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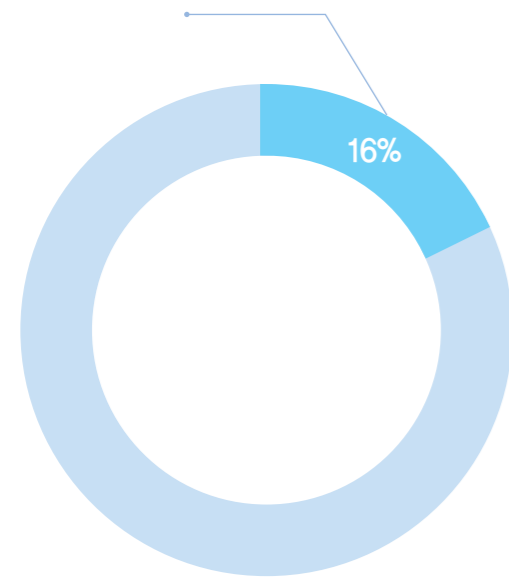
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D-C-LVSDT-V1-202210-ENG

DENTIS ORGANIZATION

Research & Development Center

Over 50 researchers
in the R&D Center



Implant research laboratory



3D technology and material research laboratory



LED Optical research Laboratory



Bio research Laboratory

Shadowless
LED Light

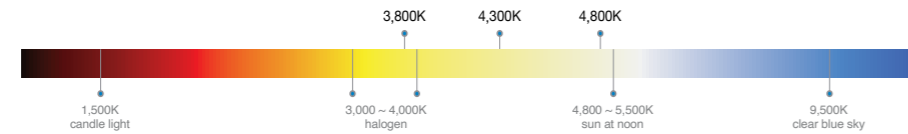
Proudly representing the
Global Brand 

Pioneer of Dental Treatment LED light manufacture in Korea	Well known as a dental LED light manufacturer that changed the paradigm from halogen to LED.
One and the only manufacturer with medical LED R&D in Korea	Possessing the best technology in the industry based on independent development of source proprietary technology and accumulated clinical data
Domination of the domestic market share in Korea with a wide range of product lineups.	Possessing quality in line with global standards and various lineups tailored to medical environments
Possessing multiple domestic and overseas awards, next-generation world-class products	Achieved domestic and foreign design awards such as IF, GD, etc.

