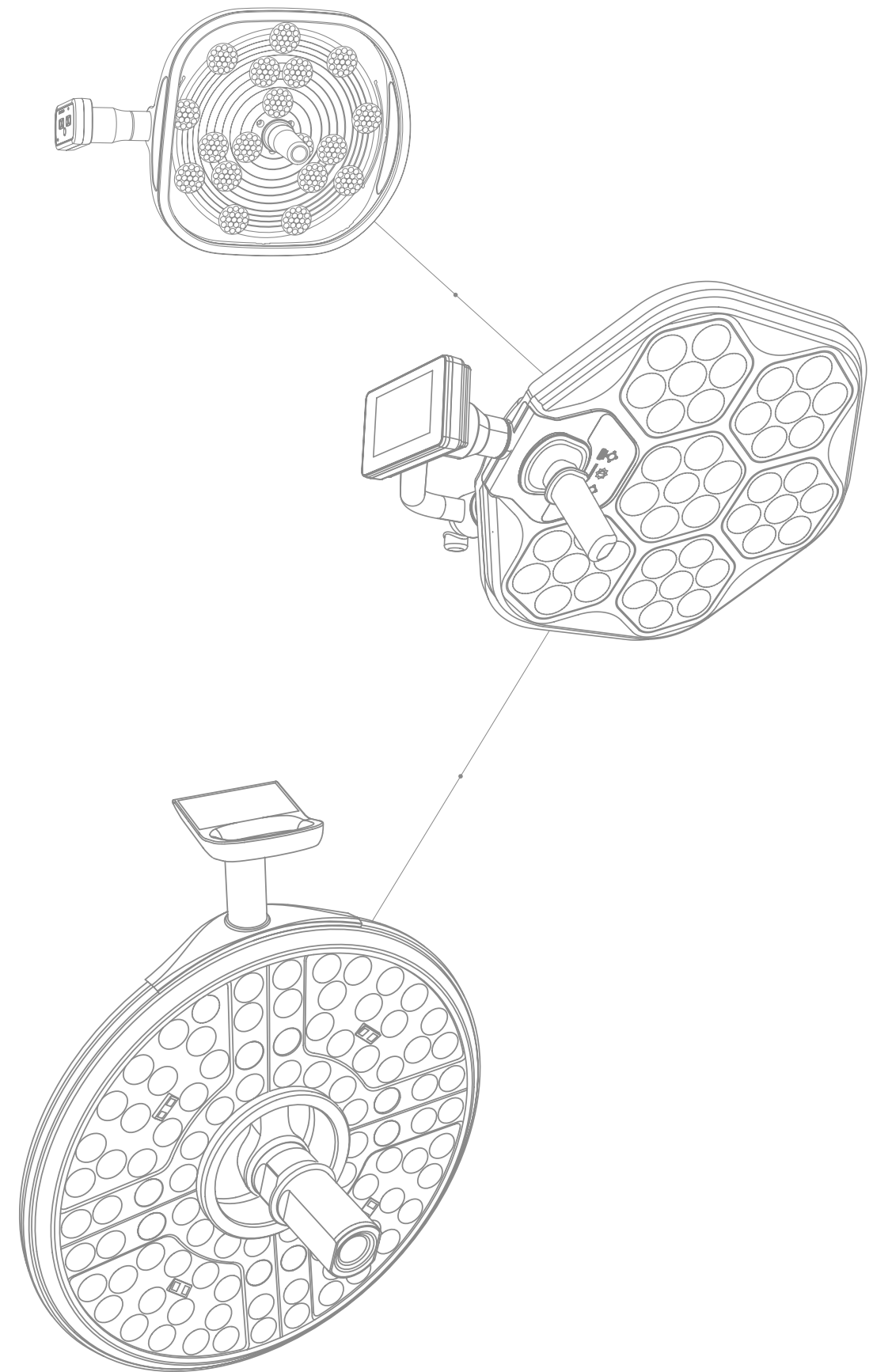






Medical LED Illumination

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

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Luvis L400

160,000 lx

Luvis M400

140,000 lx

OT Light
(L400)▼

OT Light
(M400)▼

- SYNC** **Synchronized Control**
One controller can control the other at the same time
- Illumination Intensity**
5 Steps Adjustment
(L400 160,000 lx / M400 140,000 lx)
- Light Field Size**
5 Steps Adjustment (Max. 30cm / Min. 18cm)
- Color Temperature**
3,600K / 4,200K / 4,800K / 5,400K

