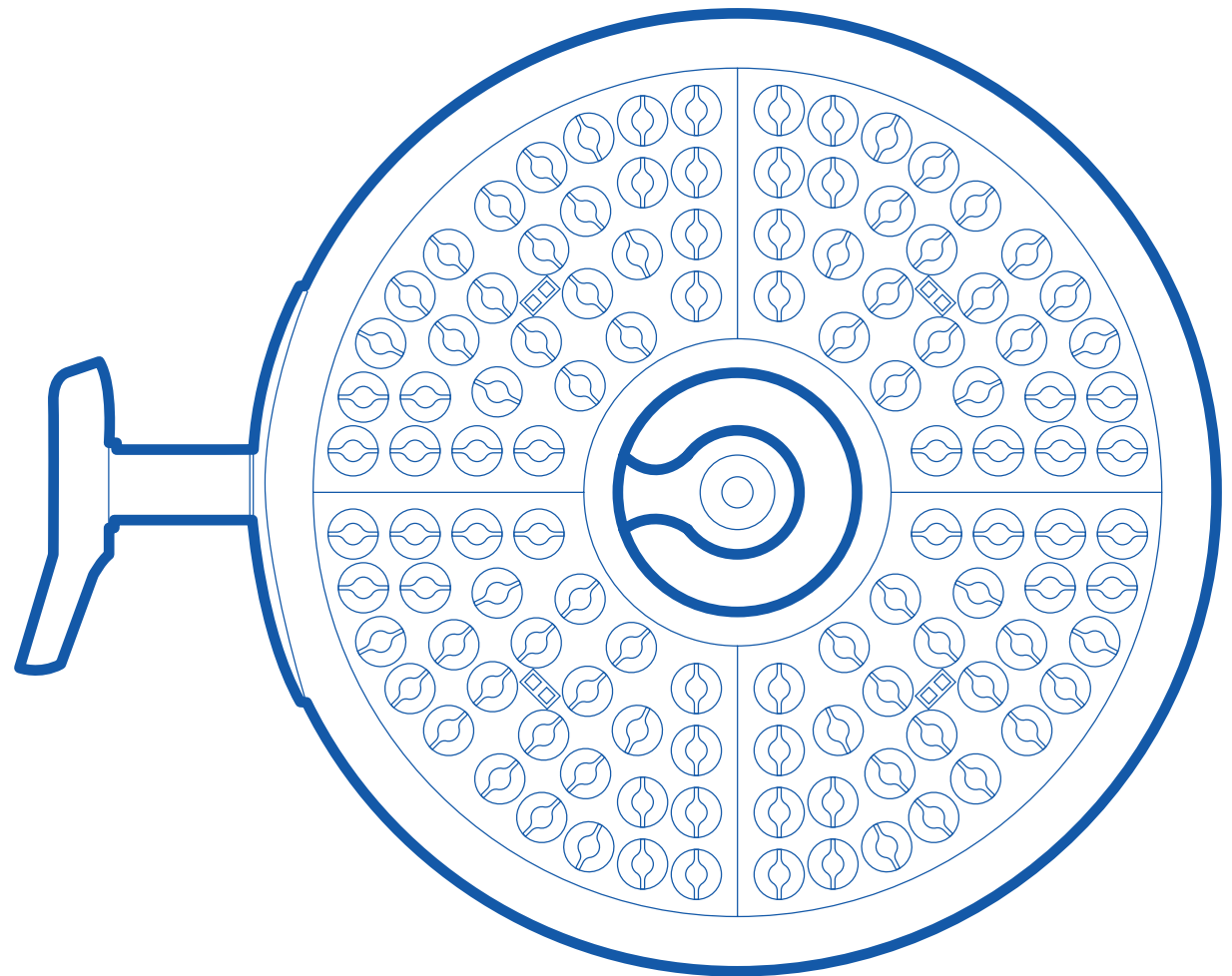


LUVIS | LIGHTS

LUVIS, Uses professional LED light sources delivers the most suitable light and prevent the ultraviolet and radiation for the patient.

Medical LED Illumination



LUVIS LIGHTS



DENTIS Co., LTD.
www.luvvis.co.kr

DENTIS Co., Ltd. **(HEADQUARTERS)** 6, Yuram-ro, Dong-gu, Daegu, Korea
DENTIS MEDICAL DIVISION **(SEOUL OFFICE)** 286, Beotkkot-ro, Geumcheon-gu, Seoul, Korea

Tel +82-53-583-2804
Tel 1899-7570 / +82-70-7730-4146 Email luvvis@luvvis.co.kr

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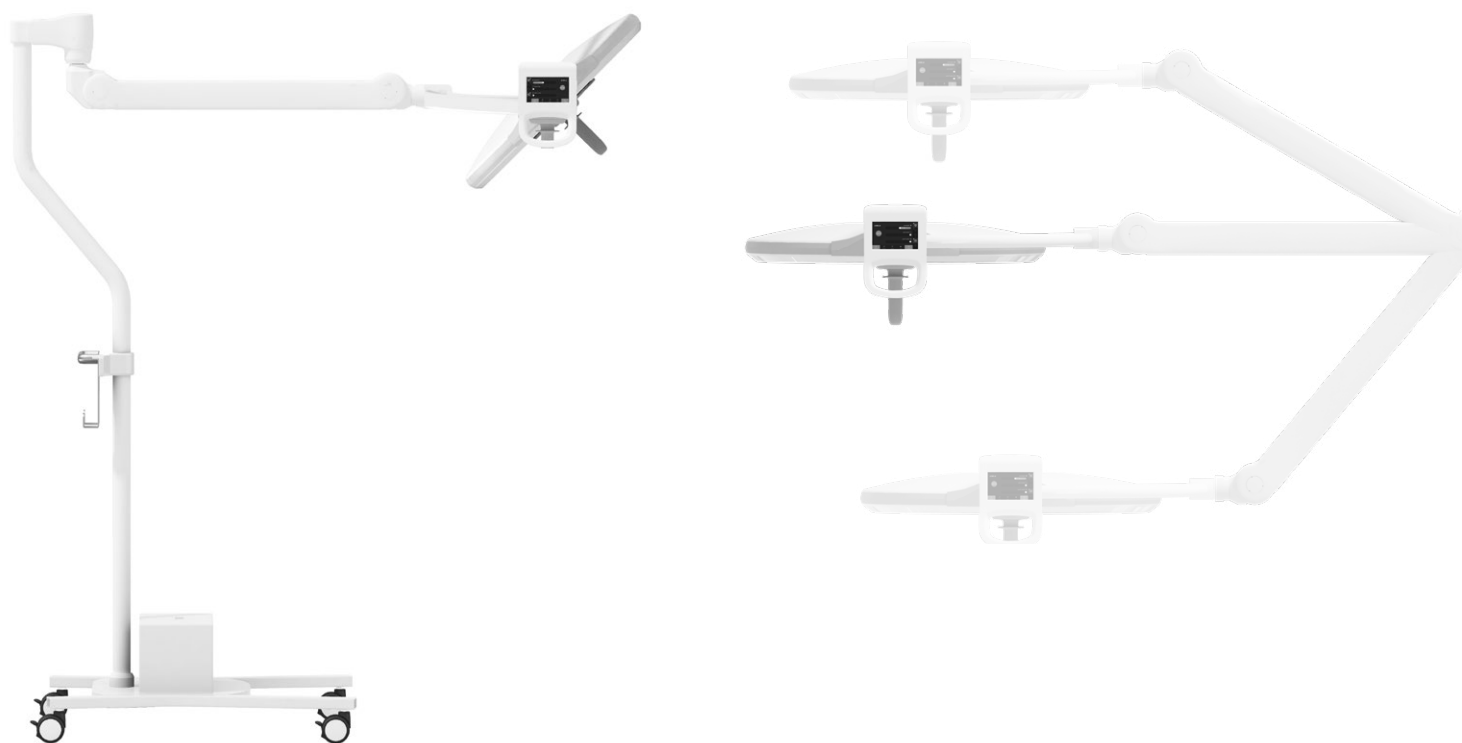
LUVIS SA300

65-66

LUVIS TECHNOLOGY

LUVIS Suspension Arm

The head controller level remains constantly even when the height of the arm changes during the operation.
It provides convenience to the surgeon during the operation and the non-rotating display allows the lighting to be controlled at any position.



The display angle of the surgical light remains unchanged, even when the angle of the lights head is adjusted



Shadow Dilution (Smart sensor)

One of the essential elements in a surgical environment is the shadowless effect.
All of LUVIS's shadowless lights have achieved excellent shadowless effects through proprietary optical design technology. Even if the surgical area is covered, the motion sensors automatically compensates for the illuminance value.



