

INSTRUCTION MANUAL





D.LUX+

English 4
Français 22



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Overview



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1. Overview

Thank you for choosing **D.LUX+**, DiaDent's cordless LED light curing unit. With a stylish design and a wireless charging method, **D.LUX+** is an innovative curing light that reliably produces high light intensity using the dual wavelength technology. This technology enables various complex resin polymerization as the maximum value of the wavelength matches the absorption wavelength of Camphorquinone (CQ). This ensures effective polymerization of various resin materials.

Characteristics:

- · Cordless and ergonomic design for ease of use
- Dual-wavelength LED allows various resin composite polymerization
- High light intensity power of 2,400 mW/cm² enables reduction of curing time and application diversity
- Various modes are provided for user convenience
- High capacity battery of 2,600mAh allows extended operation time

This manual provides detailed description of operation and set—up methods. Please read this manual carefully before using the **D.LUX+**. In addition, be sure to keep this manual in a readily accessible place for quick and easy reference.

Indications for Use

D.LUX+ is intended for polymerization of light-cured materials such as resin composite material, restorative dental material, orthodontic brackets, bonding and sealing material that can be polymerized in the wavelength range of 385~515 nm.

Safety Instructions

2. Safety Instructions

To reduce the risk of injury, always follow manufacturer's cautions listed below as well as other warnings and precautions throughout this manual.

/!\ CAUTION

Caution(s) indicates information, which could result in serious injury to the patient and/or the operator and damage to the device, if not followed properly.

WARNING

- 1. The electromagnetic waves or other medical equipment in hospitals and clinics can cause malfunction of this device.
- 2. Do not use this device on patients with pacemakers.
- 3. To reduce the risk of electric shock, do not try to open, disassemble or repair the hand-piece, battery pack, or the charger base. Use only the charger and battery pack supplied by DiaDent.
- 4. Do not modify this equipment without authorization of the manufacturer.
- 5. Do not use this device in the presence of explosive and flammable materials to prevent a possible explosion.
- 6. Use **D.LUX**⁺ components/parts supplied by DiaDent only. Use of components/parts manufactured by any other brand may cause damage or loss of performance and will thus void the warranty.

GENERAL CAUTION

- 1. This device should be used exclusively by trained and certified dentists or endodontic specialists for designated purposes described in this manual. If the device is used by any other users or for purposes other than the designated purposes in this manual, the manufacturer bears no liability due to injury from the incorrect usage.
- 2. Practice the technique and be familiar with the device before using on patients.
- 3. To prevent any possible injury, do not allow patients to handle or touch this device.
- 4. This product is not waterproof. Do not immerse the hand-piece, battery pack and charger base in liquid of any kind.
- 5. For safe use, do not operate continuously in any mode and follow the specified duty cycle.

Application Notes

- 1. If the Light Probe is cracked or damaged, stop using it immediately. Being a plastic product that may enter into mouth, the Light Probe can be hazardous.
- 2. Do not subject the handpieces to strong shocks or vibrations. Make sure that the Light Probe is inserted securely and has not been pulled out before use (otherwise, it may cause malfunctions or low light levels).
- 3. Never look directly at the output light. Otherwise, visual impairment may result.
- 4. As irradiating with strong light (in MAX mode) has a risk of burns, be careful when using it and never use it continuously.

Safety Instructions

- 5. Use disposable sheath to prevent contamination of the Light Probe and dispose it immediately after use, as it is for single use only.
- 6. When moving the device, remove the hand-piece from the charger and move the hand-piece with the light protector and the charger separately and safely. The light protector should be attached to the hand-piece so it will not roll and lose balance when placed on a flat surface.

Device Storage

- ① Store the device in a safe place with the following conditions to avoid device malfunction or fire:
- Dry place where there is no moisture.
- Avoid leaving the device in a place with direct sunlight, or air with dust, salt, or sulfur.
- Atmospheric Pressure 70 ~ 106kPa / Temperature −10 ~ 40° C / Humidity 30 ~ 85%
- 2) The device should be cleaned after each use.
- ③ Should there be any defects or malfunctions, stop using the device immediately and call the customer service team.
- Please turn off the device when it is not in use. In case the battery pack will not be used
 for an extended period of time, unplug the adapter and make sure the battery pack is NOT
 at a completely discharged state before storing the device.

