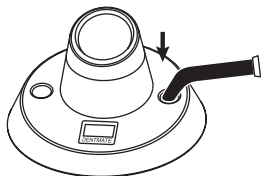
Verify the LEDEX™ WL-090+ performance each time before using the radiometer which is built into the cradle.



1. The curing time interval should exceed 5 seconds for each cycle.



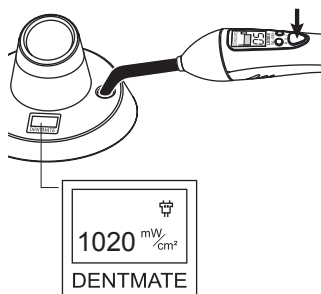
2. Verify the radiometer sensor which can impact the accuracy of the measurement. The surface of sensor area can be wiped with a cotton swab with alcohol.



3. Carefully hold the unit, so the Light Guide Attachment is flushed with the radiometer sensor and centered within the white circle provided.

Tips:

Optical fiber light guide must be horizontal alignment in the middle of the sensor area.



4. While holding the unit steadily, press and release the ON-OFF Button. In response to the bright light, the radiometer will provide a reading of the light intensity.

5. Wait till the light is off before moving the Light Guide Attachment away from the radiometer sensor.

3. Contraindications

For patients who are prone to photobiological reactions :

Do not use the LEDEX™ WL-090+ dental curing light for patients with a history of photobiological reactions (including patients with Urticaria solaris or erythropoietic protoporphyria) or those who currently have treatments with photosensitising pharmaceuticals.

4. Warnings



4.1. User

The handpiece is intended for the polymerization of light-cured materials and is used by trained and qualified professionals, such as dentists.



4.2. Ambient conditions

Do not place the device in humid surroundings or any places which are close to any liquids.

Do not expose the device to any heat sources. Store the device in a safe environment.

- The device could be operated up to a maximum temperature of 35 °C and up to an altitude of 2,000 m above sea level.
- Do not use the device in the presence of free oxygen, anesthetics or flammable substances.
- The device may interfere or be interfered with by the radio or the operation of the equipment nearby. If this happens, reduce the interference by reorienting and repositioning the device or screening off the immediate environment. The electromagnetic radiation emitted from this device is below the recommended limits specified by the applicable relevant provisions (EN 60601-1-2:2007 & EN 60601-1:2006).
- The device requires special precautions with regard to electromagnetic compatibility (EMC) and it must be installed and operated in strict compliance with the EMC information. Especially, do not use the device in the vicinity of fluorescent lamps, radio transmitters, remote controls, portable or mobile RF communication devices, even if they meet CISPR 8 requirements.
- Do not charge, operate or store the device at high temperatures. Comply with the specified operating and storage conditions.



4.3. To avoid electric shock (shock hazard)

The LEDEX™ WL-090+ Dental Curing Light is an electric device designed to meet the worldwide electrical safety standards, which includes U.S.A. and Europe, so it's safe and effective for all dental applications.

To avoid electric shock:

- Do not attempt to open or alter the unit in any way. Only the service centers authorized by DENTMATE can open the unit housing and repair the device.
- Do not put any foreign objects into the housing of the unit.
- Use only the LEDEX™ WL-090+ cradle when recharging this product. Never attempt to use any other devices for recharging.
- Connect the power plug into a suitably grounded and approved outlet. When you use an extend cable, make sure the grounded line is not interrupted.
- Always unplug the charging dock before disinfecting.
- Never use the power supply if the cord has been damaged.



4.4. Heat development (burn hazard)

As it is the case with all high-performance lights, the high light intensity results in a certain heat development. Prolonged exposure near the pulp and soft tissues may result in irreversible or reversible damage. Therefore, this high-performance curing light must be operated by trained professionals.

Note : At least 10 mm gap between soft tissues and optical fiber light guide rod.



4.5. Battery

Use only original spare parts, particularly DENTMATE batteries and charging bases. Do not short circuit battery. Do not store at temperatures above 40 °C / 104 °F (or 60 °C / 140 °F for a short period). Always store batteries charged. The storage period must not exceed 6 months. It may explode if it's disposed of in fire.



4.6. Accessories

Only use original DENTMATE components/accessories and spare parts :

Original DENTMATE accessories	DENTMATE REF
LEDEX™ WL-090+ Handpiece	3102-1001
Battery (3.7 V/2500 mAh)	2101-0010
Cradle	3102-2001
Power supply (Input AC100~240 V, 50-60 Hz, output DC5V/2 A)	2103-0008
Optical fiber light guide rod-(Ø 11>8 mm)	2402-0007
Optical fiber light guide rod-(Ø11>5 mm)	2402-0009
Filter	2101-0013
FIND™ Optical filter	2102-0011
FIND™ Mirror	2102-0013
Anti-glare shield	1220-0004
Disposable light guide sleeves	2401-0001
Disposable curing light sleeves	2401-0005

Using other accessories/spare parts may lead to increased emission of electromagnetic interference or to reduced electromagnetic interference immunity.