1 Mask

10%



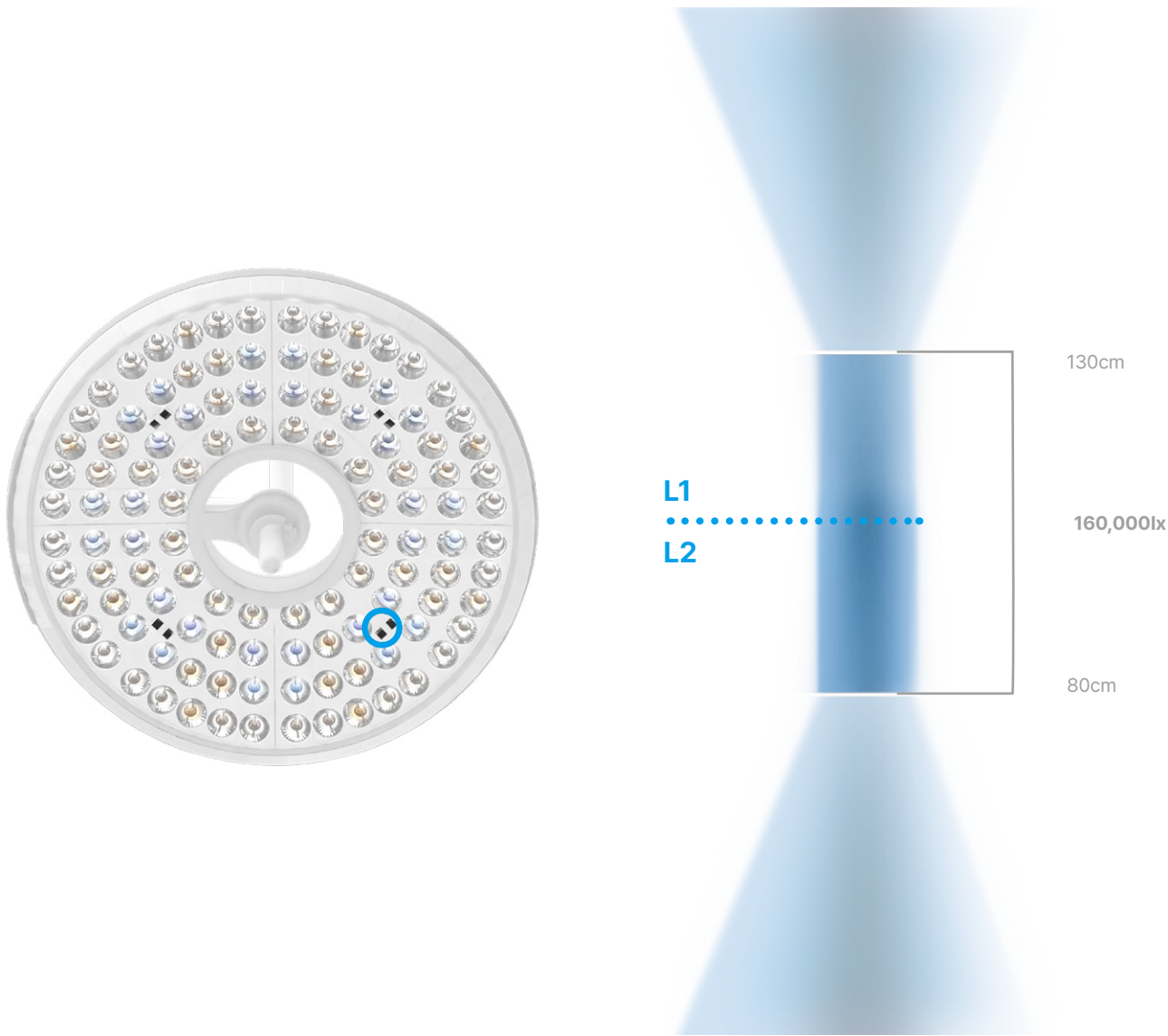
2 Mask

20%



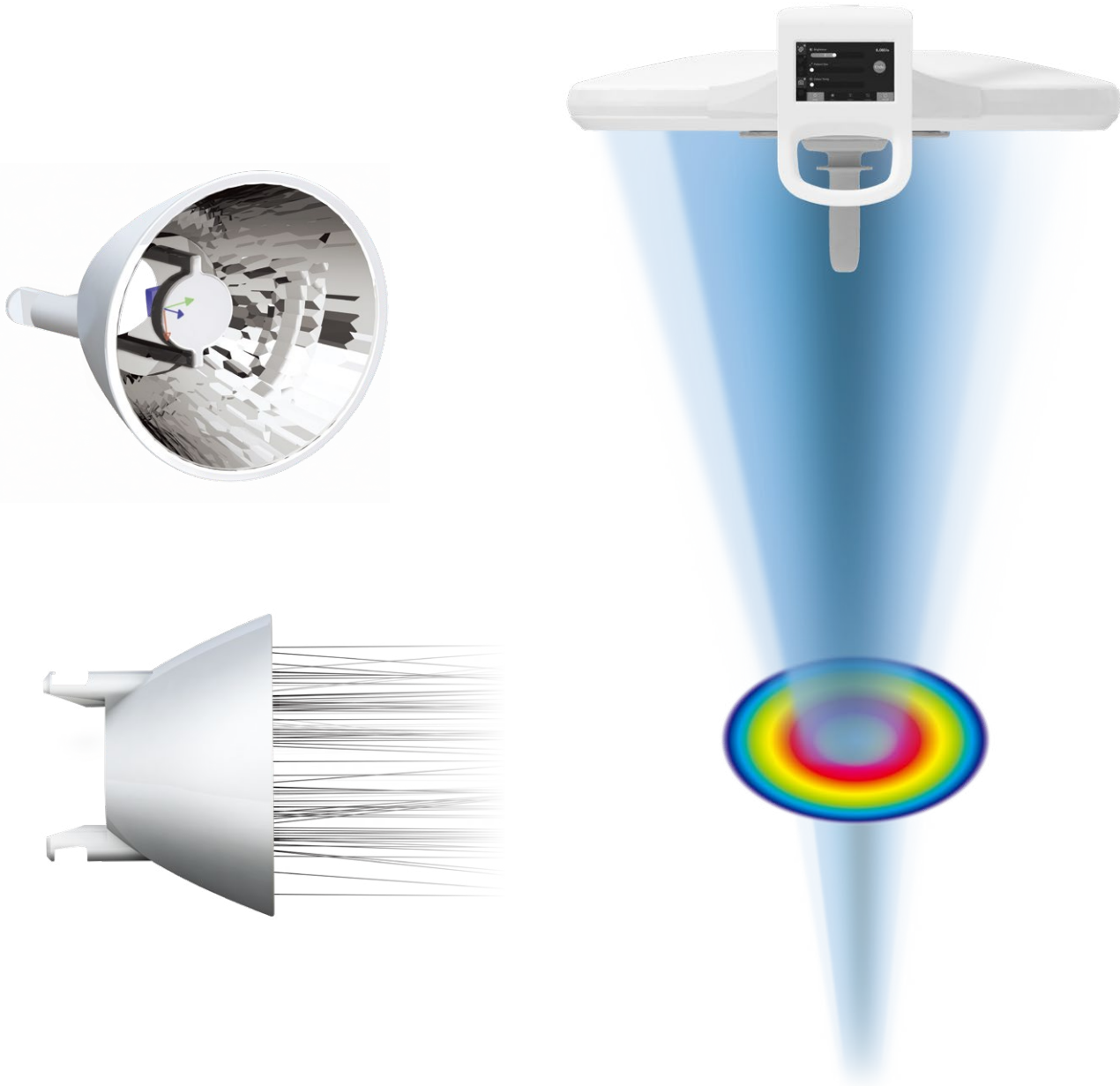
Depth of Illumination (Smart sensor)

Depth of illumination is one of the main functions of operation and it refers to the degree of maintaining a uniform illuminance environment despite the different working distance. LUVIS Lights ensures that the central illuminance remains at 160,000lx from 80 cm to 130cm, high depth of field is effective in cases where the surgical area is narrow and deep.