- Color Rendering Index**
Ra 97 / R9 97
- ENDO MODE**
Suitable For Endo-Surgery
by one click, Ec*5%
- Smart Sensor**
Enhancement of Shadow Dilution
& Depth of Illumination

Hybrid LED System
Lower heat emission & Less
consumption of energy



Smart Sensor
Detect the obstacle & increase
the intensity automatically



Battery Type
DC 14.8 V, 26 Ah, 3.8 kg
3 hours when fully charged(100%)



Tablet PC
Android APP, IOS APP

- ✓ OT Light & Camera Control
- ✓ Sync Control

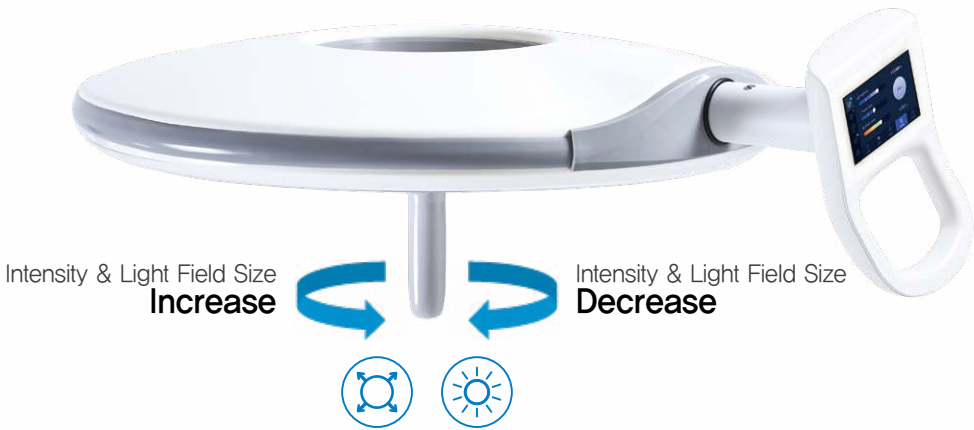


① Full-HD Camera



Specifications	
Image Sensor	1/2.8 – Type CMOS
Lens	30 X Optical Zoom
Image Point	Approx. 2,13 Megapixels
Video System	Full HD 1080p(1,920 X 1,080)
Video Output Signal	Digital : HD-SDI (BNC) Analog : Component (Y/Pb/Pr)

② Handle Control



③ ARM Control Panel

OT Light 1 or 2 Control (Sync)

Light ON/OFF
Light Field Size, Intensity, Color Temp.
Mode Select(Endo, Max., Depth, Handle)

Camera Control

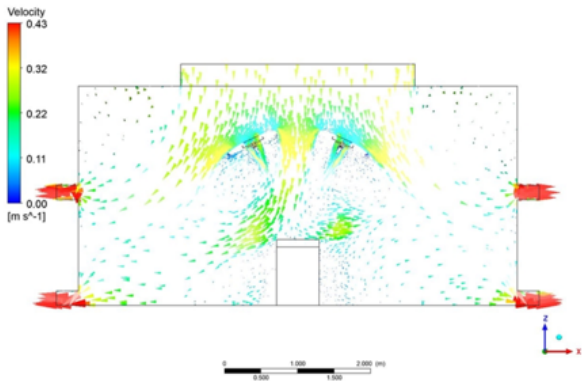
Zoom In/Out, White Balance
Auto Focus, Freeze

Setting

Room No., Version.



Turbulence intensity, DIN 1946-4
Result of manufacturer's simulation



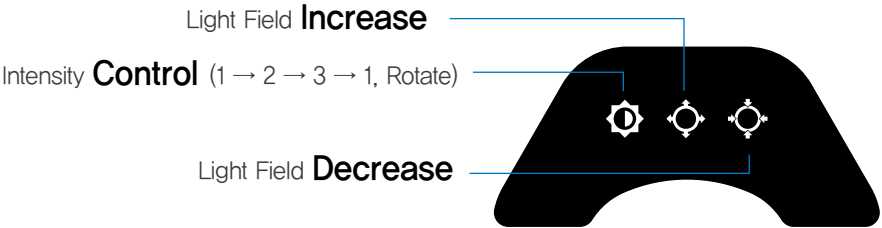
Luvís S300

130,000 lx



- Illumination Intensity**
3 levels adjustment (Max. 130,000 lx)
- Light Field Size**
3 levels adjustment (Max. 25cm / Min. 15cm)
- Color Temperature**
3,800K / 4,300K / 4,800K
- Color Rendering Index**
Ra 96 / R9 95
- 3 Different Modes**
Surgical mode (130,000 lx)
Examine mode (60,000 lx)
Dental mode (30,000 lx)

