



S300

130,000 Lux Surgery Lamp

MANUAL





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1.CONFORMITY

- DENTIS certifications:
 - EN ISO 13485: -2016
 - Compliant with directive: 93/42 / EEC Medical device modified by 2007/47 / EC, annex I and annex VII
- B&D certifications:
 - EN ISO 13485: 2016
 - EN ISO 9001
 - Compliant with directive: 93/42 / EEC Medical device modified by 2007/47 / EC, annex I and annex VII.
- Products compliant with the directive:
 - EN 15223-1: 2012, - Medical devices: symbols to be used with the labeling of medical devices and the information to be provided - Part 1: General requirements
 - ISO EN 13485: 2016 - Medical Devices, Quality Management Systems - Requirements for regulatory purposes.
 - EN ISO 14971: 2012 - Medical Devices, Application of risk management to medical devices.
 - EN 60601-1: 2006 + A1: 2013 - Medical electrical equipment - Part 1 requirements for basic safety and essential performance.
 - EN 60601-1-2: 2015, Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: electromagnetic disturbances - Requirements and tests.
 - EN 60601-1-6: 2010 Medical electrical equipment Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability.
 - EN ISO 7010: 2019, Graphic symbols - Signs and signs with safety colors - Safety registered.
 - EN 62471: 2008, Photo-biological safety of lamps and lamp systems.
 - EN 62366-1: 2015, Application of usability engineering to medical devices.
 - IEC 60601-2-41: 2009 + A1: 2015, Part2-41: Medical electrical equipment -: Particular requirements for the basic safety and essential performance of surgical and diagnostic equipment.
 - EN ISO 9680: 2014, Dentistry - Operating lamps.
 - IEC 62133: 2012, Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for sealed portable secondary cells and for batteries made from them, for use in portable applications.
 - IEC 62304: 2006 / A1: 2015, Software for medical devices, Software life cycle processes.

2.PRECAUTIONS AND WARNINGS



CAUTION

This equipment is a Medical Device and is intended for use in the professional healthcare field only.



CAUTION

All cables and their maximum lengths of this Medical Device can only be replaced by the manufacturer or DENTIS, their deterioration could compromise the compliance of this medical device with the EMC (electromagnetic compatibility) requirements. Do not modify this medical device.



CAUTION

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



ATTENTION

Use of this equipment as a Medical Device adjacent to or stacked with other equipment should be avoided as it may result in improper operation. If such use is necessary, check this equipment and other equipment to verify that all are functioning normally.



ATTENTION

The use of accessories, transducers and cables other than those specified or supplied by DENTIS for this medical device may result in increased electromagnetic emissions or decreased electromagnetic immunity of this device and cause improper operation.



ATTENTION

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should not be used within 30 cm (12 inches) of any part of the Medical Device equipment, including cables specified by the producer.

I manufacturer. Otherwise, performance degradation of this equipment may occur.



ATTENTION

The instructions provided in this document must be followed when handling the product. Failure to comply can endanger the safety of installers or users. In addition to specific information on the operation of the entire product and the performance of preventive maintenance, it is provided in the USER'S MANUAL. For more information, please contact our sales network or our local network.



ATTENTION

Electrical connections must only be made by a qualified technician. Replacement of the lithium battery should only be performed by a qualified technician. The electrical installation must be planned, performed and inspected by electrical engineers.



ATTENTION

The S300 lamp is designed to work with AC 100-240V, 50 / 60Hz power supply. Higher or lower voltages can affect the light intensity and service life of the LEDs. Damaged cable insulation creates the risk of electric shock. To protect yourself from the risk of electric shock, connect the cables and power cords carefully. The power device equipment. The medical device equipment is class I equipment. To avoid the risk of electric shock, the equipment must be connected to a power supply with PE (protective earth).



ATTENTION

A master control switch must be installed for shutdown. Power supplies may only be installed and connected by an electrician or DENTIS / B&D authorized service technician. This product can only be repaired and special assembly work can only be carried out by DENTIS or a company authorized by DENTIS. Check the polarity of all electrical connections before turning on the power. Be careful when handling electronic boards: these boards are supplied in an electrostatic case and must be handled with the utmost care.



ATTENTION

Do not look directly at the light source (LED). The clutches of the lamp are adjusted during installation. Like all mechanical parts, the clutches are subject to wear. Adjust the clutch only if it clutch only if the lamp no longer remains stationary in any position. Check the condition of the mounting surface. The operation and safety of the device can be affected by the removal of some components during maintenance operations.