This product has been tested according to the IEC 60601–1–2 and is designed to provide reasonable protection against harmful interference to general operation and installation of medical devices. The device also has been designed and modified for professional health care environment

This product generates, uses, and can radiate radiofrequency energy and thus cause interference to other devices nearby. In case of harmful interference, user is recommended to try one or more of the following measures:

- Reorient or relocate the receiving device.
- Increase the separation distance between the interference-causing equipment and receiver.
- Consult a local dealer or the manufacturer.
- The battery of the device has passed both battery transportation test (UN DOT.38.3) and battery stability test (IEC 62133)

If the device is not operated properly, it might be a malfunction due to static electricity. In this case, press the power button for more than 6 seconds to turn it off and on.

WARNING:

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the **D.LUX+**, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

Package Contents



3. Package Contents

Before removing the device from the box, check the items listed below and make sure you have everything. If any item is missing or damaged, contact your sales representative immediately.

Contents:

• 1x D-Lux+ Hand-piece

1x D-Lux+ Charger

• 1x Light Probe

1x Light Protector

• 1x C-Battery (Included in the hand-piece)

• 1x Adapter

• 1x Power Cord (1.5m or 1.8m)

• 1x Disposable Sheaths (200 ea/Box)

1x User Manual

Adapter Information

Manufacturer: EDAC Power Electronics Co., Ltd.

Model: EM1024A2

Input: 100-240V~, 1.0-0.5A, 50-60Hz

Output: 6V==2A

WARNING

Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

Product Description

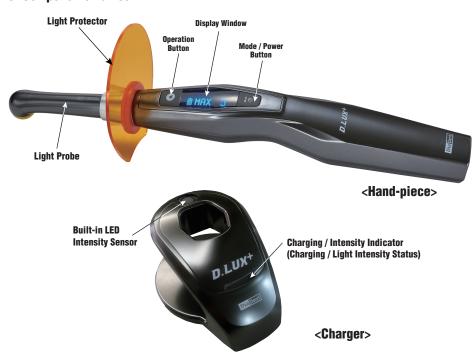
D.LUX+

4. Product Description

D.LUX+, the cordless LED visible light curing unit, has a stylish design and excellent cooling performance. Having overcome the overheating problem (which may deteriorate LED performance and even damage the unit) caused while using the visible light curing unit, it is capable of reliably producing high power. With the application of dual wavelength LED, it is capable of polymerizing various composite resins. Ergonomic design makes it convenient to use. Built-in rechargeable battery, wireless battery charging method and absence of contact terminal between the handpiece and the charger prevent the recharging part from contamination and contact failure.

Various built-in protection circuits (overcharge and over-discharge protection circuits) enable the device to be used safely. Battery level shown on the display window allows operator to check the battery level status and to maintain a constant light output.

5. Components Names



Operation Method

<Display>



<Light Probe mounting part>



* This is the Light Probe mounting part. It is removable. Never look at the light output section without Light Protector It may cause visual impairment.

* Replace the Light Probe

The light probe is replaceable. To replace it, pull it out from the hand-piece. Replace the Light Probe by inserting it into the hand-piece.

6. Operation Method

6.1 Preparation before Use

- 1) Be sure to read the instruction manual thoroughly before use.
- 2) Make sure the device is not damaged or defective before use.
- 3) Check the battery status before use.
- 4) Check each component such as hand-piece, battery, light probe, etc. before use.
- 5) Make sure all components are cleaned and disinfected before use.
- 6) Cover the Light Probe with disposable sheath before use.
- *Make sure the light probe is as close to the area to be treated as possible. Be careful not to shine the light onto close-by teeth and gums.