Handle Touch Control
(Quick & Easy)



ARM Touch Control



OT Light 1 or 2 Control (Sync)

- Light 1 / Light 2 Select
- Light Field Size, Intensity, Color Temp
- Mode Select(Dental, Examination, Max.)

Setting

- Room No., Version

Dental Mode

- Dental Light ON/OFF
- Intensity Control

Examination Mode

- Examin. Light ON/OFF
- Intensity, Color Temp. Control

Max. Mode_OT Light

- Light Field Size 3 Level and Intensity 3 Level Setting

Light On/Off

OT Light 1
(S300)▼

OT Light 2
(S300)▼



Tablet PC
(Android APP, IOS APP)

- ✓ OT Light Control
- ✓ Sync Control

Battery Type

DC 14.8 V, 26 Ah, 3.8 kg
3 hours when fully charged(100%)



Synchronized Intuitive Control Panel

Touch sensor control



Illumination Intensity
160,000 lx (Max.)

Light Field Size
6 steps adjustment
(Max. 30cm / Min. 20cm)

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

ENDO-MODE
Suitable for endo-surgery
by one click, EC*5 %

Full-HD Camera
(Optional)

Installation Guide Video



Model	TYPE
L/L200	DUAL CEILING

Other Configuration



Full HD Camera

Specifications	
Image Sensor	1/2.8 – Type CMOS
Lens	30 X Optical Zoom
Image Point	Approx. 2,13 Megapixels
Video System	Full HD 1080p(1,920 X 1,080)
Video Output Signal	Digital : HD-SDI (BNC) Analog : Component (Y/Pb/Pr)



Wall Controller

Classification	Description
Range of wireless Com.	<10m
Protocol of Wireless Com.	IEEE802.15.4 (ISM 2.4GHz)
Input	AC 100–240V, 50/60Hz
Output	DC 28 V x 2

320° Rotating Arm

With Full HD Camera

Hybrid LED System

Lower heat emission & Less consumption of energy



Center Grip

Quick controller & Autoclavable handle



Smart Sensor

Detect the obstacle & Increase the intensity automatically

Battery Type

DC 14.8 V, 26 Ah, 3.8 kg
3 hours when fully charged(100%)



Model	TYPE
L200	SINGLE CEILING

Synchronized Intuitive Control Panel

Touch sensor control



Illumination Intensity

M300, M310 : 160,000 lx (Max.)
M200, M210 : 120,000 lx (Max.)



Light Field Size

6 steps adjustment
(Max. 30cm / Min. 20cm)



Color Temperature

M310, M210 : 3,800K / 4,300K / 4,800K
M300, M200 : 4,300 K



ENDO-MODE

Suitable for endo-surgery by
one click, EC*5 %

Center Grip

Quick controller &
Autoclavable handle



Other Configuration



Model	TYPE
M/M300	DUAL CEILING
M/M310	DUAL CEILING



360° Rotating Arm

Smart Sensor

Detect the obstacle & Increase
the intensity automatically



Hybrid LED System

Lower heat emission & Less
consumption of energy



Battery Type

DC 14.8 V, 26 Ah, 3.8 kg
3 hours when fully charged(100%)