Arms and Devices
Arms And Device



ATTENTION

All information contained in this manual has been carefully checked at the time of publication. However, DENTIS / B & D assumes no responsibility for results caused by non-compliance, omission or misuse of the same. DENTIS / B & D has the right to modify the product itself or the product specifications without prior notice, as well as the right not to renew such modification on this manual.



ATTENTION

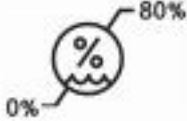
Do not press more than two buttons at the same time. In case of abnormal operation (overpower) of this product, stop medical treatment and contact the point of sale. The medical device circuit must be installed in the state with the means to electrically separate with in all poles from the POWER SUPPLY. You shouldn't run other apps or switch apps while running the LUVIS check.

3. SYMBOLS

Symbol	Description	Annotation
	<u>CE mark</u> The device bears the CE mark and complies with the requirements of the European Directive 93/42 / EEC Medical Device as amended by 2007/47 / EC, Annex I and Annex VII.	④, ⑤, ⑥
 	Recommendation	⑤ ⑤
	Grounding	②
	AC	②
	Off	①
	Hon	①
Symbol	Description	Annotation
	Stand-By	③
	Do not dispose of with general household waste	⑤

	CAUTION	⑤
	ATTENTION	⑤
	Instructions for use	⑤
	Read the instructions for use	⑥
	KEEP AWAY FROM RAIN	④
	DO NOT USE HOOKS AND DO NOT HANG	④
	FRAGILE HANDLE WITH CARE	④
	Do not flip - Correct support direction	④

Symbol	Description	Annotation
	Do not stack more than 5 packs	③

	Manufactured by	④, ⑤, ⑥
	Manufacturing date	⑤ ⑥
	Usage Temperature	④
	Maximum working humidity	④
	Recycle	⑥

4. INTRODUCTION

4.1 Intended use

- The minor surgery device (S300) is intended for use to provide visible illumination of the surgical area or patient during surgery, diagnosis and treatment. The minor surgery device (S300) is intended for use to provide visible illumination of the dental light or patient area during dental surgery, diagnosis and treatment.
- Classification according to 93/42 / EEC (MDD): Class I The lamp for minor surgery (S300) is classified as a Class I device.
- Classification under the provisions of the US Food and Drug Administration (FDA): Class II
- Form of protection against electric shock: Class I
- Degree of protection against flammability of the lamp S300: The degree of protection against flammability is classified: as a device not suitable for use in a potentially flammable environment.
- Method (s) of sterilization or disinfection recommended by the manufacturer:



- The MAIN HANDLE must be sterilized regularly with a sterilizer to prevent disinfection.
 - For all the rest of the product we recommend the use of a hydrogen peroxide dry fog system, capable of carrying out a complete disinfection of the lamp.
- Mode of operation: Classification of the device Medical device for minor surgery (S300): Continuous operation.

4.2 General descriptions

- The user must ensure that the device is functioning properly and is in satisfactory condition before each use.
- This medical device is intended for medical use only. The device may not be used for a purpose for which it was not designed.
- "Proper use" includes adhering to all instructions for use and ensuring that all inspections and service activities are carried out.
- Apply and comply with general guidelines and / or national laws, national regulations and rules of technology for medical devices applicable for putting into service and using the device for its intended purpose.
- The user must observe the following:
 - Protect yourself and others from danger.
 - Avoid contamination of the device.
- During use, the following national regulations must be observed:
 - Current health and safety regulations.
 - The applicable accident prevention legislation.
- To ensure that the device maintains its value and is always ready for use, maintenance should be performed once a year as recommended.
- Before using the products, you must receive training from a person authorized by the manufacturer.
- Security checks must be performed annually.
- Repair and service of the device are authorized only to those who meet the following requirements:
 - Authorized reseller technicians specially trained by DENTIS/B& D
 - The trained technicians of the DENTIS / B & D branches.

4.3 Environmental requirements

- Conditions of the environment of use.
 - Temperatures: 0 - 40 °C



- Relative humidity: 30 - 90% RH
 - Atmospheric pressure: 0-2,000 m (106–80 Kpa)
- Transport conditions:
 - Temperatures: 0 - 40 °C
 - Relative humidity: 0 - 80% RH

4.4 Safety Information

- The lamp (S300) as a medical device complies with the safety standard EN / IEC 60601-1
- Accessory equipment connected to the analog and digital interfaces must be certified according to the respective EN / IEC standards (eg EN / IEC 60601-2-41 for special requirements, EN / IEC 60601-1 for general requirements).
- The configurations must comply with the medical device equipment of the collateral standard EN / IEC 60601-1-2. Anyone who connects additional equipment to the signal input part or the signal output part configures an ME equipment and is therefore responsible that the ME equipment complies with the requirements of EN / IEC 60601-1.
- If in doubt, consult the technical support department or your local representative.
- For EU countries.
- The following mark, the name and address of the EU DENTIS Representative, show the compliance of the instrument with the Council Directive 93/42 / EEC of 14 June 1993 as amended by Directive 2007/47 / EC relating to medical devices.