UV

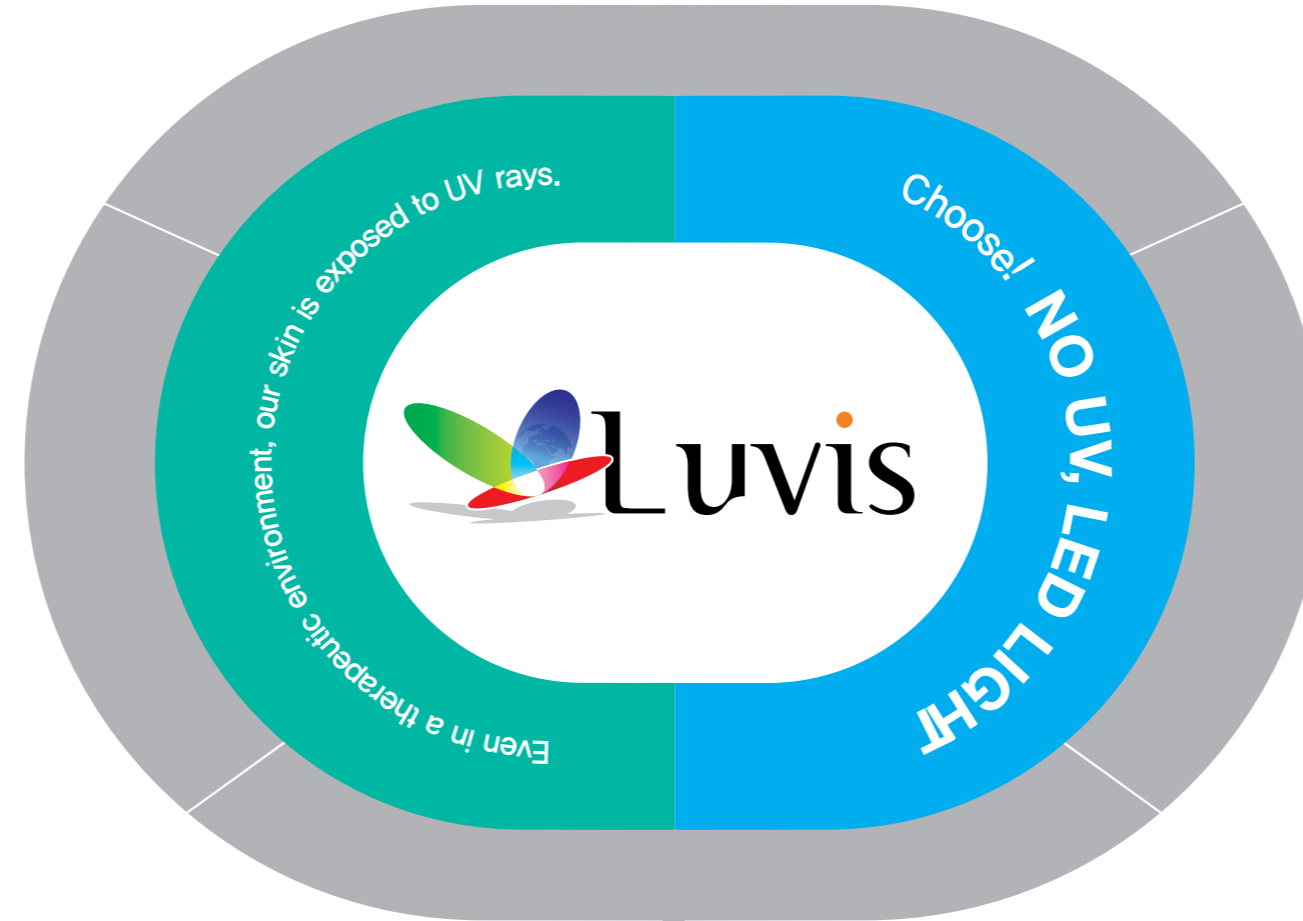
Color Temperature

- The terminology of 'color temperature,' means the color of the light emitted by the light source, and the color of the light changes depending on the temperature. As the color temperature increases, it appears in blue, and as the color temperature decreases, it appears in red.



Comforting Eyes

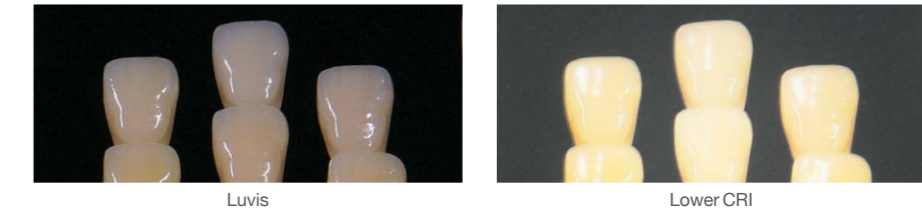
- With a high color temperature compared to the same illuminance, Luvis not only provides similar to the natural light but also allows the user to control the illuminance and color temperature to create a comfortable operating environment for the eyes.



LED

Color Rendering Index

- An indication shows with the images how well the original color of the object created by the LUVIS light source contrasts with the natural light. Under the surgical environment, excellent color rendering is proved by showing more vivid and close to natural color.
▶ Maximum value 100 ▶ Luvis 85~100 (Av. 90)



Long-lasting & Energy-saving

- Eco-friendly LED light source material allows for the prevention of heavy metal poisoning and provides longer service life compared to general lights.
▶ LED Light Source Service Life maintains average of 60,000 hours

Core Technologies representing LUVIS User-friendly advanced technologies from LUVIS

Shadow Dilution

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.



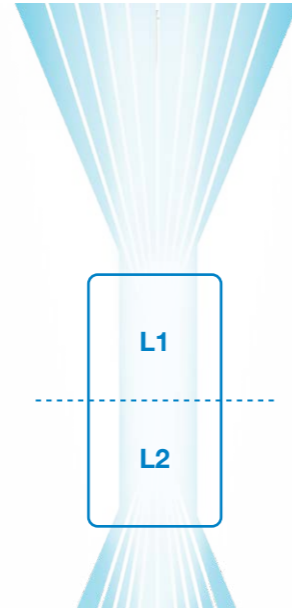
Smart Sensor

Even if the surgical area is covered, the motion sensor automatically compensates for the illuminance value.



Depth of Illumination

Depth of illumination is one of the main functions of surgery, and it refers to the degree of maintaining a uniform illuminance environment despite the different working distance. High depth of field is effective in cases where the surgical area is narrow and deep.



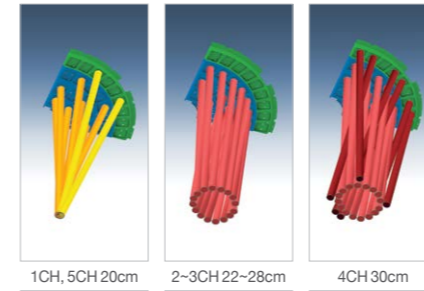
Hybrid LED System

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



CIS (Channel Illumination System)

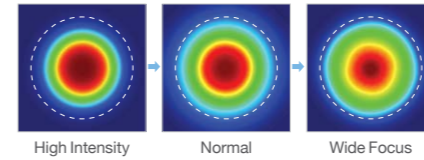
Channel Illumination System allows to adjust the electric current and change the light pattern. Further the system also allows to change the central intensity of illumination with maximum of 10%.



Light Uniformity

Light uniformity is one of the main functions of surgery lights. Under a high level of light uniformity, it is possible to maintain a uniform irradiation pattern without being affected by pattern size. Therefore, a case with a wide surgical area is more effective.

- ▶ Luvis: 60% +
- ▶ Shadowless lights standard: 50% +



Intuitive Control

The main control panel of the touch sensor allows the user to adjust the illumination, temperature, and pattern size directly.



Cool Light

All Luvis medical and surgical lights are equipped with a silent cooling system without an internal fan. Luvis M/L 200 emits significantly less radiant energy that dries out the surgical site, preventing blood clotting.