Model	TYPE
M300	SINGLE CEILING
M310	SINGLE CEILING



Model	TYPE
M200	SINGLE CEILING
M210	SINGLE CEILING



Model	TYPE
M/200	DUAL CEILING
M/210	DUAL CEILING

Intensity Control
in 5 Steps

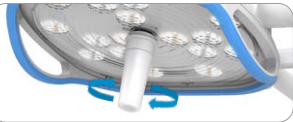


 **Illumination Intensity**
100,000 lx (Max.)

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

Adjustable Focus
Select focal size easily
18cm or 30cm

Detachable Handgrip
Easy and stable handling
autoclavable material



Other Configuration



Mobile Type



Ceiling Type



Wall Type

Luvis S300 Mobile Type

130,000 lx



Battery Type

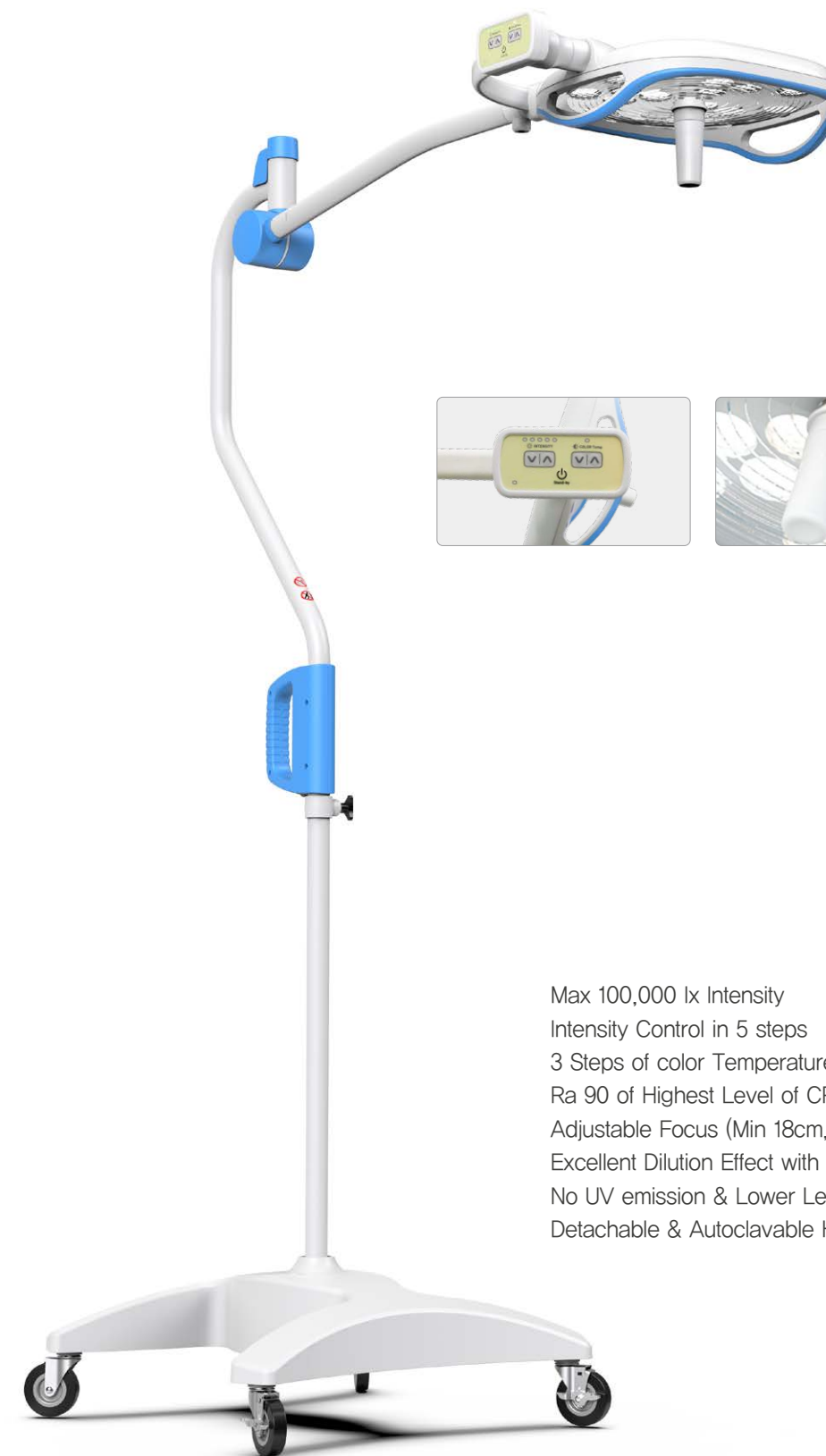
DC 14.8 V, 26 Ah, 3.8 kg
3 hours when fully charged(100%)