6.2 Instruction for use and operation sequence

- 1) Connect the adapter (power supply) of the charger to the power cord and then insert the plug into the outlet.
- 2) Connect the charging jack to the charger.
- 3) Mount the handpiece on the charger to begin charging. The charging indicator on the charger turns orange when the unit is charging and turns green when it is fully charged. It takes about 8 hours for the hand-piece to fully charge for the first time.
- 4) Insert the Light Probe into the hand-piece.
- 5) Attach the Light Protector to the hand-piece by pushing the Light Protector all the way down the hand-piece until it cannot move down further.
- 6) Before using the unit, cover the Light Probe with the Disposable Sheath.
- 7) Press and hold the Mode (Power) button for about 2 seconds to turn on the power.
- 8) Press the Mode (Power) button for about 1 second to change the mode in the order of STD, SFT, HIG, ORT and MAX in the display window. Press the Mode (Power) button briefly for less than 1 second to change the set—up time
- (For Mode and Time, see Section7.1 Hand-piece Function P.11)
- 9) Press the Operation button to perform light irradiation for the set time and press the button once again to stop the light irradiation. The light irradiation progress time is displayed numerically in the display window.

Hand-piece Function and Set-up Method



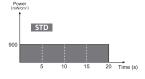
- 10) Make sure to discard the Disposable Sheath after use.
- 11) After using the handpiece, please press and hold the Mode (Power) button for more than 2 seconds to turn off the power.

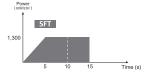
7. Hand-piece Function and Set-up Method

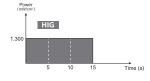
7.1 Hand-piece function

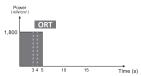
 \sim For safety, do not continuously operate in any mode and follow the specified duty cycle.

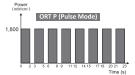
- 1) Press the Mode (Power) button for about 1 second to select the mode (5 different modes).
- 2) STD (Standard) mode irradiates with power of **900 mW/cm** (±10%) for the selected time (5, 10, 15 or 20 seconds).
- 3) SFT (Soft Start) mode starts irradiating slowly and gradually reaches a light intensity of **1,300 mW/**cm² (±10%) for the selected time (10 or 15 seconds).
- 4) HIG (High Power) mode irradiates with power of **1,300 mW/cm** (±10%) for the selected time (5, 10 or 15 seconds).
- 5) ORT (Orthodontic) mode irradiates with power of **1,800 mW/**orf (±10%) for the selected time (3, 4, 5 seconds or P). P (Pulse): When the light is in ORT P (Pulse Mode), the light turns on for 2 seconds and turns off for 1 second eight times.
- 6) MAX (Max Power) mode irradiates with power of **2,400 mW/cm** (±10%) for the selected time (1, 2 or 3 seconds).
- 7) Pressing the Operation Button during light irradiation stops the light irradiation immediately.
- 8) A flashing battery indicator shown on the Display Window while the unit is in use means that it is running out of capacity and the low battery level may affect performance, limiting normal operation. In order to restore normal function, it must be recharged immediately.
- 9) The device enters sleep mode after 5 minutes of inactivity with a buzzer sound and is automatically turned off after 60 minutes.

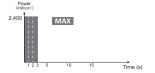












Hand-piece Function and Set-up Method



7.2 Feature settings

- 1) If the hand-piece display window is not turned on, press the Power Button to turn on the power.
- 2) Pressing and holding the Mode (Power) button for about 1 second changes the mode in the order of **STD, SFT, HIG, ORT and MAX** in the display window. (Refer to the description under Section7.1 Hand-piece Function P.11)
- 3) Press the Operation Button to perform light irradiation for the set time and press the button once again to stop the light irradiation. The light irradiation progress time is displayed numerically on the display window.
- 4) To stop the light while the light is in operation, press the Operation Button.

7.3 Battery replacement

The battery pack comes inside the hand-piece.