LUVIS Product Line up
for LED Dental & Medical Lights



C300 / C400



C500



C600

Dental Examination Lights



S200



S300

Examination Lights



M200 / M210

M300 / M310



L200



M400



L400

Mid-Large size surgical lights

● Paradigm shift for Dental Lights!
—
LED examination light for dentistry
Luvic C

● No.1 marketshare in Korea for Dental & Medical Lights!
—
Best-selling LED surgical light
Luvic S

● Global standards leading the specialization of the Korean medical environment!
—
Medical and large LED surgical light representing Korea
Luvic M/L

Luvis C300/C400



Luvis C300



Luvis C400



Rectangular shape for the oral environment
Light field
optimized for dental clinic



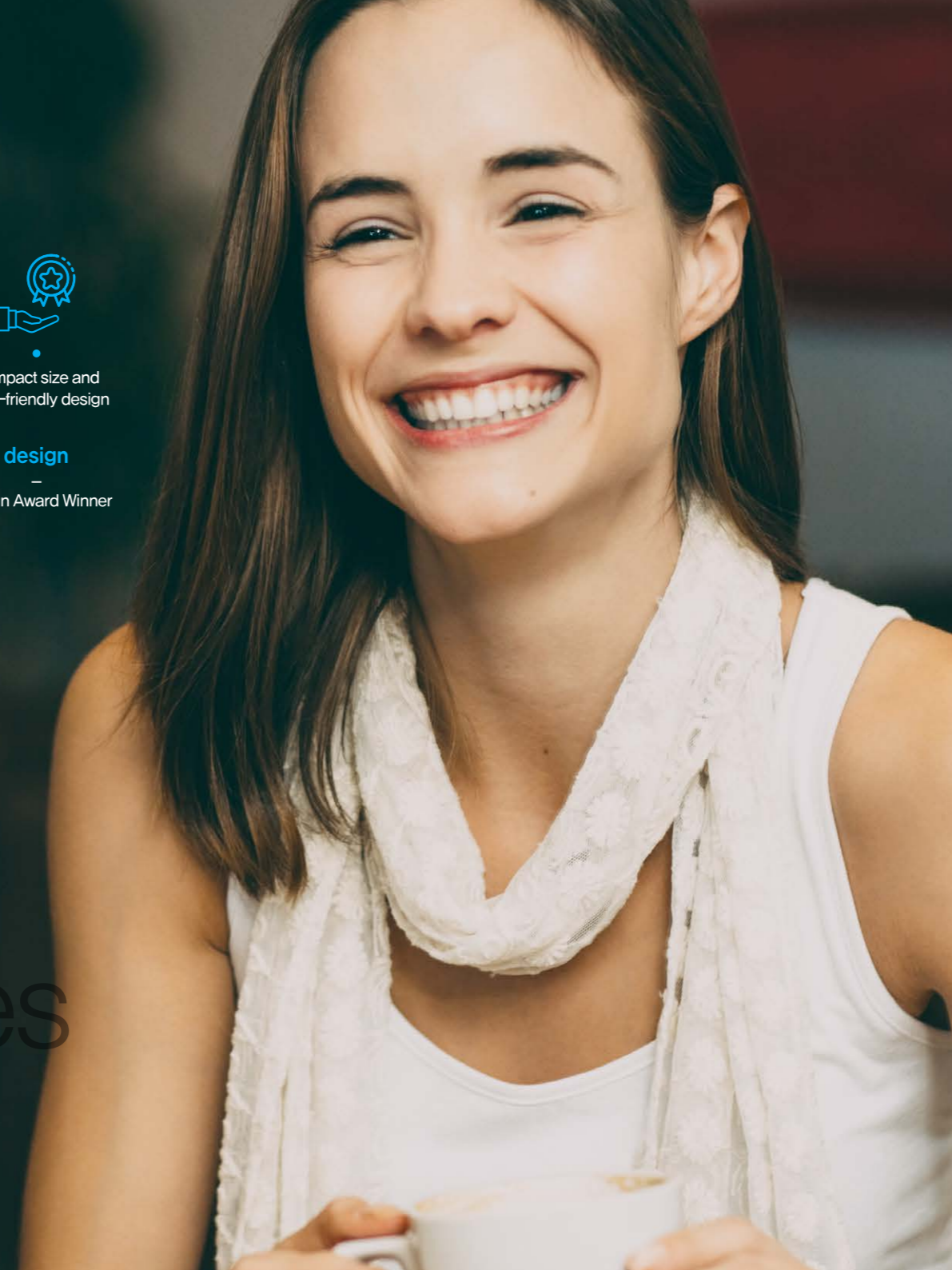
Optimal light intensity considering the dental
clinic environment



Various optimized options in consideration of the environment such as treatment room,
operation room etc.
camera, remote control, resin cover, etc.