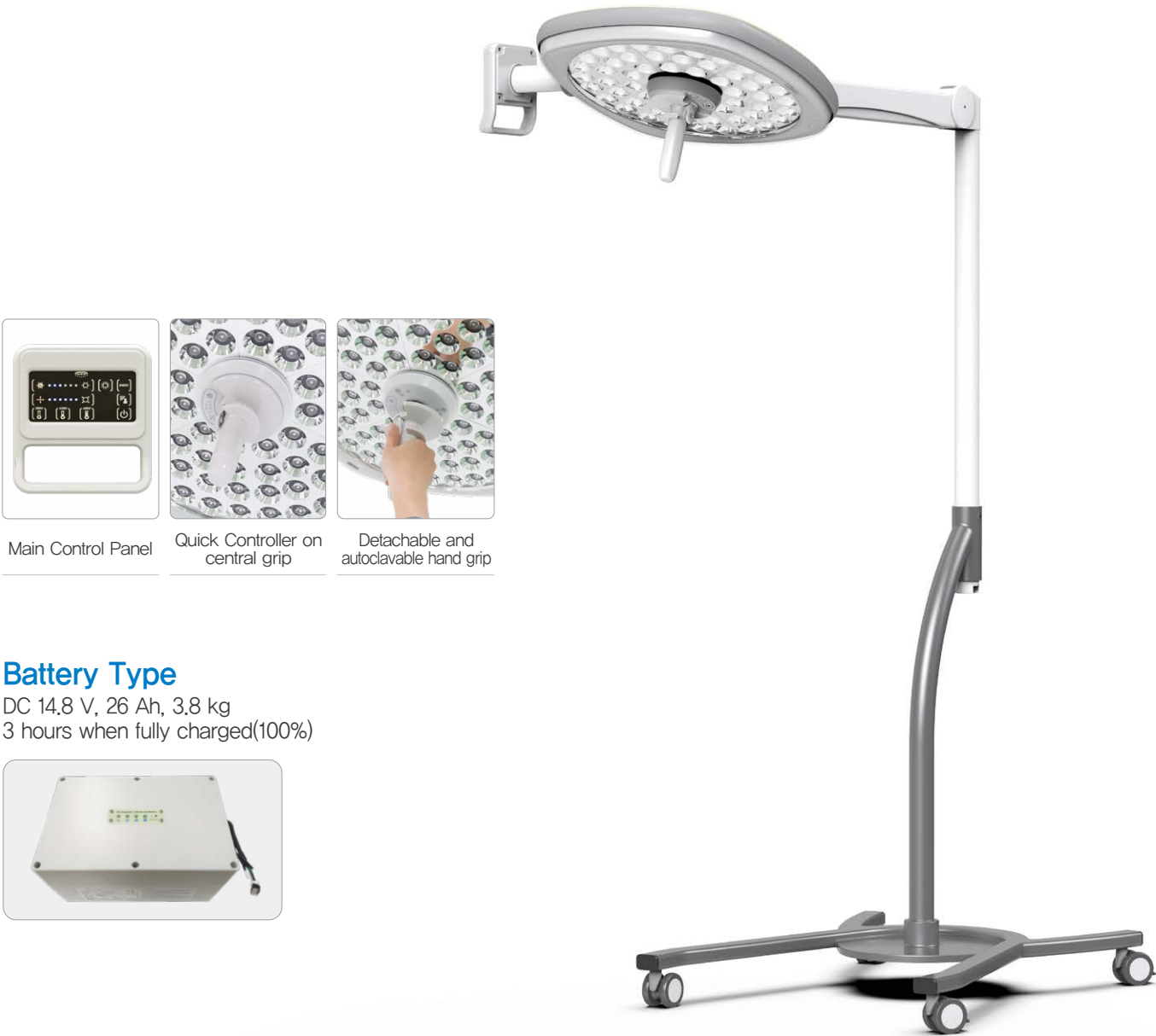
Max 130,000 lx Intensity
Intensity Control in 3 steps
3 Steps of color Temperature selectable (3,800K / 4,300K / 4,800K)
Ra 96 of Highest Level of CRI
Adjustable Focus (Min 15cm, Max 25cm)
Excellent Dilution Effect with 42 LED Units
No UV emission & Lower Level of heat emission
Detachable & Autoclavable Hand Grip

Luvis S200 Mobile Type

100,000 lx



Max 100,000 lx Intensity
Intensity Control in 5 steps
3 Steps of color Temperature selectable (3,800K / 4,300K / 4,800K)
Ra 90 of Highest Level of CRI
Adjustable Focus (Min 18cm, Max 30cm)
Excellent Dilution Effect with 18 LED Units
No UV emission & Lower Level of heat emission
Detachable & Autoclavable Hand Grip