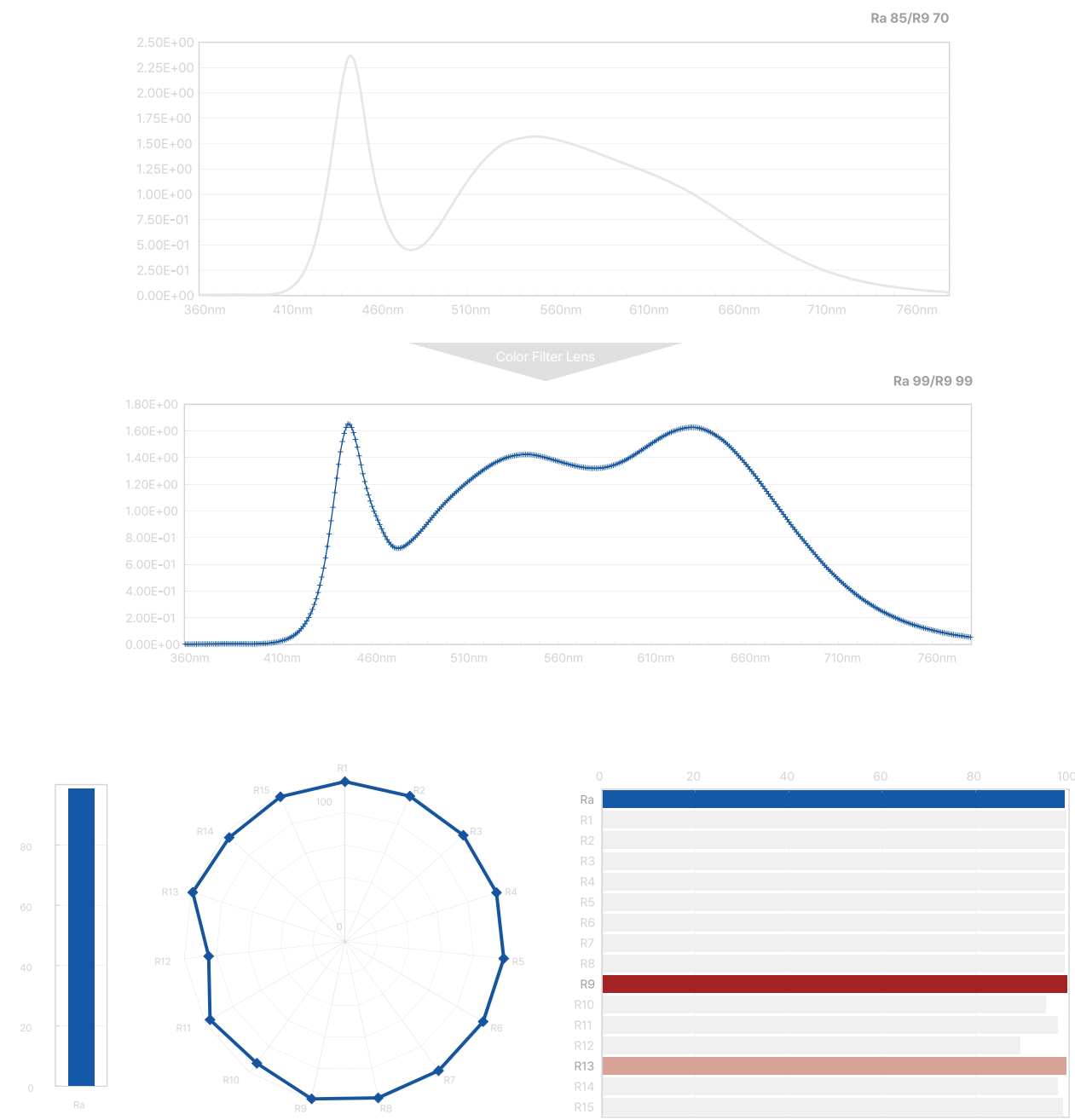
Hybrid LED System

A Hybrid optical system is a hybrid product that combines a reflector and shield. It performs various functions such as color temperature and light field diameter adjustment with low power consumption. Also, a hybrid LED system was used to enhance the color separation effect, in result it allows eye comfort during the surgery.



High Color Rendering Index

Ra 99/R9 99/R13 99
LUVIS Lights suggests high CRI which may realize more clear and nature-like color. LUVIS Lights using color filter lens exhibits high color rendering spectrum (R13 99) by lowering the blue wavelength (450nm) and increasing the green (500nm) and red (600nm) wavelengths. It helps to reduce the eye fatigue compared to higher brightness with low CRI.



Intuitive Control Panel

The Intensity, Light Field Diameter and Color Temperature can be perfectly adjusted for the specific operation.

- Intensity can be adjusted from 16,000lx to 160,000lx continuously (Endo mode: 1,600lx-16,000lx).
- Light Field Diameter can be adjusted from 18cm to 34cm continuously.
- Color Temperature can be adjusted from 3,600K to 5,400K continuously.



LUVIS TECHNOLOGY

LUVIS 4K Camera



Designed as a wireless camera, it allows easy installation and use without complex wiring.

The entire suspension system, including the camera, supports 360° rotation, ensuring efficient light positioning during operation.

LUVIS 4K Camera offers 360° rotation, capturing multi-angle video and enabling video recording, real-time monitoring and screen capture from various angles during operation.

With ultra-clear image quality, it accurately documents intricate surgical procedures, making it highly suitable for education, conferences, and remote consultations.



Proprietary technology-based design ensures compatibility between the handle and camera, allowing customized configurations as needed. It can be flexibly installed and operated with both main light and satellite light, enhancing the efficiency of the surgical environment.

The dedicated wireless video transmission application enables monitoring through various devices such as monitors, tablet PC, and smartphones and camera control through tablet PC and wall controller. Recorded videos are easily managed and shared, maximizing operational efficiency and collaboration among medical professionals.



Incorporating the latest technology, LUVIS 4K Camera provides a more efficient surgical environment and delivers a reliable medical experience for healthcare professionals

LUVIS L400
LUVIS M400
LUVIS L200
LUVIS M310
LUVIS M210



LUVIS PRODUCTS SURGICAL LIGHTS

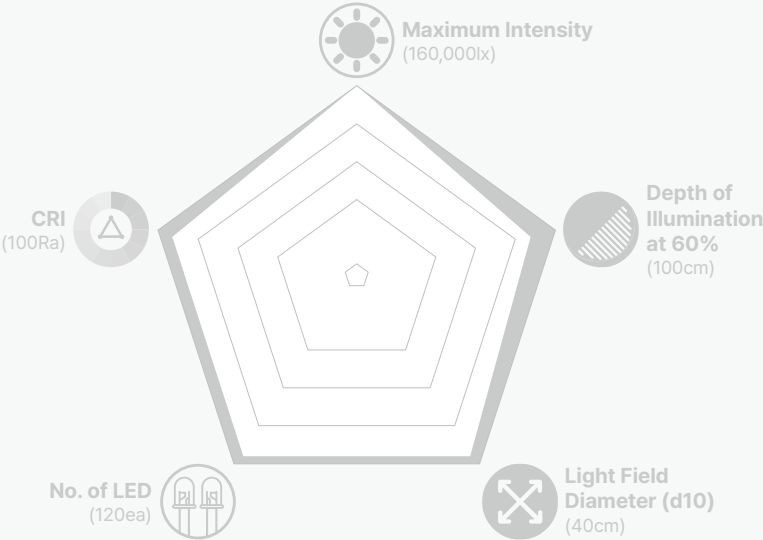


L400



M400

Features



Global Standard



International Certification



High Technology

Smart
Comfortable
Utilitarian



Features



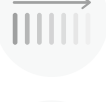
Illumination Intensity
Continuous adjustment
(Max. 160,000lx)



Light Field Diameter
Continuous adjustment
18-34cm



Color Temperature
Continuous adjustment
3,600K-5,400K



Color Rendering Index
Ra 99/R9 99/R13 99



Smart Sensors
Enhancement of shadow dilution
& depth of illumination



ENDO Mode
Suitable for endo-surgery
by one click, Ec*1-10%



Synchronized Control
One controller can control the other at
the same time

Continuously Adjustable Light Intensity,
Color Temperature and Light Field Diameter

Light intensity (Maximum 160,000lx)
Color temperature (3,600K-5,400K)
Light field diameter (18cm-34cm)



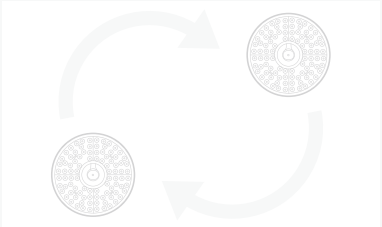
Smart Sensors in LUVIS L400

Detects movements by the surgeon or medical staff,
allowing them to adjust the light's intensity