Europe Representative
CALMED INVEST Kft.
Attila utca 34., Budapest, 1191,
Hungary



- Safety is everyone's obligation and responsibility.
- Safe use of this product is for anyone, such as installer, user, operator and manager of the equipment.
- Must read and learn this user manual is mandatory before installing, using, cleaning, fixing or operating this product or its accessories. Pay special attention and be aware of the safety warning symbols.



- If you do not follow the safety instructions in this manual, you may be injured or incident when using this product. Only after carefully reading and understanding this manual, use this product.
- Store this manual in a place where you can easily find it.

4.5 Warranty conditions

- DENTIS / B & D guarantees all products against material or manufacturing defects for one year from the date of delivery.
- DENTIS / B & D's sole obligation under the warranty is to provide the parts for repair or, at its option, to provide the replacement product (excluding labor).
- The buyer will have no other remedy. All special, incidental and accidental damages are excluded.
- Written notification of the breach must be given to DENTIS / B & D within the warranty period.
- The warranty does not cover damage resulting from improper installation or maintenance, accident or misuse.
- The warranty does not cover damage resulting from the use of chemicals and cleaning, disinfection or sterilization processes.
- Failure to comply with the instructions given in the DENTIS Instructions for use (instructions for use and maintenance) may void the warranty.
- The LED lights and its electronics are covered by a 60,000 hour warranty.

4.6 Electromagnetic Compatibility

- Immunity:

This ME equipment is intended for use in Professional healthcare facility environment.			
Immunity test	EN 60601-1-2:2015		Compliance
Electrostatic Discharge(ESD) IEC 61000-4-2	Direct: ± 8 kV Contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV Air Indirect: ± 8 kV HCP/VCP		Complies
Radio Frequency Electromagnetic Fields IEC 61000-4-3	3 V/m @ 80 MHz ~ 2.7 GHz 80 % AM at 1 kHz		Complies
Proximity fields from RF wireless communications equipment IEC 61000-4-3	Frequency (MHz)	Modulation	Immunity Level (V/m)
	385	**Pulse Modulation: 18 Hz	27
	450	*FM ± 5 Hz deviation: 1 kHz sine	28
	710 745 780	**Pulse Modulation: 217 Hz	9
	810 870 930	**Pulse Modulation: 18 Hz	28
	1 720 1 845 1 970	**Pulse Modulation: 217 Hz	28
	2 450	**Pulse Modulation: 217 Hz	28
			Complies

	<table><tr><td>5 240 5 500 5 785</td><td>**Pulse Modulation: 217 Hz</td><td>9</td></tr></table> ** The carrier shall be modulated using a 50 % duty cycle square wave signal. * As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.	5 240 5 500 5 785	**Pulse Modulation: 217 Hz	9				
5 240 5 500 5 785	**Pulse Modulation: 217 Hz	9						
Fast Transients IEC 61000-4-4	<table><tr><td>Voltage</td><td>AC/DC power ports</td><td>Signal ports</td></tr><tr><td>Test voltage</td><td>± 2 kV</td><td>± 1 kV</td></tr></table> - 100 kHz repetition frequency	Voltage	AC/DC power ports	Signal ports	Test voltage	± 2 kV	± 1 kV	Complies
Voltage	AC/DC power ports	Signal ports						
Test voltage	± 2 kV	± 1 kV						
Surges IEC 61000-4-5	<table><tr><td>Voltage</td><td>Power lines</td></tr><tr><td>Test voltage</td><td>Line to Line : ± 0.5 kV, ± 1 kV Line to ground: ± 0.5 kV, ± 1 kV, ± 2 kV</td></tr></table>	Voltage	Power lines	Test voltage	Line to Line : ± 0.5 kV, ± 1 kV Line to ground: ± 0.5 kV, ± 1 kV, ± 2 kV	Complies		
Voltage	Power lines							
Test voltage	Line to Line : ± 0.5 kV, ± 1 kV Line to ground: ± 0.5 kV, ± 1 kV, ± 2 kV							
RF Continuous Conducted IEC 61000-4-6	3 V @ 0.15 MHz ~ 80 MHz 6 V @ in ISM bands between 0.15 MHz and 80 MHz 80 % AM at 1 kHz	Complies						
Power Frequency Magnetic Fields IEC 61000-4-8	30 A/m @ 50 Hz or 60 Hz	Complies						
Voltage Dips, Interruptions, and Variations IEC 61000-4-11	• Voltage Dips 0 % UT; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % UT; 1 cycle and 70 % UT; 25/30 cycles Single phase: at 0° • Voltage Interruptions 0 % UT; 250/300 cycle • Voltage Variations <table><tr><td>Frequency (Hz)</td><td>Ranges</td></tr><tr><td>50</td><td>49, 50, 51</td></tr><tr><td>60</td><td>59, 60, 61</td></tr></table>	Frequency (Hz)	Ranges	50	49, 50, 51	60	59, 60, 61	Complies
Frequency (Hz)	Ranges							
50	49, 50, 51							
60	59, 60, 61							