- Do not touch the patient when changing the battery.
- 1) Pick out and remove the two gray silicone plugs with an appropriate tool. The silicone plugs are located on back of the hand–piece on the battery cover.
- 2) Remove the screw on the battery cover at the back of the hand–piece by turning it counterclockwise with a + screwdriver.
- 3) Remove the battery cover by sliding it down and out.
- 4) Remove the battery by pulling it out.
- 5) Insert the new battery pack in the proper direction (the terminal pin has to face upwards).
- 6) Cover the battery cover.
- 7) Tighten the screws in clockwise using a screwdriver
- 8) Insert the two gray silicone plugs back into the screw hole.

8. Charger Features and Cautions

8.1 Charger functions

- 1) The charger consists of a Charging/Intensity Indicator, and a LED Intensity Sensor capable of measuring the status of the light intensity.
- 2) Even with the charger connected to the power supply, the Charging/Intensity Indicator will not be lit if the hand-piece has not been mounted (hereafter, the Charging/Intensity Indicator shall be indicated as just the Indicator)
- 3) When the hand-piece is mounted on the charger, the indicator turns orange when charging and turns green when the battery is fully charged.
- 4) If the Indicator is not lit, it means the hand-piece is not properly positioned in the charger base. In this case, the hand-piece should be repositioned and reseated into the charger base.

Charger Features and Cautions



- 5) If the Indicator is not turned on after the hand-piece is positioned properly in the charger, disconnect the adapter from the charger for a few seconds and then try to charge again. If the charger still does not work, please contact your representative immediately. It might be the problem of charger or battery pack.
- 6) The Indicator displayed in green means the charging is complete. After charging is complete, the Indicator may flash in orange briefly to check the charging status.
- 7) During charging, the bottom part of the main unit and the top part of the charger may generate heat, which is normal.
- 8) If the hand-piece is removed while charging, the charging indicator may turn off after a few seconds, depending on the residual amount of magnetic field.
- 9) If an error occurs while charging (for example, indicator lights up in green at the beginning of charging, etc.), remove the adapter's charging jack from the charger and then reconnect it.
- 10) By irradiating the light on the Light Intensity Measurement Unit, light intensity can be verified whether it is within the normal range on the Indicator. Measure the light intensity in STD mode with the adapter connected. See below for LED color indications:

Green: Normal Orange: Shortage



CAUTION

Measurement must be done within 5 seconds in STD mode. If the light intensity is measured in other modes or over 5 seconds, it could cause serious damage to the sensor and may cause malfunction due to heat. In severe case, the sensor part might be broken.

8.2 Precautions during charging

- 1) Please use only the power adapter supplied by DiaDent Group International. Using a third-party adapter may result in the internal parts being damaged, causing malfunction or fire.
- 2) This charger adopts the magnetic induction wireless charging system. Please remove any foreign substance, magnets, metal plates, and other objects from the silicon wireless charging pad. The product may be damaged due to heat generation/overheating and this may also cause a fire.
- 3) Magnets or metals being near the charger may cause operational errors. Keep such materials as far away from the charger as possible.
- 4) Please keep the silicone wireless charging pad and the hand-piece as close as possible so that there may not be any gap between them while maintaining their vertical status. (Charging time may be extended if they are twisted or gap exists between them.)
- 5) Do not drop the battery or subject it to shock. It may cause leakage and damage to the battery, and may also cause a fire.
- 6) In case the battery level is low (or is fully depleted), a lot of heat will be generated when unit is recharging. This is normal and is caused by the large amount of charging current.

Cleaning and Maintenance

D.LUX+

- 7) If you use an adapter that is not supplied by DiaDent, the buzzer sound may occur while in use. In this case, please disconnect the adapter immediately from the charger and use the recommended adapter (provided by DiaDent) to prevent malfunction and failure of the charger.
- 8) To disconnect / unplug the electric power, you have to disassemble the power plug from the adapter. Do not place the adapter in a place where it is difficult to unplug it.