Battery Type

DC 14.8 V, 26 Ah, 3.8 kg
3 hours when fully charged(100%)



Max 120,000 lx Intensity
Color Temperature (M200 : 4,300K / M210 : 3,800K / 4,300K / 4,800K)
Excellent Depth of Volume of Light (L1+L2 125 cm)
Ra 95 of Highest Level of CRI
Color Rendering Index
Adjustable Focus Size (Dia.20cm~Dia.30cm)
Excellent Dilution Effect with 54 LED units (48%~100%)
No UV emission & Lowest level of heat emission
Intuitive control with one touch panel
Detachable & Autoclavable Hand Grip
Ergonomic & friendly design

Model	TYPE
M200	MOBILE
M210	MOBILE



Smart Sensor

Smart sensor will detect the obstacle and increase the Intensity automatically.
So Luvis can deliver more stable illumination



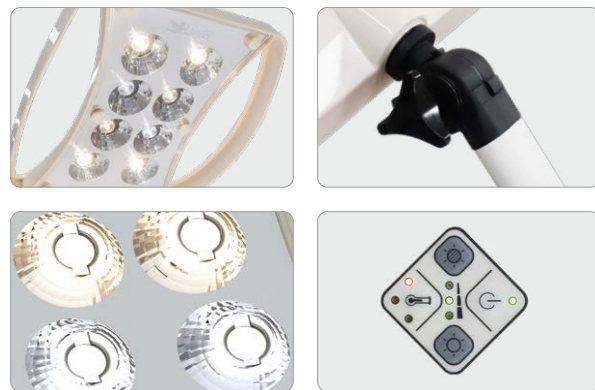
Battery Type

DC 14.8 V, 26 Ah, 3.8 kg
3 hours when fully charged(100%)



Max 160,000 lx Intensity
Color Temperature (M300 : 4,300K / M310 : 3,800K / 4,300K / 4,800K)
Excellent Depth of Volume of Light (L1+L2 150 cm)
Ra 95 of Highest Level of CRI
R9 90 of red color rendering ability
Selectable Focal Size (Dia.20cm~Dia.30cm)
Excellent Dilution Effect with 84 LED units (48%~100%)
4 Smart Sensors for maintaining intensity
Dentis Patent Channel Illumination Technology
Intuitive control with one touch panel
No UV emission & Lowest level of heat emission
Detachable & Autoclavable Hand Grip
Ergonomic & friendly design

Model	TYPE
M300	MOBILE
M310	MOBILE



Battery Type

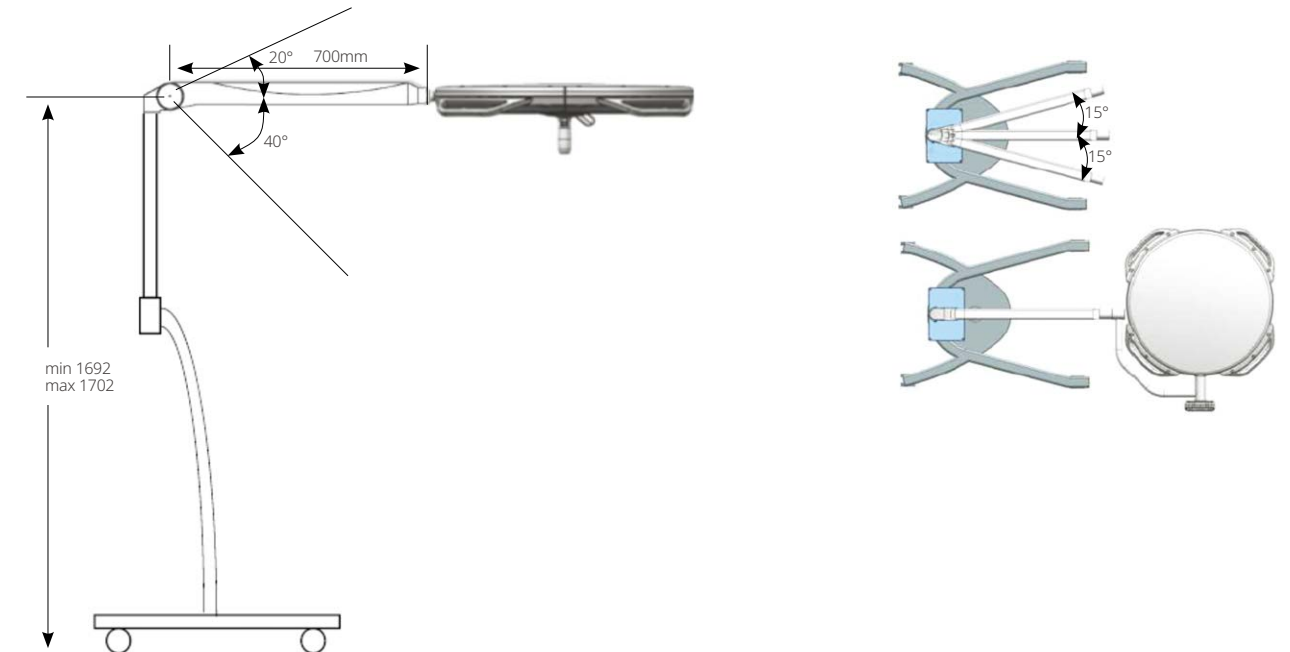
DC 14.8 V, 7.8 Ah, 2.7 kg
3 hours when fully charged(100%)