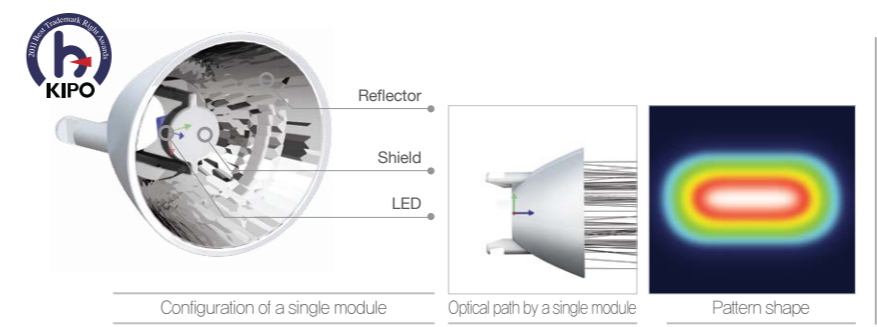
Compact size and User-friendly design
design
Design Award Winner



Luvis + C series

LED lights optimized for the Dental procedure

Hybrid LED Reflector C300 / C400
A Hybrid optical system is a hybrid product that combines a reflector and lenses. It performs various functions such as color temperature and pattern size adjustment with low power consumption.

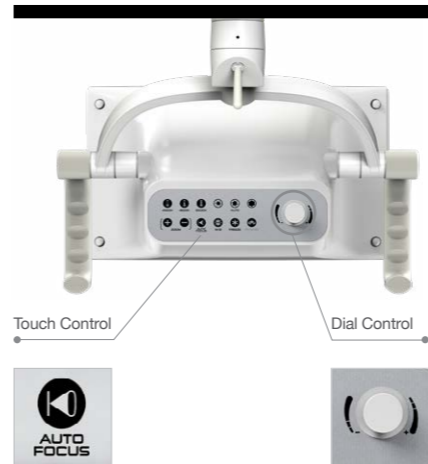


Detachable Handgrip
Sterilizable & removable handles for hygienic use

Smart Sensor



LED LIGHT SYSTEM **LUVIS**



Touch Control

Dial Control



- 3,000 to 50,000 lx
- 4,000 / 4,500 / 5,000 K color temperature
- Ra 95 / high color rendering
- Oval optical pattern
- Light field size of 16x9cm
- 75% high photomycosis
- Dial & Remote Control to adjust light intensity
- 3-axis head-arm application
- Sterilizable & removable handles
- Multiple installation options – Chair, Ceiling, Wall, and Mobile

Luvis C500

Proximity Sensor

Auto ON/OFF sensor within 2cm



Resin Cover

Orange Color Filter slows down the resin curing



Detachable Handgrip

Sterilizable & removable handles for hygienic use



Full HD Camera

Integrated Type



ZOOM



Adjust Focus



AUTO FOCUS



White Balance

W/B



Play Freeze

FREEZE

LED LIGHT SYSTEM LUVIS



- **“RESIN MODE” with a single touch**

No separate COVER or device
Optical design with resin-only LED, almost no UV wavelength



- **AUTOC LAVABLE HANDLE**

Remove HANDLE with single button
: Sterilizable and removable handles for hygienic use

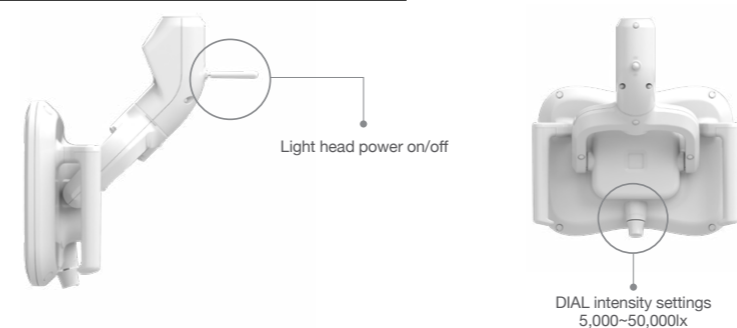


- **MOTION SENSOR APPLICATION, LIGHT ON/OFF**

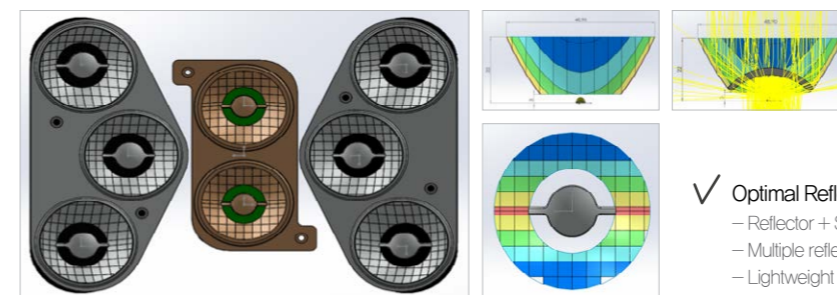
Auto ON/OFF sensor within 2cm to prevent cross infection