4.7. Repairs and defects

Do not use the device if you suspect its damage or defect.



4.8. Transport

Intact devices can be transported by land freight or air freight in the original packaging. The applicable requirements must be met. Defective devices can also be transported by air freight or land freight in the original packaging. If the battery is defective, the device won't be able to be transported by air freight under any circumstances.

5. Precaution

5.1. During operation, the light should be aimed straightly on the resin to ensure solidification effectively.

5.2. Never aim the light directly at unprotected soft tissues because this may lead to injury or irritation. Do not aim the light at eyes. Light reflected from the tooth surface may also injure eyes. Use the protective shield supplied with the unit or suitable, light filtering safety glasses.

6. Troubleshooting

Problem	Resolution
Do not turn on the handpiece	Remove the battery and insert it again. If the error persists, please plug-in the power supply to cradle and charge the battery at least 10 mins. Then push the ON/OFF button again.
Do not charge the battery	Please clean battery contacts. If the error persists, please change a new battery.
Display show overheat sign	If the temperature rises up to a really level, please wait a moment and then use it again.
The intensity is too low	If the result of intensity test in Standard mode is under 700 mW/cm^2 , and the output is too low, please contact with your dealer.

7. Cleaning, Disinfection and Sterilization

This product must be disinfected as normal preparation for each patient. Read this entire section before cleaning the unit. Failing to follow these cleaning guidelines could cause damage.

The plastic of the handpiece, cradle and filter should be cleaned with a wet cloth, while the optical light guide rod should be cleaned with alcohol or put it in autoclave for disinfection. Remember to use autoclave $134^\circ\text{C}/75 \text{ psi}$ for maximum result. The disinfection time at 134°C should be 5 minutes. A disposable curing sleeve available from your dealer may be used as protection over the optical light guide rod without loss of light intensity.

8. Disposal

Comply with your national regulations, guidelines and requirements for the disposal of end-of-life electrical equipment and batteries. Specialized dental dealers will be pleased to provide you with country-specific information concerning disposal.











This device is provided with a Li-ion battery. For environmental reasons, please dispose of the device according to local environmental guidelines or regulations. Make sure the product or the battery is not mixed with other types of waste when it is disposed of. Prior to disassembly and disposal, your device has to be completely reprocessed and must not be contaminated.

9. Warranty

DENTMATE TECHNOLOGY Co., Ltd. warrants the product to be free of manufacturing defects for a period of one year from the date of purchase; this is deemed as the date of the invoice. It could be repaired or replaced at its own discretion all equipment failures due to manufacturing defects. However, the followings are expressly excluded from the warranty:

1. Damage and/or failure of the equipment caused by falling and/or jolting during transportation after purchase and/or during the normal use.
2. Damage and/or failure of the equipment caused by natural disasters, such as earthquakes, floods, lightning, pollution, incorrect electrical voltage and voltage spikes.
3. Any attempts to open the hand piece will invalidate the warranty.

10. Product Specifications

Type of Information	Specifications
Dental curing light	Medical equipment
Device name	LEDEX™
Model number	WL-090+
Power supply	Input: AC100~240 V, 50-60 Hz Output: DC 5 V/2 A
Battery	3.7 V, 2500 mAh, type: Li-ion
Light source	10 W LED
The range of wavelength	390 ~ 480 nm, peak: 405, 460 nm
Radiant intensity	Up to 1800 mW/cm ²
Hand piece dimensions	Ø38 (max.) x L190 mm
Hand piece weight	180 g (with battery & light guide rod)
Cradle dimensions	Ø115 (max.) x H68 mm
Cradle weight	140 g
Equipment class (AC Adapter)	Class II
Safety	IEC 60601-1
EMC(Electro-Magnetic Compliance)	IEC 60601-1-2
Protection from electric shock	Type B applied part
Protection from ingress of liquids	IPX0
Operation	Continuous operation patient application, duty cycle 40 seconds ON / 120 seconds OFF on STANDARD mode.
Operating environment	<p>Ambient temperature:  10° C ~ 40° C  50° F ~ 104° F</p> <p>Relative humidity:  30% ~ 75%</p> <p>Atmospheric pressure:  0.5-atm ~ 1.0-atm  50kPa ~ 106kPa</p>
Storage and transport environment	<p>Ambient temperature:  10° C ~ 40° C  50° F ~ 104° F</p> <p>Relative humidity:  10% ~ 95%</p> <p>Atmospheric pressure:  0.5-atm ~ 1.0-atm  50kPa ~ 106kPa</p>