• **EMISSIONS**

This ME equipment is intended for use in Professional healthcare facility environment.		
Emission test	Compliance	Guidance
Conducted Disturbance CISPR 11(EN 55011)	Complies (Group 1, Class A)	The ME equipment 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.
Radiated Disturbance CISPR 11(EN 55011)		
Harmonic current IEC 61000-3-2	Complies	The ME equipment is suitable for use in all establishments other than domestic premises and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Voltage fluctuations and flicker IEC 61000-3-3	Complies	

5. S300 LAMP TECHNICAL SPECIFICATIONS

IMPORTANT:

The S300 lamp has 3 systems for pre-setting the adjustments:

Dental - Surgery - Visit By selecting none of the three Options, the lamp is fully programmable without any restrictions.

5.1 Technical specifications (Complies with EN / IEC 60601-2-41, EN / ISO 9680)

• STANDARD SPECIFICATION

Specifications		Unit	LUVIS S300	Remark
Surgical Mode				
Central illuminance E_c (@1m)		lx	130,000	@4,800K
Electronic adjustment range		%	30~100	
Light field diameter (d10)		cm	15~25	
Light field diameter (d50)		cm	9~15	
Light field uniformity (d50/d10)		N/A	> 0.55	
Depth of illumination (60%)		cm	75	
Color temperature (3 levels)		K	3,800/4,300/4,800	±300K
Color rendering index (Ra)		N/A	96	±3
Special color rendering index (R9)		N/A	95	±3
Shadow dilution	With tube	%	100	
	With one mask	%	-	
	With two mask	%	50	
	With one mask, at base of tube	%	-	
	With two mask, at base of tube	%	50	
Radiation energy		mW/m ² ·lx	3.62	
Illumination energy(E_e)		W/m ²	454.5	

* Optical values are measured with a tolerance of ±10%



• **STANDARD SPECIFICATION(DENTAL MODE & EXAMINATION MODE)**

Specifications	Unit	LUVIS S300	Remark
Dental Mode			
Central illuminance E_c (@1m)	lx	5,000~30,000	
Electronic adjustment range	%	16~100 (3 level)	
Illuminance in patient's eyes	lx	<1,200	
Hard shadow	mm	12	
Focal Distance	cm	100	
Light field diameter (d10)	cm	15.0 X9.0	Oval shape
Light field diameter (d50)	cm	10.0 X6.0	Oval shape
Light field uniformity (d50/d10)	cm	> 0.65	
Color temperature	K	4,800	±300K
Color rendering index (Ra)	N/A	95	± 3
Examination Mode			
Central illuminance E_c (@1m)	lx	30,000~60,000	
Electronic adjustment range	%	50~100 (3 level)	
Light field diameter (d10)	cm	15	
Light field diameter (d50)	cm	9	
Light field uniformity (d50/d10)	cm	> 0.55	
Color temperature	K	3,800/4,300/4,800	± 300 K
Color rendering index (Ra)	N/A	96	± 3
Radiation energy	mW/m ² ·lx	3.75	
Illumination energy(E_e)	W/m ²	230.9	

* Optical values are measured with a tolerance of ±10%

5.2 Electrical Specifications (Conforms to EN / IEC 60601-1)

- Technical data

• SMPS TECHNICAL DATA

Content	Single LIGHTHEAD	Dual LIGHTHEAD
Input	AC 100-240 V, 50/60 Hz	AC 100-240 V, 50/60 Hz x 2
Output	DC 24 V, 4.6 A	DC 24 V, 4.6 A x 2