Luvis C600



- **Hybrid optical design optimizes light field**



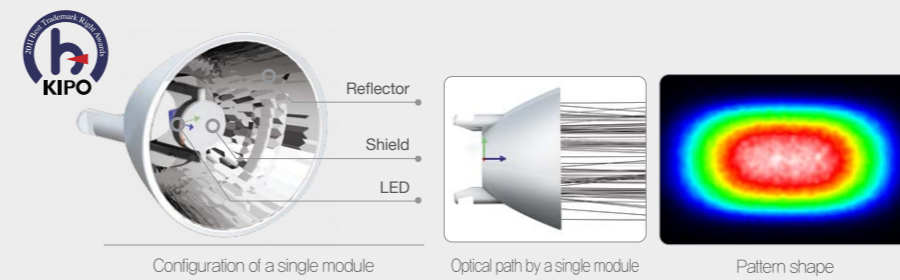
✓ **Optimal Reflector Optical Design Structure**
 - Reflector + Shield Type, reprint design
 - Multiple reflective surfaces formed at fine angles
 - Lightweight optical design without lens, no color separation of pattern

- **Excellent shadowless effect**

Medical light standard (9680) 12x12 or less
Excellent 3x3 minimized shadow by optical design structure with contrasts of 3rd party

- **Hybrid LED Reflector C600**

A hybrid optical system is a hybrid product that combines a reflector and a lens. It saves energy, reduces heat dissipation, and consumes less power to adjust color temperature and pattern size.



- Dental Mode/Resin Mode options, Minimize Shadows
- 5,000 K white daylight color temperature
- Light field of 16x9cm
- Hybrid LED Systems
- Motion sensor
- 5,000 to 50,000 lx
- Ra 95 for high color rendering
- Sterilizable & removable handles



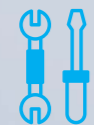
Luvis + S series

Examination, treatment, operating room... Multi-purpose!
LED Subsidiary Light



Combination of Examination and Surgical
General purpose Medical Light

Various setting modes from Dental to Surgery



Unit chair and dental treatment
free dual dome installation

Chair/mobile/wall/ceiling various installation types



S200 Surgical light, S300 Shadowless light
Advanced options



improved user experience
Smart control

Only in S300

Excellent Shadowless Effect

Luvis S200 has improved optical efficiency through an 18 lens system completed with proprietary optical technology, and exhibits excellent shadow-free effect.



Luvis S200



Halogen

Hybrid LED Optical Design

A hybrid optical system is a hybrid product that combines a reflector and a lens. It saves energy and reduces heat emission, and exhibits various functions such as color temperature and pattern size adjustment with low power consumption.



Adjustable Light Pattern

- ▶ Focused light: 18cm
- ▶ Expansion & shadowless effect: 30cm

Detachable Handgrip

Central grip of Luvis S200 is hygienic as it is detachable and can be autoclavable.

Easy Controls

Intensity (5 steps), color temperature (3 steps), light field adjustable

- ▶ Intensity : 100,000 lx (Max.)
- ▶ Color Temperature : 3,800 / 4,300 / 4,800 K
- ▶ Light Field Size : 18/30cm



18cm

30cm

Luvis S200



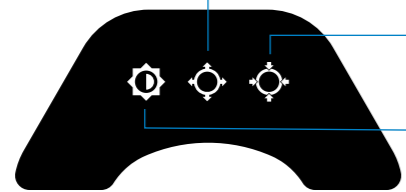
LED LIGHT SYSTEM LUVIS



S300

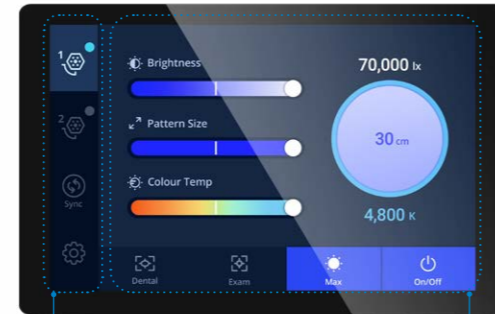
- 130,000 lx (Max.)
- 3 Steps of Color Temperature (3,800 / 4,300 / 4,800K)
- High color rendering with Ra 96 / R9 95
- ARM Touch Control
- 3 treatment modes (Dental, Examination, Surgical)
- Hybrid optical system
- Adjustable Light Field Size 15~25cm
- Shadowless effect with 42 LEDs
- Low heat dissipation prevents blood clotting
- Removable sterile hand grip
- User-friendly design

Handle Touch Control (Quick & Easy)



- Light Field **Increase**
- Light Field **Decrease**
- Intensity **Control**
(1 → 2 → 3 → 1, Rotate)

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.)

Sync Mode

OT Light (1 and 2) Sync

Dental Mode

Dental Light ON/OFF
Intensity Control

Examination Mode

Examination, Light ON/OFF
Intensity, Color Temp. Control

Max. Mode_OT Light

Light Field Size 3 Level and Intensity 3 Level Setting

Light ON/OFF

Luvis S300

OT Light 1 (S300)▼



OT Light 2 (S300)▼



Tablet PC (Android APP, IOS APP)

- ✓ OT Light & Camera Control
- ✓ Sync Control

Luvis M200/M300/L200



Luvis + M/L series

Exported to the whole world! Medium and large LED surgical lights



High-end functions of illumination depth & light uniformity

Premeium Shadowless surgical light

Next world-class product



Various environments from Dental to Medical

Multiple installation type

Chair / Mobile / Wall / Ceiling



Smart & Depth sensor, shadowless performance

Professional & Convenience



Designed to prevent cross-contamination (Airflow & Circulation)