11. Emc Declaration Of Conformity

Important information regarding Electro Magnetic Compatibility (EMC) with the increased number of electronic devices such as PC's and mobile (cellular) telephones, medical devices in use may be susceptible to electromagnetic interference from other devices. Electromagnetic interference may result in incorrect operation of the medical device and create a potentially unsafe situation. Medical devices should not interfere with other devices, too.

In order to regulate the requirements for EMC (Electro Magnetic Compatibility) with the aim to prevent unsafe product situations, the EN60601-1-2:2007 standard has been implemented. This standard defines the levels of immunity to electromagnetic interferences as well as maximum levels of electromagnetic emissions for medical devices.

This medical device manufactured by DENTMATE conforms to this EN60601-1-2:2007 standard for both immunity and emissions. Nevertheless, special precautions are needed to be observed:

- Do not use mobile (cellular) telephones and other devices which generate strong electrical or electromagnetic fields near the medical device. This may result in incorrect operation of the unit and create a potentially unsafe situation. Keep a minimum distance of 7 m. Verify correct operation of the device in case the distance is shorter.

Further documentation in accordance with EN60601-1-2:2007 is available within this manual referring to section "Manufacturer's Declaration".

12. Manufacturer's Declaration


The LEDEX™ WL-090+ is intended for use in the electromagnetic environment specified below. The customer or the user of the LEDEX™ WL-090+ should assure that it is used in such an environment.

Electromagnetic Emissions: (IEC60601-1-2)

Emission Test	Compliance	Electromagnetic Environment
RF emission CISPR 11	Group 1	The LEDEX™ WL-090+ uses RF energy only for internal functions. Therefore, this RF emission is extremely weak and there is little chance of it creating any kind of interference whatsoever with nearby electronic equipment.
RF emissions CISPR 11	Class A	
Harmonic emissions IEC 61000-3-2	Class B	The LEDEX™ WL-090+ 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 used for domestic purposes.
Voltage fluctuations/ flicker IEC 61000-3-3	Complies	

(IEC60601-1-2)Electromagnetic Immunity:

Immunity test	IEC60601-1-2 test level	Compliance level	Electromagnetic environment-guidance
Electrostatic discharge 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 %.
Electric fast transient/burst IEC 61000-4-4	± 2kV for power supply lines ±1 kV for input/output lines	±2 kV for power supply lines ±1 kV for input/output lines	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 for 0.5 cycle	<5 % UT for 0.5 cycle	Mains power quality should be that of a typical commercial or hospital environment. If the user of the LEDEX™ WL-090+ requires continued operation during power mains interruptions, it is recommended that the LEDEX™ WL-090+ be powered from an uninterruptible power supply or a battery.
	40 % UT for 0.5 cycle	40 % UT for 0.5 cycle	
	70 % UT for 0.5 cycle	70 % UT for 0.5 cycle	
	<5 % UT for 5 sec.	<5 % UT for 5 sec.	
Power frequency (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 atypical commercial or hospital environment.
Note: UT is the a.c. mains voltage prior to application of the test level.			

Immunity test	IEC60601-1-2 test level	Compliance level	Electromagnetic environment-guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz 80 %AM(2 Hz)	3 Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the LEDEX™ WL-090+, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommend separation distance $d = 1.2 \sqrt{P}$ 150 kHz to 80 MHz $d = 1.2 \sqrt{P}$ 80 MHz to 800 MHz $d = 2.3 \sqrt{P}$ 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).
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz 80 %AM(2Hz)	3 V/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 

Note1 : At 80 MHz and 800 MHz, the higher frequency range applies.

Note2 : 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 fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the LEDEX™ WL-090+ is used exceeds the applicable RF compliance level above, the LEDEX™ WL-090+ should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the LEDEX™ WL-090+.
- Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended Separation Distances:

Recommended separation distance between portable and mobile RF communications equipment and the LEDEX™ WL-090+			
The LEDEX™ WL-090+ is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the LEDEX™ WL-090+ can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the LEDEX™ WL-090+ as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter (W)	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d = 1.2 \sqrt{P}$	80 MHz to 800 MHz $d = 1.2 \sqrt{P}$	800 kHz to 2.5 GHz $d = 1.2 \sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be determined 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.			
Note1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies			
Note2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

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