• RATING

Content	Rating	Remark
S300 LIGHTHEAD	AC 100–240 V, 50/60 Hz, 84VA	with BATTERY PACK
	AC 100–240 V, 50/60 Hz, 61VA	without BATTERY PACK
BATTERY PACK	DC 14.8 V, 26 Ah	Lithium-ion Battery

5.3 Mechanical specifications

Specific	Length (mm)	Weight kg)	Note
Head S300	521x469	4.41	Head + headband
Ceiling application	Diameter 360	5.5	
Wall application	100x250	1.5	
2-segment articulated arm	1980	7.5	
3-segment articulated arm	2910	9.8	



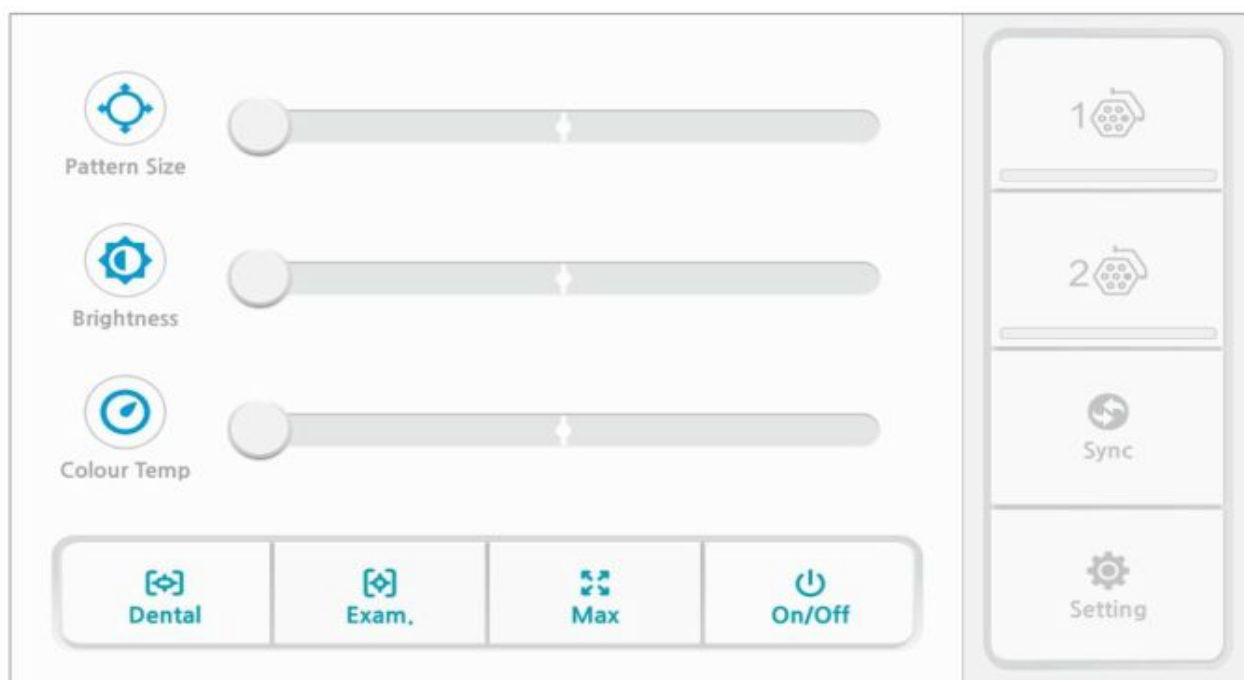
5.4 other features

Specifications	S300	Note
Protection against electric shock	Class I.	
Protection against harmful ingress of water or particulates	Normal	Head: IP65
Method of sterilization	See manual	