Ensure safety

World Design Award (IF)



● **Luvis M200 / M210**

- 120,000 lx (Max.)
- 4,300 K Color Temperature (Option :3,800 / 4,300 / 4,800 K)
- High color rendering with Ra 95 / R9 90
- Hybrid optical system
- L1+L2 125 cm (20%) deep depth
- Light Filed Size 20~30cm [6 steps] adjustable
- Shadowless effect with 54 LEDs
- Low heat dissipation prevents blood clotting
- Intuitive control panel
- Sterilizable & removable handles
- User-friendly design



● **Luvis M300 / M310**

- 160,000 lx (Max.)
- 4,300 K Color Temperature (Option :3,800 / 4,300 / 4,800 K)
- High color rendering with Ra 95 / R9 90
- Hybrid optical system
- Smart Sensor
- L1+L2 125 cm (20%) deep depth
- Light Filed Size 20~30cm [6 steps] adjustable
- Shadowless effect with 84 LEDs
- Low heat dissipation prevents blood clotting
- Intuitive control panel
- Sterilizable & removable handles
- User-friendly design
- Full HD Camera Option (Internal)



● **Luvis L200**

- 160,000 lx Maximum Intensity
- 3 Step Color Temperature (3,800 / 4,300 / 4,800 K)
- High color rendering with Ra 95 / R9 90
- Hybrid optical system
- Intensity maintain system/smart sensor
- L1+L2 150 cm (20%) deep depth
- Light Filed Size 20~30cm [6 steps] adjustable
- Shadowless effect with 96 LEDs
- Low heat dissipation prevents blood clotting
- Intuitive control panel
- Sterilizable & removable handles
- User-friendly design
- Full HD Camera Option (Internal)

LED LIGHT SYSTEM **LUVIS**



L400

- 160,000 lx (Max.)
- 4 steps of color temperature adjustment (3,600/4,200/4,800/5,400K)
- High level of CRI(color rendering index), Ra 97, R9 97
- Hybrid optical system
- Intensity maintain system/smart sensor
- L1+L2 125 cm (20%) deep depth
- Light Filed Size 18~30cm [5 steps] adjustable
- Shadowless effect with 96 LEDs
- Low heat dissipation prevents blood clotting
- Intuitive control panel
- Sterilizable & removable handles
- User-friendly design
- Full HD Camera Option (Internal)



- ✓ OT Light & Camera Control
- ✓ Sync Control

M400

- 140,000 lx (Max.)
- 4 steps of color temperature adjustment (3,600/4,200/4,800/5,400K)
- High level of CRI(color rendering index), Ra 97, R9 97
- Hybrid optical system
- Intensity maintain system/smart sensor
- L1+L2 130 cm (20%) deep depth
- Light Filed Size 18~30cm [5 steps] adjustable
- Shadowless effect with 72 LEDs
- Low heat dissipation prevents blood clotting
- Intuitive control panel
- Sterilizable & removable handles
- User-friendly design
- Full HD Camera Option (Internal)

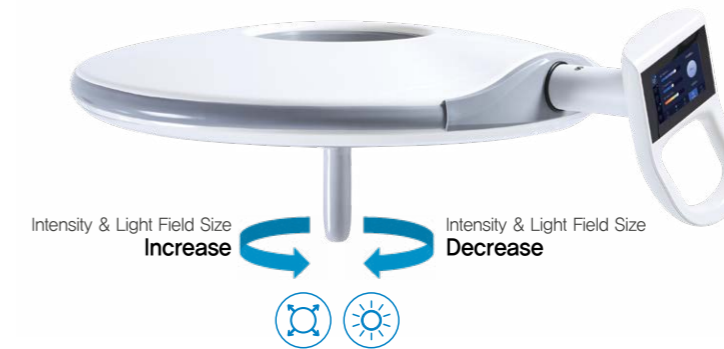
Luvis
M/L400

① **Full-HD Camera**



Specifications	
Image Sensor	1/2.8-Type CMOS
Lens	30X Optical Zoom
Image Point	Approx. 2.13 Megapixels
Video System	Full HD 1080p(1,920X1,080)
Video Output Signal	Digital : HD-SDI (BNC) Analog : Component (Y/Pb/Pr)

② **Handle Control**



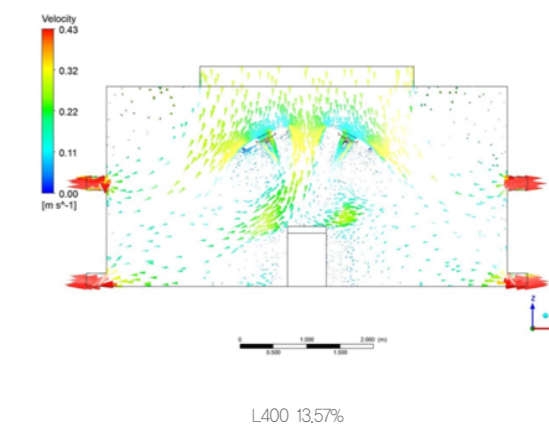
③ **ARM Control Panel**

- OT Light 1 or 2 Control (Sync)**
Light ON/OFF
Light Field Size, Intensity, Color Temp.
Endo Mode, Max. Mode
- Camera Control**
Zoom In/Out, White Balance
Auto Focus, Freeze
- Setting**
Room No., Version.