Synchronized Control

A synchronization system provides convenience and
efficiency by allowing two lights to be controlled simultaneously



Optional Features



4K Camera / Full HD Camera



Tablet PC Controller



Wall Controller



Battery

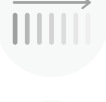
Available
Compatible
Eco-friendly



Features



Illumination Intensity
Continuous adjustment
(Max. 140,000lx)



Color Rendering Index
Ra 99/R9 99/R13 99



Light Field Diameter
Continuous adjustment
18-30cm



Smart Sensors
Enhancement of shadow dilution
& depth of illumination



Color Temperature
Continuous adjustment
3,600K-5,400K



ENDO Mode
Suitable for endo-surgery
by one click, Ec*1-10%



Synchronized Control
One controller can control the other at
the same time

Continuously Adjustable Light Intensity,
Color Temperature and Light Field Diameter

Light intensity (Maximum 140,000lx)
Color temperature (3,600K-5,400K)
Light field diameter (18cm-30cm)



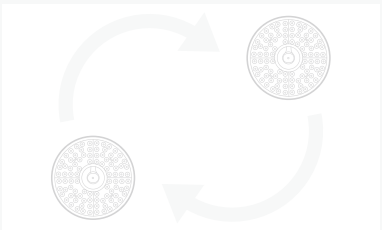
Smart Sensors in LUVIS M400

Detects movements by the surgeon or medical staff,
allowing them to adjust the light's intensity



Synchronized Control

A synchronization system provides convenience and
efficiency by allowing two lights to be controlled simultaneously



Optional Features



4K Camera / Full HD Camera



Tablet PC Controller



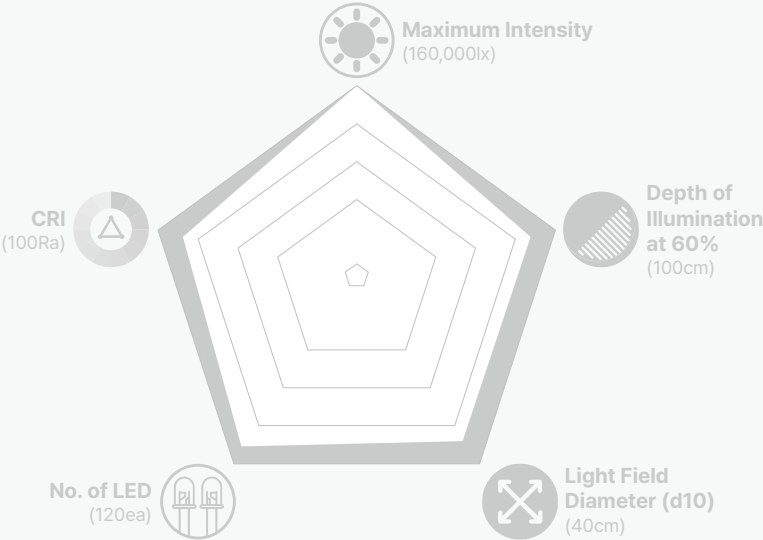
Wall Controller



Battery



Features



User Friendly Design



Professional LED



Robust Reliability

Comfortable
Eco-friendly
Smart



Features



Illumination Intensity
6 levels adjustment (Max. 160,000lx)



Color Rendering Index
Ra 95/R9 90/R13 99



Light Field Diameter
20-30cm



Smart Sensors
Enhancement of shadow dilution
& depth of illumination



Color Temperature
3,800K/4,300K/4,800K



ENDO Mode
Suitable for endo-surgery
by one click, Ec*5%

Smart Sensors in LUVIS L200

Detects movements by the surgeon or medical staff,
allowing them to adjust the light's intensity



User Friendly Design with the Grips

Quick controller & Autoclavable handle



Optional Features



Full HD Camera



Wall Controller



Battery

LUVIS | M310/M210

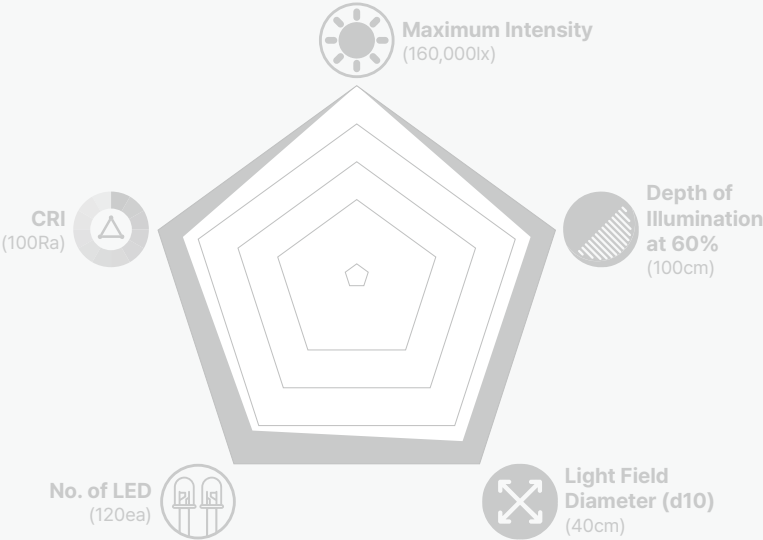


M310



M210

Features



Enhanced Visibility



Professional LED



Healthcare Design

Various
Eco-friendly
Convenient

Features



Illumination Intensity
Max. 160,000lx



Color Temperature
M300: 4,300K
M310: 3,800K/4,300K/4,800K



Light Field Diameter
6 steps adjustment
(20-30cm)



ENDO Mode
Suitable for endo-surgery
by one click, Ec*5%

Smart Sensors in LUVIS M310

Detects movements by the surgeon or medical staff,
allowing them to adjust the light's intensity



Adjustable Color Temperature

The color temperature in the range 3,800K to
4,800K, provide a balance between visibility
and comfort for the surgical team.



Optional Features



Full HD Camera



Wall Controller



Battery

Various
Eco-friendly
Convenient

Features



Illumination Intensity
Max. 120,000lx



Color Temperature
M200: 4,300K
M210: 3,800K/4,300K/4,800K



Light Field Diameter
6 steps adjustment
(20-30cm)



ENDO Mode
Suitable for endo-surgery
by one click, Ec*5%

Adjustable color temperature

The color temperature in the range 3,800K to 4,800K, provide a balance between visibility and comfort for the surgical team.