6. USE

6.1 Controls and adjustments of the light.

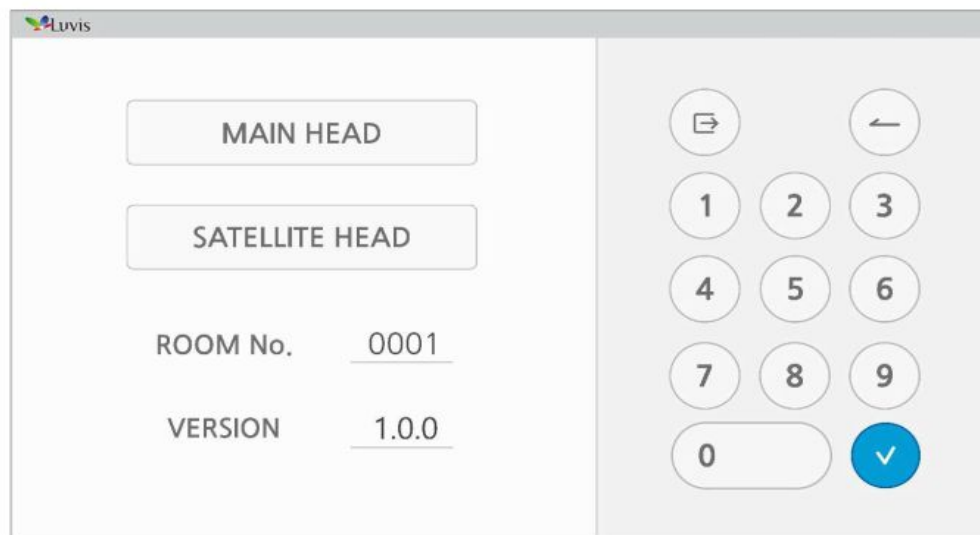
Control panel



Functions and commands

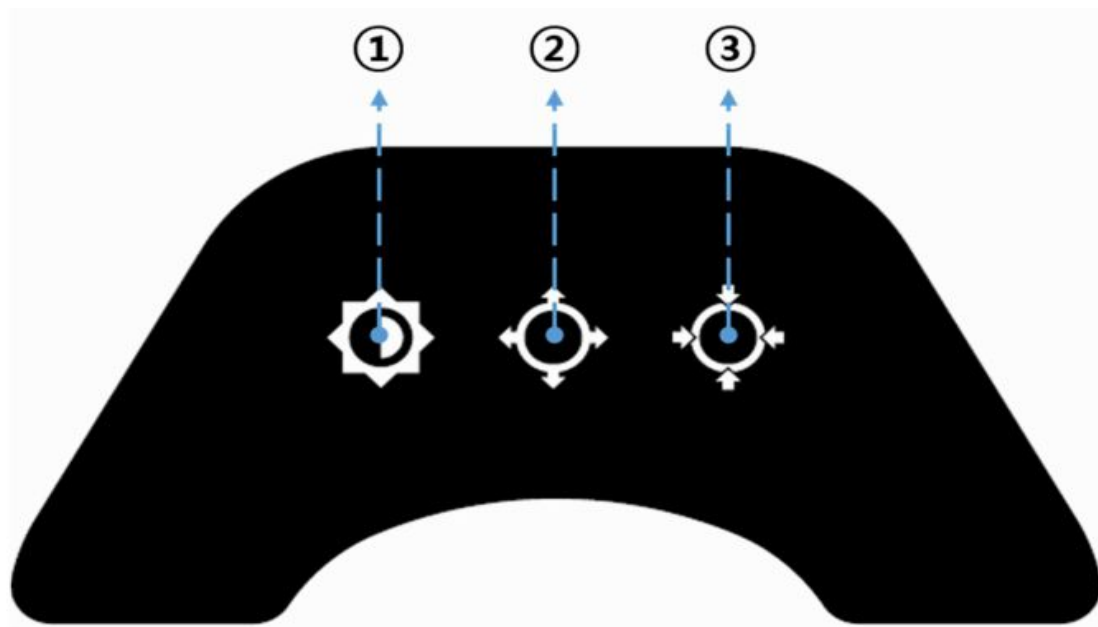
LUVIS S300		
	TESTA 1	SINGOLA LAMPADA
	TESTA 2	SECONDA LAMPADA
	SINCRONIZZAZIONE	IN CASO DI LAMPADE GEMELLE SINCRONIZZA ENTRAMBE LE DUE LUCI
		SETTAGGIO DELLA MEMORIA
	On/Off (Standby)	INTERRUTTORE ON- OFF La luce si accende, all'ultimo livello di illuminazione memorizzato nella sua me-
	REGOLAZIONE DEI TRE DIVERSI SETTAGGI	Tre diversi diametri di Spot Tre diversi livelli luminosi Tre diverse temperatura colore 3,800K / 4,300K / 4,800K
	Regolazione ai massimi livelli	Livello Luminosità: 3 Diamtro spot : 3
	Modalità visita	PRE-regolazione modalità Visita
	Modalità Dental	PRE-regolazione modalità Dental

Settings



Luvis S300		
Room n.	Operating Room n.	Setting n. stationed
Version n.	Version	Firmware version
 	Main lamp Satellite Lamp	- Select the main lamp - Select the satellite lamp
	Close the page	Exit the settings page.
	Backspace	Cancellation of the operating room number