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

The turbulence intensity simulation test shows 13.57% (DIN 1946-4 standard). Therefore L400 allows for better airflow around the patient, reducing the risk of cross-infection.



LED LIGHT SYSTEM LUVIS

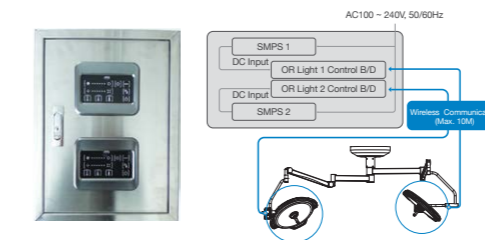
Classification	C300 / C400	C500	C600	S200	S300	M200	M210	M300	M310	L200
Design(Light Head)										
Installation Type	Chair Ceiling Wall	Chair Mobile Ceiling Wall	Chair Ceiling Wall	Dual Connection Mobile Ceiling (Single/Dual) Wall	Dual Connection Ceiling (Single/Dual) Wall Mobile	Ceiling(Single/Dual) Mobile	Ceiling(Single/Dual) Mobile	Ceiling(Single/Dual) Mobile	Ceiling(Single/Dual) Mobile	Ceiling(Single/Dual) Mobile
Head Size (cm)	32.6x22	28.4x16.5	263.5x196.7x73.3	35x34	41x42 (Max. 44)	50.6x50.6 (Max. 56)	50.6x50.6 (Max. 56)	60x60 (Max. 66)	60x60 (Max. 66)	D 66
Number of LED (EA)	4	8	8	18	42	54	54	84	84	96
Power Consumption (W)	14	20	30-45	29	56	46	53	99	111	63
Light Intensity (lx)	25,000	50,000	50,000	100,000	130,000	120,000	120,000	160,000	160,000	160,000
Light Intensity Control	Dial+Sensor	Dial+Touch +Remote Control	Dial + Touch	Button	LCD Touch	Touch	Touch	Touch	Touch	Touch
Color Rendering Index / Ra	90	95	95	90	96	95	95	95	95	95
Color Rendering Index / R9	-	-	-	-	95	90	90	90	90	90
Color Temperature (K)	5,000	4,000/4,500/5,000	5,000	3,800/4,300/4,800	3,800/4,300/4,800	4,300	3,800/4,300/4,800	4,300	3,800/4,300/4,800	3,800/4,300/4,800
Light Distance (m)	0.7	0.7	0.7	1	1	1	1	1	1	1
Light Pattern Size (cm)	15x9	16x9	16x9	D 18 / 30	D 15 - 25	D 20 - 30	D 20 - 30	D 20 - 30	D 20 - 30	D 20 - 30
Light Pattern / Shape	Oval			Circle						
Light Uniformity (D50 / D10 x 100%)	75	75	65	60	60	60	60	60	60	60
Depth of Illumination / Ec 60% (cm)	-	-	-	-	75	65	65	90	90	85
Shadow Dilution / 1mask (No Tube / Tube) (%)	-	-	-	-	-	50 / 50	50 / 50	65 / 60	65 / 60	80 / 70
Shadow Dilution / 2masks (No Tube / Tube) (%)	-	-	-	-	50	48 / 48	48 / 48	55 / 50	55 / 50	70 / 65
Turbulence intensity (DIN 1946-4)	-	-	-	-	-	-	-	-	-	-
Option		Full HD Camera Remote Control Resin Cover			Tablet PC Backup Battery	Wall-mount Control Box Backup Battery	Wall-mount Control Box Backup Battery	Full HD Camera Wall-mount Control Box Backup Battery	Full HD Camera Wall-mount Control Box Backup Battery	Full HD Camera Wall-mount Control Box Backup Battery

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

L400	M400
Single Ceiling Dual Ceiling Mobile	Single Ceiling Dual Ceiling Mobile
73	63
96	72
103	68
160,000	140,000
LCD Touch	LCD Touch
97	97
97	97
3,600/4,200/4,800/5,400	3,600/4,200/4,800/5,400
1	1
D 18 - 30	D 18 - 30
Circle	
60	60
65	60
90/85	70/70
65/60	55/55
13.57% (Result of manufacturer's simulation)	-
Full HD Camera Wall Controller (Tablet PC) Backup Battery	Full HD Camera Wall Controller (Tablet PC) Backup Battery

Wall-mount control box

Classification	Description
Box Size (cm)	WxLxD=30x40x15
Control Box Material	Stainless
Number of Controlled Unit	1 or 2
Switch Type	Touch
Classification	Description
Range of Wireless Com. (m)	<10
Protocol of Wireless Com.	IEEE802.15.4 (ISM 2.4GHz)
Input Voltage	AC100-240V, 50/60Hz



M/L Full HD Camera

Classification	Specification
Image Sensor	1/2.8-type CMOS
Image Point	Approx. 2.14 Megapixels
Lens	Optical
Focus, Aperture	Auto, Manual
Video Signal	HD-SDI(BNC)
Resolution	Full HD 1080p, 1080i, 720p, 720i