Detachable Centergrip

Quick controller & Autoclavable handle



Optional Features

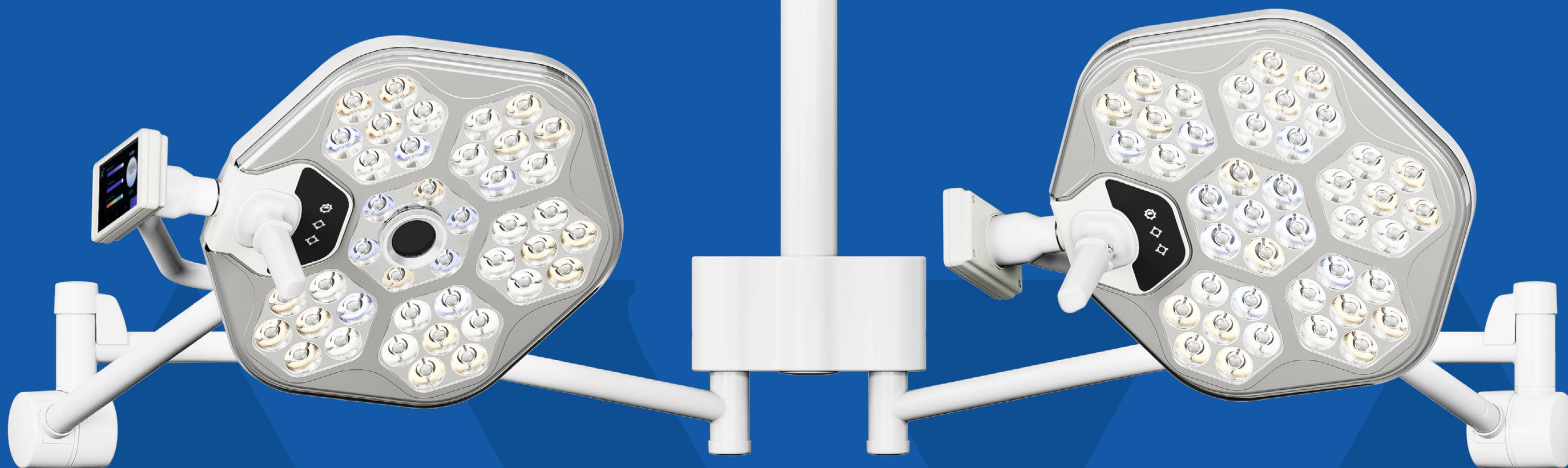


Wall Controller



Battery

LUVIS S300
LUVIS S250
LUVIS S200
LUVIS E100

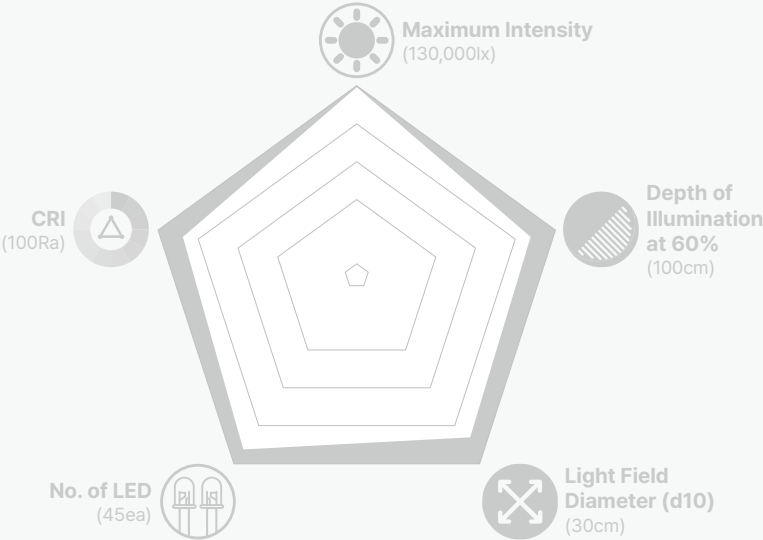


LUVIS PRODUCTS

EXAMINATION LIGHTS



Features



Efficacy and Safety



Consistent Lighting



Eyes Protection

Compatible
Quick
Convenient



Features



Illumination Intensity
3 Step adjustment (Max. 130,000lx)



Color Rendering Index
Ra 96/R9 95



Light Field Diameter
3 Step adjustment (15-25cm)



3 Different Modes
Surgical mode (130,000lx)
Examine mode (60,000lx)
Dental mode (30,000lx)



Color Temperature
3,800K/4,300K/4,800K

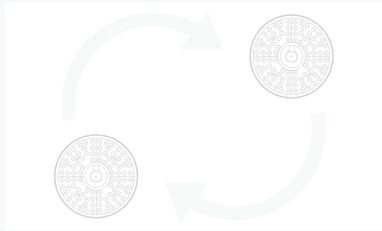
ARM Touch Control (5" LCD)

- Light (1 or 2) Control**
- Light 1/Light 2 select
 - Light ON/OFF
 - Light field diameter, Intensity, Color temperature
- Sync Mode**
- Light (1 and 2) sync

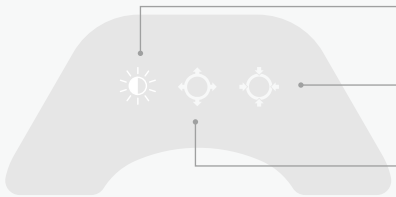


Synchronized Control

A synchronization system provides convenience and efficiency by allowing two lights to be controlled simultaneously



Handle Touch Control
(Quick & Easy)



Intensity Control
(1 → 2 → 3 → 1, Rotate)

Light Field Decrease

Light Field Increase

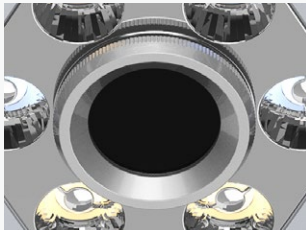
Optional Features



Tablet PC Controller



Remote Controller



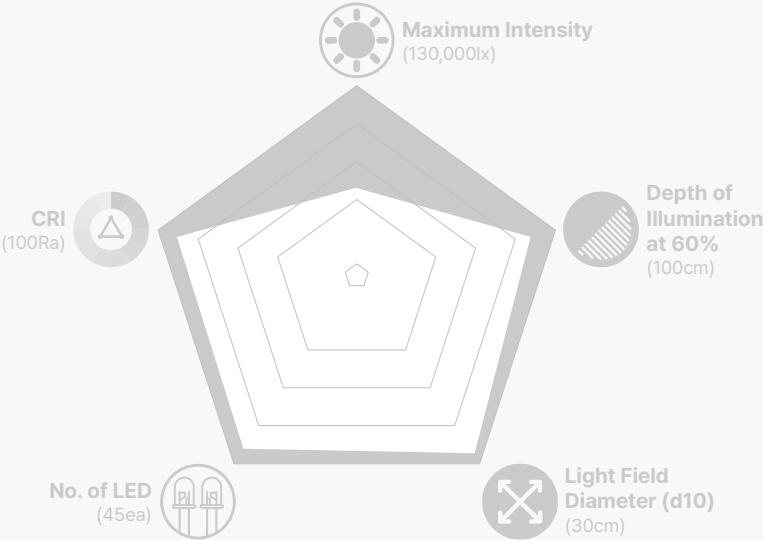
Full-HD Camera



Battery



Features



New and Smart Design



High Energy Efficiency



Easily Adjustment

Quick
Various
Eco-friendly



Features



Illumination Intensity
3 Step adjustment (Max. 110,000lx)



Color Rendering Index
Ra 97/R9 97



Light Field Diameter
3 Step adjustment (15-25cm)

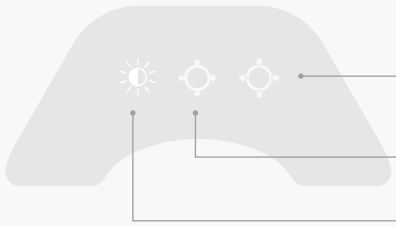


ENDO Mode
3 Step adjustment
(5,000lx-15,000lx)



Color Temperature
3,800K/4,300K/4,800K

Handle Touch Control
(Quick & Easy)



Light Field Decrease

Light Field Increase

Intensity Control
(1 → 2 → 3 → 1, Rotate)

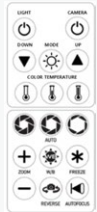
ARM Touch Control
(Intuitive)

- Light Control**
- Brightness (Intensity) 3 step
 - Light field diameter 3 step
 - Color temperature 3 step



- Max. Mode**
- Light field diameter 3 level
 - Intensity 3 level
- Endo Mode**
- Light field diameter 1 level
 - Intensity & Color temperature 3 step (5,000lx-15,000lx)
- Light ON/OFF**

Optional Features



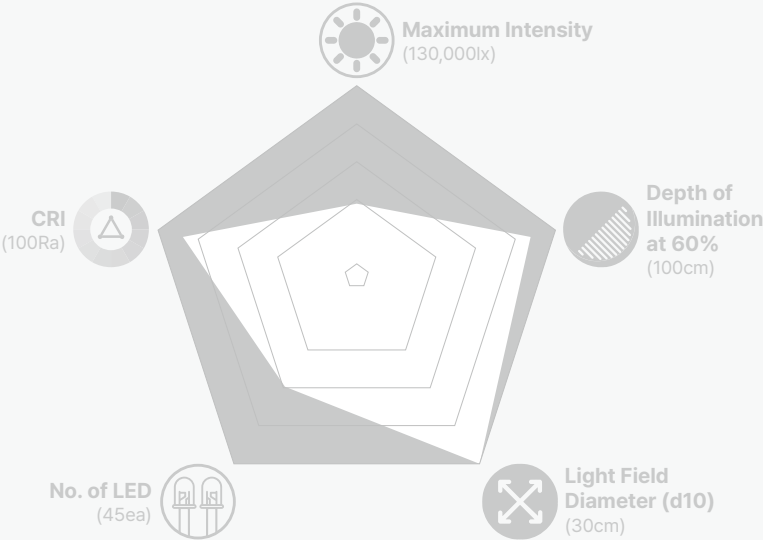
Remote Controller



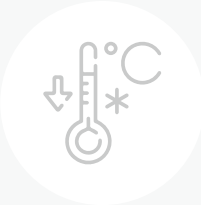
Battery



Features



Energy Saving



Low Heating



Simple Handling



Excellent
Various
Easy

Features



Illumination Intensity
5 levels adjustment (Max. 100,000lx)