9. Cleaning and Maintenance

- 1) Before Use
- Inspect any damages on hand-piece or parts
- Check if the light probe is broken or contaminated. If the light output part is contaminated, clean it thoroughly. (Contamination is the reason for power loss)
- 2) Monthly Inspection
- Check and tighten all the loose connection components.
- Separate light probe from hand-piece and gently clean the inside of the light source and plastic protector with dry cotton swap. Caution: Don't apply any excessive force to the light source.
- 3) Yearly Inspection
- Extensive checkup for the safe and normal function of the device. Inspect all the connection components on the hand-piece as well as the cable and power cords.
- When not in use, disconnect the power adapter and power supply from the charger.

9.1. Cleaning and Maintenance

- 1) Cleaning the Hand-piece
- Remove the hand-piece from the charger.
- Clean the outer surface of the hand-piece using a soft cloth moistened with a pH-neutral surface cleaner.
- Do not submerge the hand-piece in disinfectant liquids of any kind.
- 2) Cleaning the Charger
- Remove the hand-piece from the charger.
- Disconnect the charger from the power adapter and power supply.
- Clean the outer surface of the charger using a soft cloth moistened with a pH-neutral surface cleaner.
- Do not submerge the charger in disinfectant liquids of any kind.
- 3) Light Probe
- Remove the Light Probe from the hand-piece.
- Remove all foreign substance from the Light Probe and wipe its surface with soft cloth moistened with a pH-neutral cleaning solution. (Do Not Autoclave)
- Always clean it after use to maintain cleanliness.

Disposal · Item Codes



4) Light Protector

- Remove the Light Protector from the hand-piece.
- Wipe the surface of the Light Protector with soft cloth moistened with a pH neutral surface cleansing solution.



CAUTION

Potential electromagnetic waves or the effects of other medical devices used in hospitals may cause the malfunction of the device or adversely affect of other device.

10. Disposal

- 1) Hand-piece and Charger disposal
- Separate the battery pack from the hand-piece before disposal. Dispose of electronic parts as electronic waste. Dispose of all other parts according to the relevant electronic waste disposal regulations.
- 2) Battery Pack disposal
- Dispose of the battery pack as chemical waste in accordance with all applicable local regulations.
- Do not throw the disposed battery pack into any heat/fire.
- To prevent the battery from overheating due to short circuit, dispose the battery in a discharge state.
- Do not disassemble, open or cut the battery.
- Do not expose the battery to heat or fire.
- Pay attention to the short circuit of the battery.

11. Item Codes

ITEM	ITEM CODE
D-Lux+ Regular KIT	4008-1001
D-Lux+ Hand-piece	4008-1110
D-Lux+ Charger	4008-1120
D-Lux+ Light Probe	4008-1130
D-Lux+ C-battery (Battery Pack)	4008-1140
D-Lux+ Light Protector	4008-1150
D-Lux+ Power Supply (Adapter)	4008-1160
D-Lux+ Power Cord	4008-1161
D-Lux+ Disposable Sheath	4008-1170



12. Troubleshooting

Suggested here are some common problems you might encounter and how to fix them. For problems not listed here, please contact your dealer or the A/S center of our head office.

Problem	Solution		
1. Device will not turn on	Check the connection between the charger and power adapter. Check the connection between the battery and hand-piece. Charge the battery pack.		
2. Hand-piece does not work	 Check that battery is fully charged before use. Check the connection between the charger and power adapter. Replace the battery pack. 		
3. The hand-piece operates abnormally	 Check if any button is pressed accidentally. Press and hold the power button for at least 7 seconds to turn off the power and then turn it back on again. Remove the battery from the hand-piece and then replace it. 		
4. Display Window is not on	Check the charge status of the battery pack.Check if the display window (OLED) is damaged.		
5. The output is abnormally weak	 Make sure the Light Probe is inserted all the way into the hand-piece Check if the Light Probe part is contaminated. If the performance of the light source (LED) is compromised, the Light Probe should be replaced. 		
6. Charger does not work	 Make sure to use the power adapter provided by the manufacturer. Make sure the power adapter is properly plugged in. Make sure the charger and power adapter are intact and damage free. Ensure that the hand-piece is placed properly and firmly on the charger base. If the battery, hand-piece, or charger becomes wet, disconnect from the power cord and dry immediately. Do not use until completely dried. Replace the battery pack. If the charger still does not work, please contact your representative immediately. 		
7. The battery is discharged quickly	Lithium-ion battery has a fixed service life, resulting in performance deterioration over extended periods of use. If problems arise during its usage, the battery should be replaced with a new one.		