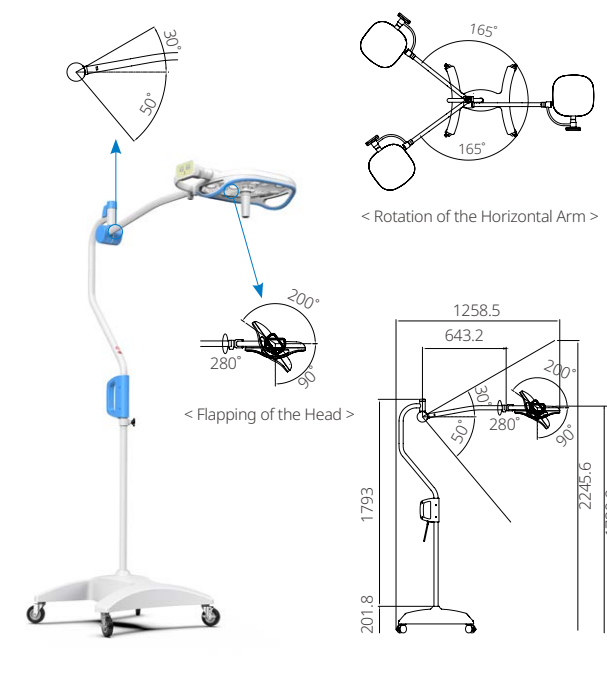
High Level of Illumination Intensity : 60,000 lx at 0.5m
17cm Focal Size
3 step of Intensity control
Accurate Color Rendering Ra>95
3 Steps of Color Temperature selectable (3,500K / 4,000K / 4,500K)
Easy to use, simple control unit on the head
Low maintenance cost
Lowest heat emission and no UV from the light

Movement & Installation

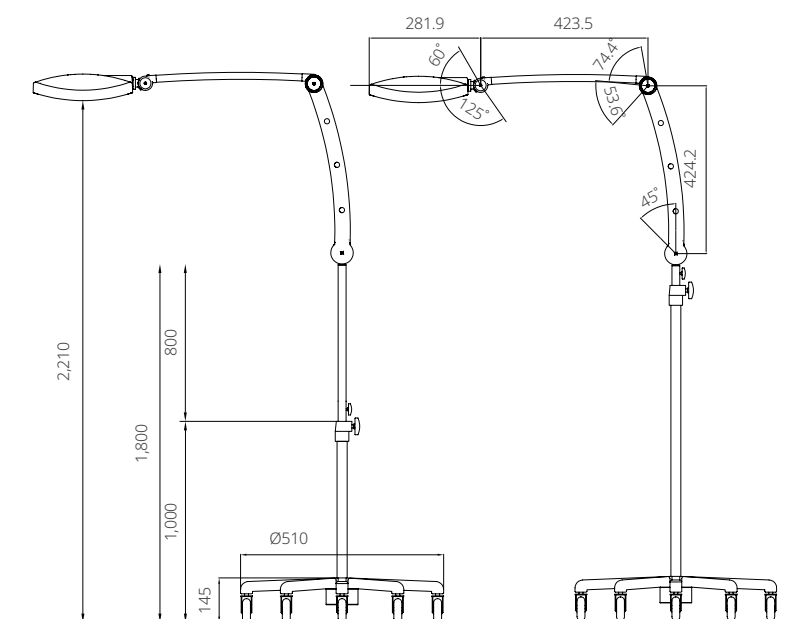
Luvis M/L Dimension (Unit : mm)