Color Temperature
3,800K/4,300K/4,800K



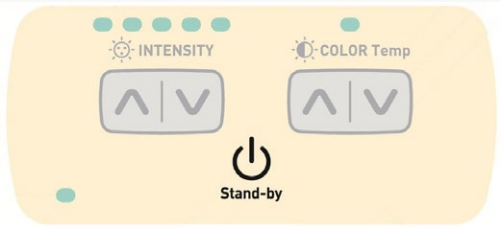
Light Field Diameter
Selectable focal size (18cm/30cm)
by rotating main handle



Color Rendering Index
Ra 90

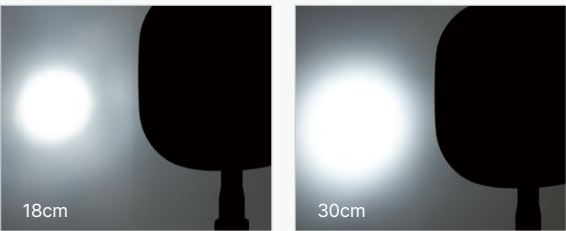
Easy Control

- Intensity: 100,000lx (Max.)
- Color temperature: 3,800K/4,300K/4,800K
- Light field diameter: d18cm/30cm



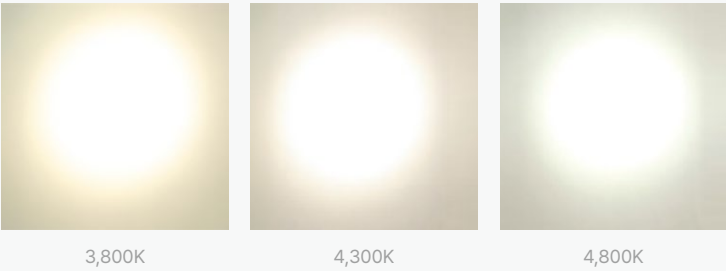
Adjustable Light Field Diameter

Light field diameter adjustment from 18cm to 30cm allows for light adjustment suitable for the surgical environment



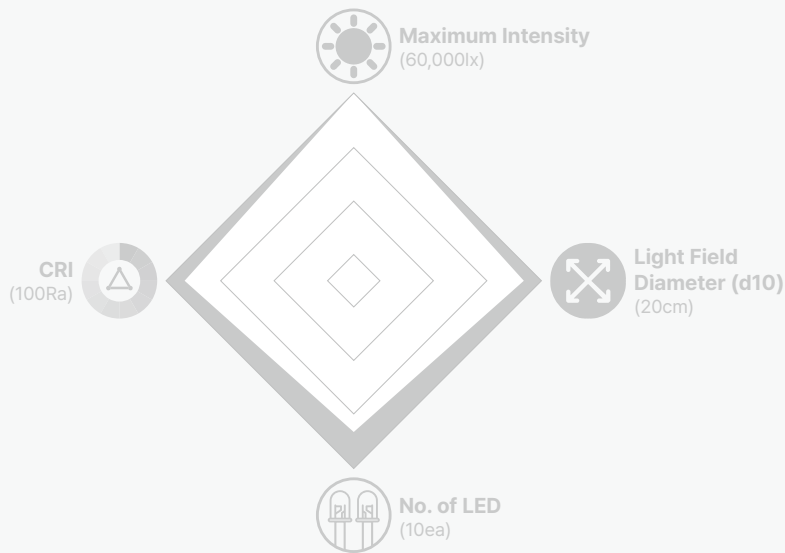
Adjustable Color Temperature

The color temperature in the range 3,800K to 4,800K, provide a balance between visibility and comfort for the surgical team.





Features



Medical Treatment



Comfortable Type



Simple and Easy

Simple
Clear
Affordable



Features



Illumination Intensity
3 levels adjustment (Max. 60,000lx)



Color Temperature
3,500K/4,000K/4,500K



Light Field Diameter
17cm



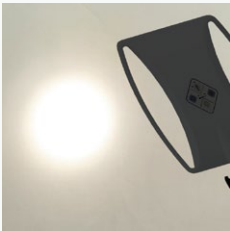
Color Rendering Index
Ra 95

Adjustable Color Temperature

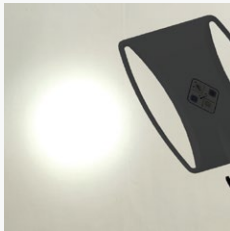
The color temperature in the range 3,500K to 4,500K, provide a balance between visibility and comfort for the surgical team



3,500K



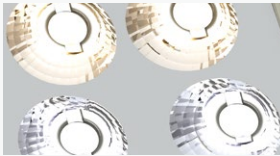
4,000K



4,500K

Easy to Install and Use

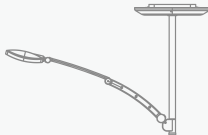
Simplified way of installation and intuitive control panel offers easy-to-use method



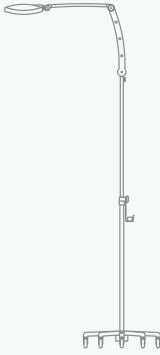
Various Installation



Wall Type



Ceiling Type



Mobile Type

LUVIS PRODUCTS DENTAL LIGHTS



LUVIS C600/700
LUVIS C500
LUVIS C300/400

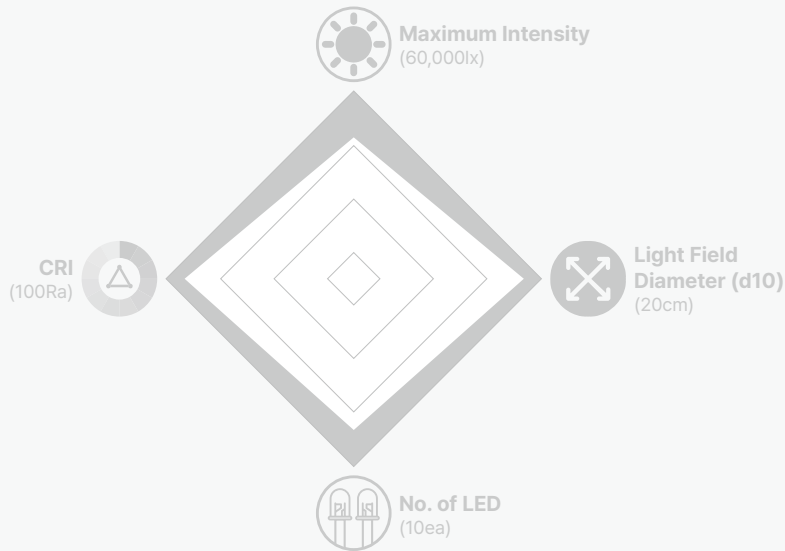


C700

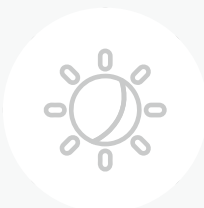


C600

Features



User Friendly Design



Natural Light



Hybrid LED System

Hybrid
Available
Convenient



Features



Illumination Intensity
Max. 50,000lx



Color Temperature
5,000K



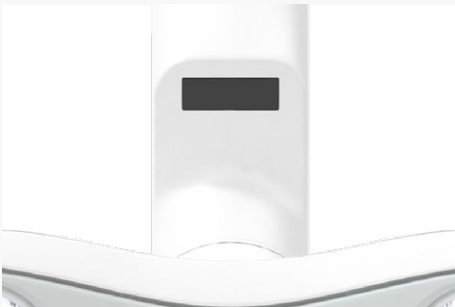
Light Field Diameter
16×9cm



Color Rendering Index
Ra 95

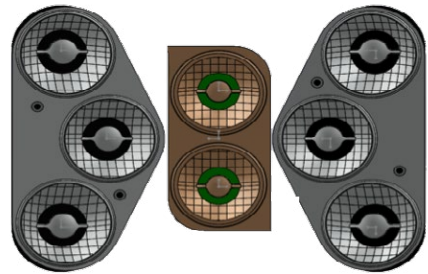
Motion Sensor (Light ON/OFF)

- Light ON/OFF sensor (within 5cm)
to prevent cross contamination



Hybrid Optical Design

- Reflector+shield type with a multiangle design
- Lightweight optical design without lenses,
eliminating color separation in patterns