13. Warranty

1) The manufacturer provides a one (1) year warranty effective from the date of purchase. Any defects or errors that are due to faulty manufacturing or material will be repaired or replaced within this warranty period. Consumables such as light probe, light protector, battery pack, Power cord, adapter, disposable sheaths are excluded.

Specification

- To obtain warranty coverage and to return the device to the manufacturer's service facility, please contact your sales representative.
- 3) Products returned for warranty coverage should be securely packed with all components and shipped with postage prepaid. DiaDent does not accept shipments sent collect. DiaDent will be responsible for the shipping of the replacement or repaired product.
- 4) Manufacturer disclaims liability and is not responsible for repair or replacement of product in the case of:
- · Noncompliance with this instruction manual
- Operating and/or handling the device without care
- Damage caused by natural disasters
- · Incorrect diagnosis or poor result due to operator error
- · Device damages resulting from repairs or modifications not approved/serviced by the manufacturer

14. Technical Specification

Product Name		D-Lux+		
Light Wavelength Range		405nm, 460nm		
Ligh	t Intensity	MAX 2,400mW/cm²		
Char	ging Time	Approx 8 hours		
Durby Cycle		Operation Time : for each mode		
Duty Cycle		Break Time : at least 60 sec.		
Operation to	me per full charge	MAX 3 sec x 700 times over		
Ар	plied Part	Light Probe		
Applied Part N	laximum Tempeature	60 ℃		
	Hand-piece	201 x 33 x 44mm (L x W x H)		
Dimensions	Light Probe	77 x 15 x 15mm (L x W x H)		
	Charger	124 x 100 x 72mm (L x W x H)		
	Hand-piece	119g		
M	Light Probe	17g		
Weight	Light Protector	10g		
	Charger	215g		
Power Supply	Input	100 ~ 240V~, 50~60 Hz, 50VA		
(Medical Adapter)	Output	6V 2A		
	Frequency	110~205kHz		
Wireless Charger	Modulation Method	WPC 1.2 Qi-compliant device (Dual-channel Amplitude Shift Keying (ASK) demodulation		
	Max. Transmission Power	42 dBμA/m		
Battery		Li-ion 3.6V === 2600mAh/Rechargeable		
	Temperature (°C)	10 ~ 30 ℃		
Operating Conditions	Ambient Pressure	70 ~ 106 (KPa)		
CONTUNITIONS	Relative Humidity	30 ~ 75 %		
Transportation	Temperature (°C)	-10 ~ 40 ℃		
and Storage Ambient Pressure		70 ~ 106 (KPa)		
Conditions Relative Humidity		30 ~ 85 %		
neiguve numuny		23 - 00 70		



15. Symbols

Symbol	Description	Symbol	Description
\triangle	Cautions indicate which, if not observed, could result in damage to the user and/or device.	===	Direct current
(€	CE certificate: Product conformance with the applicable European Union Directives	EC REP	Authorized EU Representative
•••	Manufacturer	W	Manufacture Date
SN	Serial No.	(3)	See instruction manual
†	Type B Applied Part		Class II equipment

Symbol	Description	Symbol	Description
②	Do not Reuse	<u>Z</u>	Subject to electrical/electronic equipment waste regulations
	Sitting Prohibited	-10°C 108°T	Temperature Limitation
30%	Humidity Limitation	708Fz	Atmospheric Pressure Limitation
*	Keep Dry	<u></u>	Caution, hot Surface Be careful to prevent burns
ROHS	The Restriction of the use of certain Hazardous Substances in electrical and electronic equipment	Caution: Refer to accompanying documents	Refer to accompanying Documents
Caution: Do not open the case, Refer servicing to qualified personal only	Refer Servicing to Qualified personal only	REF	Catalog Number

FCC Warning

■ FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Any changes or modifications to this device not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum 20 cm between the radiator and your body. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter unless authorized to do so by the FCC.