Luvis S200 Dimension (Unit : mm)



Luvis E100 Dimension (Unit : mm)



Technical Specification

Model	L400	L200	M300	M400
Design (Light Head)				
Installation	Single Ceiling Dual Ceiling Mobile	Single Ceiling Dual Ceiling Mobile	Single Ceiling Dual Ceiling Mobile	Single Ceiling Dual Ceiling Mobile
Head Size(cm)	73	66	60	63
No. of LED(ea)	96	96	84	72
Maximum Intensity(lx)	160,000	160,000	160,000	140,000
Intensity Control	5 Steps (40,000 lx ~ 160,000 lx)	6 Steps (40,000 lx ~ 160,000 lx)	6 Steps (40,000 lx ~ 160,000 lx)	5 Steps (40,000 lx ~ 140,000 lx)
CRI(Ra/R9)	97 / 97	95 / 90	95 / 90	97 / 97
Color Tempera- ture(K)	3,600 / 4,200 / 4,800 / 5,400	3,800 / 4,300 / 4,800	4,300 M310 (3,800 / 4,300 / 4,800)	3,600 / 4,200 / 4,800 / 5,400
Light Field Size(cm)	5 Steps 18 ~ 30	6 Steps 20 ~ 30	6 Steps 20 ~ 30	5 Steps 18 ~ 30
Depth of Illumination(cm)	125 (20%) 65 (60%)	150 (at 20 %) 85 (at 60 %)	150 (at 20 %) 90 (at 60 %)	130 (20%) 60 (60%)
Smart sensor(ea)	4	4	4	4
Detachable Centre grip	Yes(2X)	Yes(2X)	Yes(2X)	Yes(2X)
LED Life Span(hrs)	60,000	60,000	60,000	60,000
(option) Internal Camera	Adoptable	Adoptable	Adoptable	Adoptable
(option) Wall controller	Tablet PC	Adoptable	Adoptable	Tablet PC
Certificate	CE/MET	CE/MET	CE/MET	CE/MET
Power Consumption(W)	103	63	99 M310 (111)	68

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

Model	M200	S300	S200	E100
Design (Light Head)				
Installation	Single Ceiling Dual Ceiling Mobile	Single Ceiling Dual Ceiling Mobile, Wall	Single Ceiling Dual Ceiling Mobile, Wall	Mobile Wall Clamp Single Ceiling
Head Size(cm)	50	43.5	35 x 34	25 x 24.6
No. of LED(ea)	54	42	18	8
Maximum Intensity(lx)	120,000	130,000	100,000	60,000
Intensity Control	6 Steps (40,000 lx ~ 120,000 lx)	3 Steps (40,000 lx ~ 130,000 lx)	5 Steps (5,000 lx ~ 100,000 lx)	3 Steps (30,000 lx ~ 60,000 lx)
CRI(Ra/R9)	95 / 90	96 / 95	Ra 90	Ra 95
Color Tempera- ture(K)	4300 M210 (3,800 / 4,300 / 4,800)	3,800 / 4,300 / 4,800	3,800 / 4,300 / 4,800	3,500 / 4,000 / 4,500
Light Field Size(cm)	6 Steps 20 ~ 30	3 Steps 15 ~ 25	2 Steps 18 / 30	17 at 0.5m
Depth of Illumination(cm)	125 (at 20 %) 65 (at 60 %)	150 (20%) 75 (60%)	150 (at 20 %) 90 (at 60 %)	-
Smart sensor(ea)	-	-	-	-
Detachable Centre grip	Yes(2X)	Yes(2X)	Yes(2X)	-
LED Life Span(hrs)	60,000	60,000	60,000	60,000
(option) Internal Camera	-	-	-	-
(option) Wall controller	Adoptable	Tablet PC	-	-
Certificate	CE/MET	CE/MET	CE/MET	CE/MET
Power Consumption(W)	46 M210 (53)	56	29	17