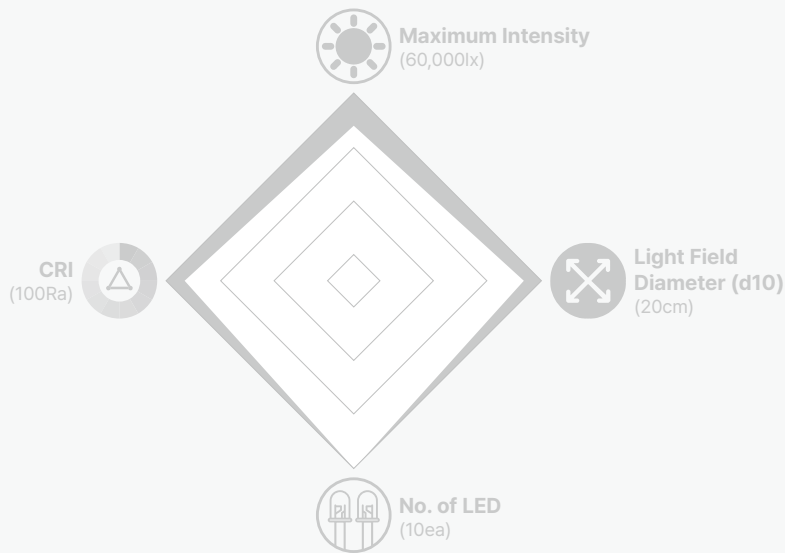
Resin Mode with a One Touch

- Optically designed for cases that involve resin
with a dedicated LED
- Almost no UV wavelength





Features



Recording System



Brilliant Light



High Reliability

Convenient
Multiple
Available



Features



Illumination Intensity
Max. 50,000lx



Light Field Diameter
16×9cm



Color Temperature
4,000K/4,500K/5,000K



Color Rendering Index
Ra 95



4K/FULL HD camera
Recording & Capture control

Convenient Use of Control



Touch Control
(color temperature)

Dial Control

Proximity Sensor and Resin Mode



Proximity Sensor
Select Mode : Dental / Resin
(Within 2cm)

Resin Mode with a One Touch
- Optically designed for cases that involve resin with a dedicated LED
- Almost no UV wavelength



Optional Features



Remote Controller



4K/FULL HD camera

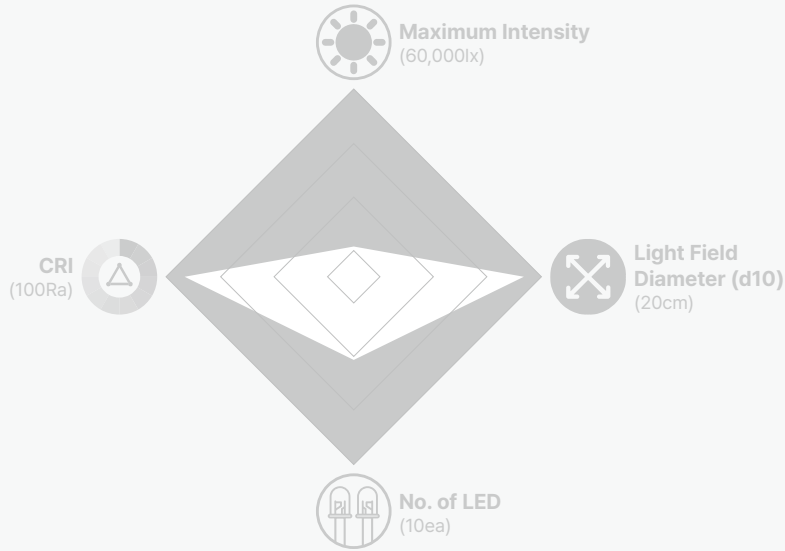


C400



C300

Features



Transmutable Light

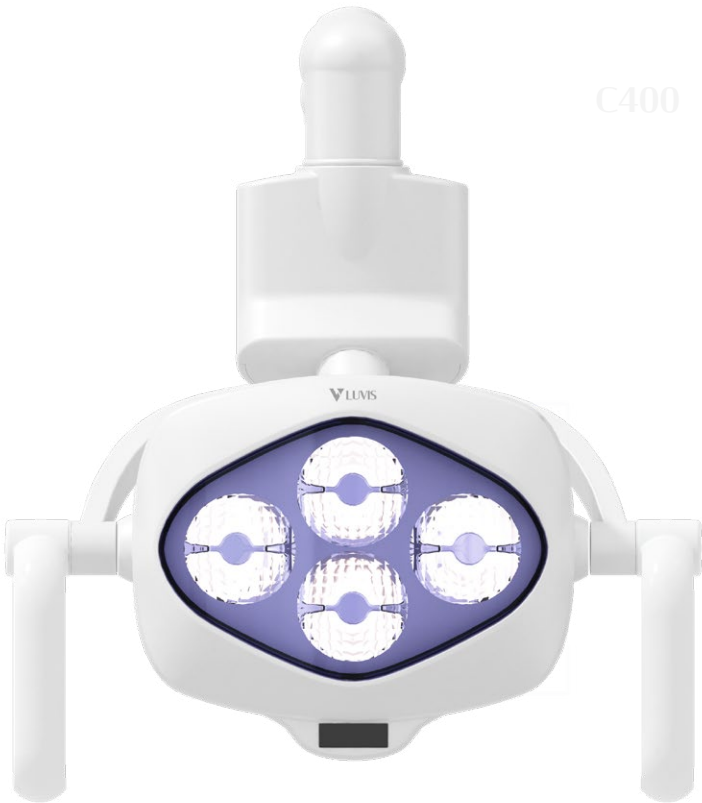


Energy Saving

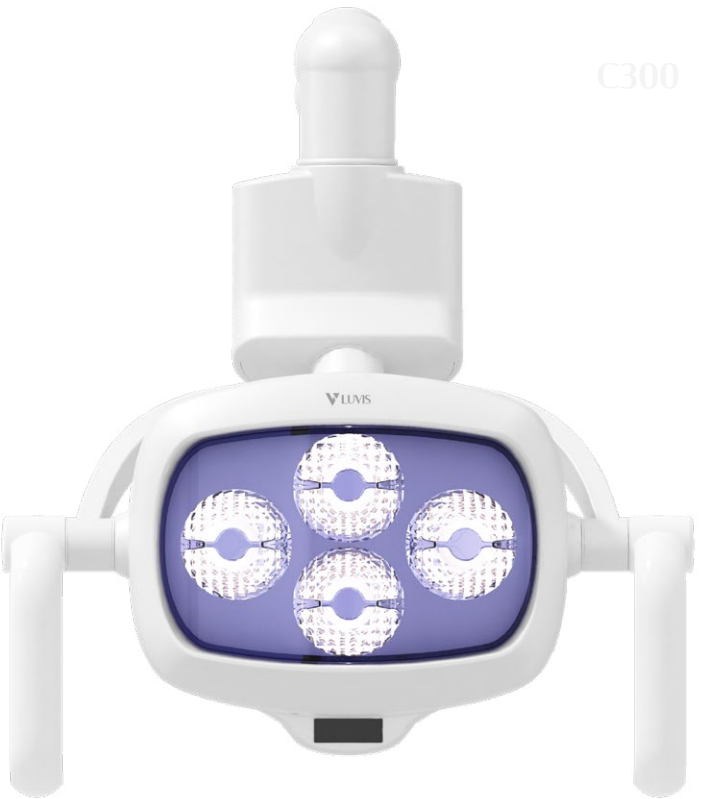


Low Heating

Easy
Clear
Simple



C400



C300

Features



Illumination Intensity
Max. 25,000lx



Color Temperature
5,000K



Light Field Diameter
15×9cm



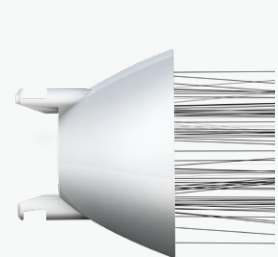
Color Rendering Index
Ra 90

Hybrid LED Reflector

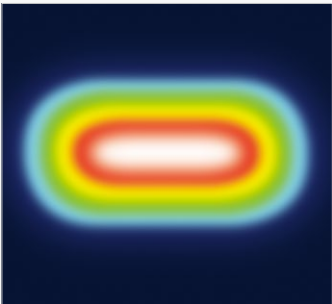
A Hybrid optical system is a hybrid product that combines a reflector and lenses. It performs various functions such as color temperature and light field diameter adjustment with low power consumption



Configuration of a single module



Optical path by a single module



Pattern shape

Smart Sensor

Light ON/OFF sensor (within 2cm)