■ IC Statements

This device complies with Industry Canada license–exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device. RF Exposure

The antenna (or antennas) must be installed so as to maintain at all times a distance minimum of at least 20 cm between the radiation source (antenna) and any individual. This device may not be installed or used in conjunction with any other antenna or transmitter.

■ Hereby, DiaDent Group International declares that our (RE type: D-Lux+ wireless charger) is in compliance with RED 2014/53/EU. The full text of the EU DoC is available at the following internet address http://www.diadenteurope.com/

EMC Information

EMC (Electromagnetic Compatibility) Information

Phenomenon	Basic EMC standard or testmethod	Port tested	Test level/requirement
Mains terminal disturbance voltage	EN 55011:2016+A1:2017 CISPR11:2015+A1:2016	AC Mains	Group1, Class A
Radiated disturbance	EN 55011:2016+A1:2017 CISPR11:2015+A1:2016	Enclosure	Group1, Class A
Harmonic Current Emission	EN 61000-3-2:2014 IEC 61000-3-2:2014	AC Mains	Class A
Voltage change, Voltage fluctuations and Flicker Emission	EN 61000-3-3:2013 IEC 61000-3-3:2013	AC Mains	Pst: 1 Plt: 0.65 Tmax:0.5 dmax: 4% dc: 3.3%
Electrostatic Discharge Immunity	EN 61000-4-2:2009 IEC 61000-4-2:2008	Enclosure	± 8 kV/Contact ± 2, ± 4, ± 8, ± 15 kV/Air
Radiated RF Electromagnetic Field Immunity	EN 61000-4-3:2006+A2:2010 IEC 61000-4-3:2006+A2:2010	Enclosure	3 V/m 80 MHz-2.7 GHz 80% AM at 1 kHz
Immunity to Proximity Fields from RF wireless Communications Equipment	EN 61000-4-3:2006+A2:2010 IEC 61000-4-3:2006+A2:2010	Enclosure	Table 9 in IEC 60601-1-2: 2014
Electrical Fast Transient/ Burst Immunity	EN 61000-4-4:2012 IEC 61000-4-4:2012	AC Mains	± 2 kV, 100 kHz repetition frequency
Surge Immunity	EN 61000-4-5:2014 IEC 61000-4-5:2014	AC Mains	Line to Line \pm 0.5 kV, \pm 1 kV Line to Ground \pm 0.5 kV, \pm 1 kV, \pm 2 kV
Immunity to Conducted Disturbances Induced by RF fields	EN 61000-4-6:2014 IEC 61000-4-6:2013 EN 61000-4-8:2010 IEC 61000-4-8:2009	AC Mains	3 V 0.15–80 MHz 6 V in ISM bands Between 0.15 MHz and 80 MHz 80% AM at 1 kHz

EMC Information

EMC (Electromagnetic Compatibility) Information

Phenomenon	Basic EMC standard or testmethod	Port tested	Test level/requirement
Power Frequency Magnetic Field Immunity	EN 61000-4-11:2004 IEC 61000-4-11:2004	Enclosure	30 A/m 50 Hz & 60 Hz
Voltage dips			0 % Ur: 0.5 cycle At 0°,45°,90°,135°,180° 225°,270° and 315°
	EN 61000-4-11:2004 IEC 61000-4-11:2004	AC Mains	0 % Uτ; 1 cycle and 70 % Uτ; 25/30 cycles Single phase: at 0°
Voltage interruptions	EN 61000-4-11:2004 IEC 61000-4-11:2004	AC Mains	0 % Uτ; 250/300 cycle

NOTE:

The EMISSIONS characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 class B is normally required) this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment.

Manufacturer:

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