6.2 Light functions managed by the HANDLE TOUCH CONTROLLER



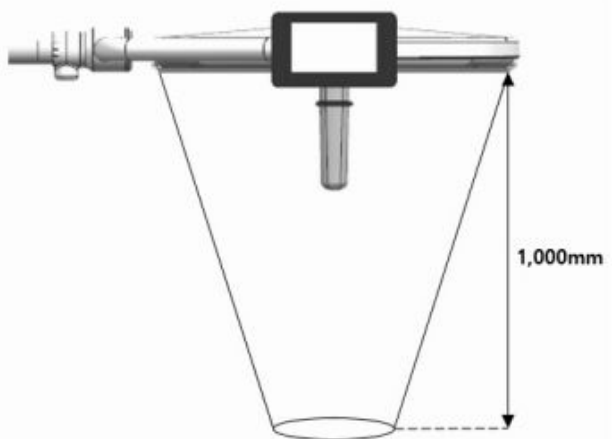
N.	Function	Description
①	Lighting level control	The level changes in rotation: 1 > 2 > 3 > 1 > 2 > 3
②	Command to increase the diameter of the light spot	The diameter of the light spot grows
③	Command to reduce the diameter of the light spot	The diameter of the light spot decreases

6.3 Control of the S300 lamp with the Android application (optional)

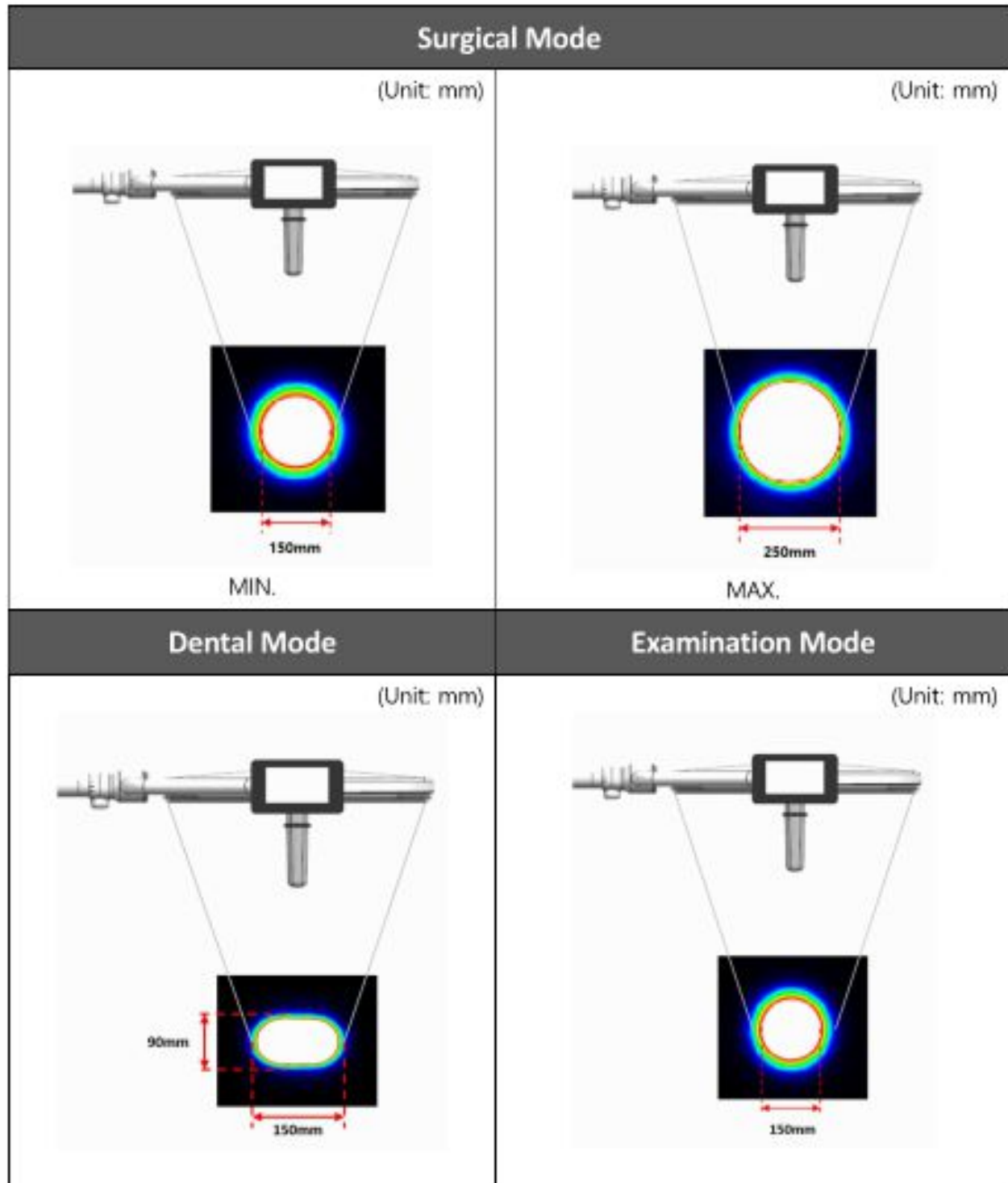
Installation with the Android application