Detachable Handgrip

Sterilizable & Removable handles for hygienic use



Technical Specification

Model		L400	M400
Design (light head)			
Head Size (cm)		Ø 73	Ø 63
No. of LED (ea)		112	72
Central Illumination Ec (lx)		160,000	140,000
Electronic Adjustment Range (%)		10-100 (continuous)	10-100 (continuous)
Endo Mode (Illumination, lx)		1,600-16,000 (1-10% continuous)	1,400-14,000 (1-10% continuous)
Color Temperature (K)		3,600-5,400 (continuous)	3,600 - 5,400 (continuous)
Color Rendering Index (Ra/R9/R13)		99/99/99	99/99/99
Light Field Diameter (d10, cm)		18-34 (continuous)	18-30 (continuous)
Light Field Diameter (d50, cm)		10-19	10-18
Shadow Dilution (%)	With Tube	95	100
	With 1 mask/With 1 mask+tube	92/85	85/85
	With 2 mask/With 2 mask+tube	70/65	70/70
Depth of Illumination at 60% (cm)		85	80
Illumination Energy (W/m²)		570	498
Power Consumption (VA)		105	72
Life Span (Hr)		60,000	60,000
Detachable Centre Grip		Yes(2X)	Yes(2X)
Certificate		CE/UL/FDA	CE/UL/FDA
Installation Type		Single Ceiling Dual Ceiling Mobile	Single Ceiling Dual Ceiling Mobile
Option		Full-HD Camera 4K Camera Tablet PC(App) Wall Controller Backup Battery	Full-HD Camera 4K Camera Tablet PC(App) Wall Controller Backup Battery

L200		M310	M210
			
66×66		60×60	50.6×50.6
96		84	54
160,000		160,000	120,000
25-100		25-100	30-100
8,000		8,000	6,000
3,800/4,300/4,800		M300: 4,300 M310: 3,800/4,300/4,800	M200: 4,300 M210: 3,800/4,300/4,800
95/90/99		95/90/95	95/90/95
20-30		20-30	20-30
12-18		12-18	12-18
98		100	100
80/70		65/60	50/50
70/65		55/50	48/48
85		90	65
546		540/540	419/428
67		M300: 106-131 M310: 88-117	M200: 72-102 M210: 79-111
60,000		60,000	60,000
Yes(2X)		Yes(2X)	Yes(2X)
CE/UL/FDA		CE/UL/FDA	CE/UL/FDA
Single Ceiling Dual Ceiling Mobile		Single Ceiling Dual Ceiling Mobile	Single Ceiling Dual Ceiling Mobile
Full-HD Camera Wall Control Box Backup Battery		Full-HD Camera Wall Control Box Backup Battery	Full-HD Camera Wall Control Box Backup Battery

Technical Specification

Model		S300	S250
Design (light head)			
Head Size (cm)		42.2×40.9	37.2×38
No. of LED (ea)		S300 : 42 S300 CAM : 41	34
Central Illumination Ec (lx)		130,000	110,000
Electronic Adjustment Range (%)		40-100	40-100
Endo Mode (Illumination, lx)		-	5,000 - 15,000 (3 level)
Color Temperature (K)		3,800/4,300/4,800	3,800/4,300/4,800
Color Rendering Index (Ra/R9/R13)		96/95/99	97/97/99
Light Field Diameter (d10, cm)		15-25	15-25
Light Field Diameter (d50, cm)		9-15	9-15
Shadow Dilution (%)	With Tube	100	100
	With 1 mask/With 1 mask+tube	-	-
	With 2 mask/With 2 mask+tube	50/50	50/50
Depth of Illumination at 60% (cm)		S300 : 75 S300 CAM : 70	80
Illumination Energy (W/m²)		454	376
Power Consumption (VA)		S300 : 61 S300 CAM : 77	61
Life Span (Hr)		60,000	60,000
Detachable Centre Grip		Yes(2X)	Yes(2X)
Certificate		CE/UL/FDA	CE/UL/FDA
Installation Type		Single Ceiling Dual Ceiling Mobile Wall	Single Ceiling Dual Ceiling Mobile Wall
Option		S300 : Tablet PC(App) / Backup Battery S300 CAM : Full-HD Camera / Tablet PC(App) / Backup Battery	Backup Battery Remote Controller

S200	E100
	
35×34×11	25×24.6×6.6
18	8
100,000	60,000 (50cm)
5-100	50-100
-	-
3,800/4,300/4,800	3,500/4,000/4,500
90/80/95	95/90/97
18/30	17
9.5/16.5	9.5
100	-
-	-
48/48	-
78	-
331	217
45-67	28-46
60,000	60,000
Yes(2X)	-
CE/UL/FDA	CE/UL/FDA
Single Ceiling Dual Ceiling Mobile Wall	Single Ceiling Mobile Wall Clamp
-	-

Technical Specification

Model	C700/C600	C500	C400/C300
Design (light head)			
Head Size (cm)	26.3×19.6×7.6	28.4×16.5×11.8	20.8×18.0×8.0
No. of LED (ea)	8	10	4
Central Illumination Ec_dental (lx)	50,000	50,000	25,000
Central Illumination Ec_resin (lx)	10,000	10,000	-
Electronic Adjustment Range (%)	10-100	10-100	20-100
Color Temperature (K)	5,000	4,000/4,500/5,000	5,000
Color Rendering Index (Ra)	95	95	90
Light Field Diameter (d10,cm)	16×9	16×9	15×9
Size of Area (inside pattern A, cm)	7×5	7.5×3.5	6.5×4
Size of Area (inside pattern B, cm)	10×6	10×5	9×6
Hard Shadow (mm)	3×3	7×3	12×8
Illuminance in Patient's eyes (lx)	≤1,200	≤1,200	≤1,000
Power Consumption (VA)	20-21	24	13
Irradiance (W/m²)	<200	160	85
Life Span (Hr)	60,000	60,000	60,000
Certificate	CE/UL/FDA	CE/UL/FDA	CE/UL/FDA
Installation Type	Chair Wall Ceiling	Chair Wall Mobile Ceiling	Chair Wall Ceiling
Option	-	Full-HD Camera 4K Camera	-

Multifaceted Configuration





Single Arm
Only Light



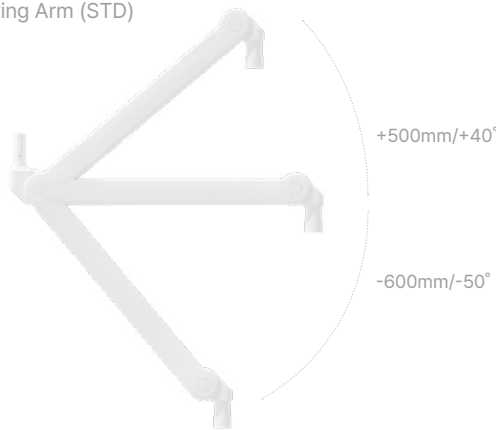
Dual Arm
Light + Light
or
Light + Monitor



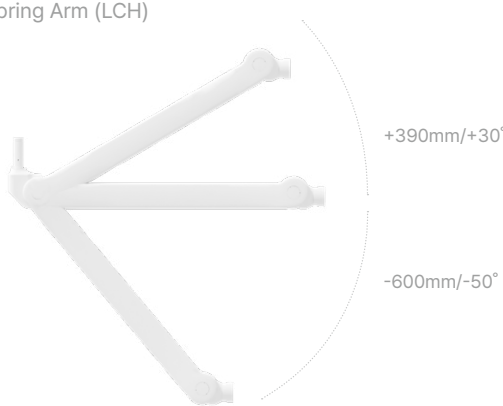
Triple Arm
Light + Light + Light
or
Light + Light + Monitor



Spring Arm (STD)



Spring Arm (LCH)



Features



Keep Head Controller Level During Arm UP/DOWN Operation (LCH)



Keep the Head Control Part Level (LCH)

Technical Specification

■ Ceiling Type

Type		1 Fold/2 Fold/3 Fold
Arm Length (mm)		1,000/850/700
Electric		3P slip ring, 100-240Vac/28Vdc/ Max.10A
Ceiling Canopy (mm)		Φ600×140
Color		RAL 9010
Weight (kg)		12/19/31
*Accessory (monitor)	Tilt Angle	Up: 0°/Down: 70°
	Monitor Size	32inch/5kg (max)
	Color	RAL 9010

■ Mobile Type

Type	Basic/Battery
Electric	3P slip ring, 100~240Vac/28Vdc/ Max.10A
Color	RAL 9010
Weight (kg)	60 (only mobile parts)

■ Spring Arm

Type	STD (90° maintain fixed angle)
	LCH (180° maintain fixed angle)
Arm Length (mm)	STD: 900/LCH: 940
Electric	3P slip ring, 100~240Vac/28Vdc/Max.10A
Payload	STD: 5~9kg, 9~15kg, 14~21kg
	LCH: 91~136Nm, 125~204Nm
Color	RAL 9010
Weight (kg)	STD/LCH: 8