- Refer to the LUVIS website for application installation.
<http://www.luvvis.co.kr/eng/>

6.4 Positioning

Positioning of the S300 lamp	
 MAIN HANDLE	
• Use the handle to position the lamp on the work area • The handle can be removed for sterilization	• Recommended distance: 1000 mm

6.5 Diameter of the light field



6.6 Handle



ATTENTION

After each sterilization and before using the MAIN HANDLE again:

- Check the MAIN HANDLE for any cracks.
- Make sure the MAIN HANDLE snaps properly into place on its holder.



7. CLEANING, DISINFECTION AND STERILIZATION

7.1 Sterilization of the handle



ATTENTION

Before using the handle, perform a sterilization treatment. The requirements of the national standards and directives for disinfection must be observed .



STERILIZZAZIONE

- Service Condition
- Temperature: 132 °C
- Pressure: 160 ± 50kPa (1.6 ± 0.5 kgf/cm²)
- Time: 10 min
- Dry: 16 min



Autoclave

7.2 Disinfection of the lamp

The S300 lamp can be treated with automatic dry fog systems with hydrogen peroxide, which ensure effective disinfection of all parts, without damaging the device.

Before each treatment the device must be cleaned with a detergent, in order to remove all traces of bio-film.



ATTENTION

During the disinfection of the operating room it is possible to use the automatic dry fog systems also for the complete disinfection of the



S300 lamp, these systems allow to act on parts that could be treated manually also with other systems.

7.3 CLEANING

Before and after use, clean the device and the handle with alcohol or ethanol, or with the same liquid used for dry fog.

It is not allowed to use agents that contain the following Substances: Highly concentrated organic and inorganic acids, Chlorinated hydrocarbons.

8.0 MAINTENANCE



ATTENTION

An electrical and mechanical check should be carried out every year. Disconnect the system from the mains before any maintenance to avoid electric shock.



ATTENTION

Movement control points and visual verification points.

- Paint defects, Plastic cracks, Loose parts.
- Free rotation / setbacks and arm deformation.
- The connection between the lamp head and the arm.
- Defect of the HEAD LOCK KEY. / The imperfect rotation of the head.

Lubrication points:

- Arm joint with silicone (see arm warnings)



ATTENTION

In case of breakdown or damage, contact the supplier.

9.0 DISPOSAL



- For the environment and human safety, waste must be recycled.
- Materials must be carefully separated.
- The electrical panels must undergo a specific recycling procedure.
- The cardboard box can be recycled with other paper products.
- If you have any questions about recycling your device, please contact your nearest DENTIS / B & D branch or supplier.

10.0 VERSIONS, MODELS AND ACCESSORIES

10.1 Codes of the different models

Product code	Description	Head	Arm
BALCS2A3F3PL3	S300 - LED operating light - CEILING VERSION	Standard S300	CEILING standard articulated
BA L CP2A3F3PL3	S300 - LED operating light - WALL VERSION	Standard S300	Standard articulated WALL
BA L LS3A3F3F3PL3	S300 - LED Scialitic Lamp - CEILING VERSION Extra Long Arm L = 3m	Standard S300	EXTRA LONG articulated - ceiling
BALLP3A3F3F3PL3	S300 - LED Scialitic Lamp - WALL VERSION Extra Long Arm L = 3m	Standard S300	EXTRA LONG articulated - WALL
TROLLEY VERSION	S300 led surgical lamp Trolley version	Standard S300	Articulated single arm 700 mm



	 BALCS2A3F3PL3	 BALCP2A3F3PL3
	 BALLS3A3F3F3PL3	 BALLP3A3F3F3PL3
	 BALLP1A2PL2	



10.2 Accessories

	CODES	DESCRIPTION	IMAGE	
	APPSO 0001	Ceiling application with Column		
	BLGA0000XX	Block with jaw from diameter 40 to 65 mm		
	APLM00001	Wall application		



	STAT XL0001	XL trolley with compartment and column		
	APLP 01	Floor application with column		



Arms and Devices
Arms And Device



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B&D srl

PI IT08141680960

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