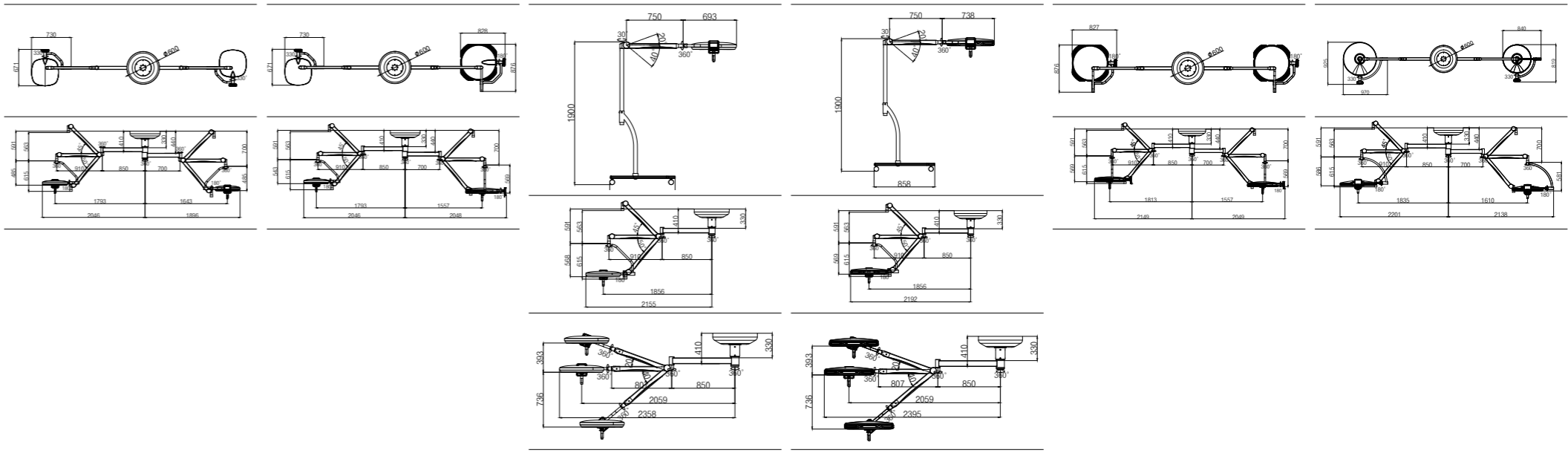
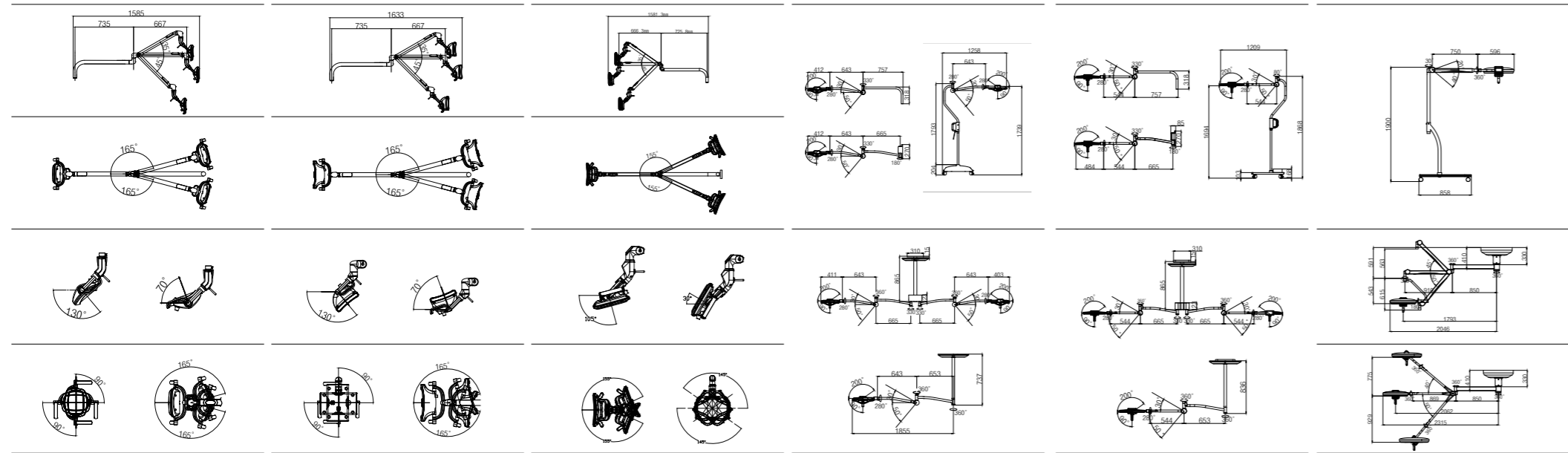


C500 Full HD Camera

Classification	Specification
Image Sensor	1/2.8 Exmor CMOS
Image Point	Approx. 2.14 MegaPixels
Lens	Optical 30X
Focus, Aperture	Auto, Manual
Video Signal	HD-SDI
Resolution	Full HD 1080p, 1080i, 720p, 720i



Installation Guide

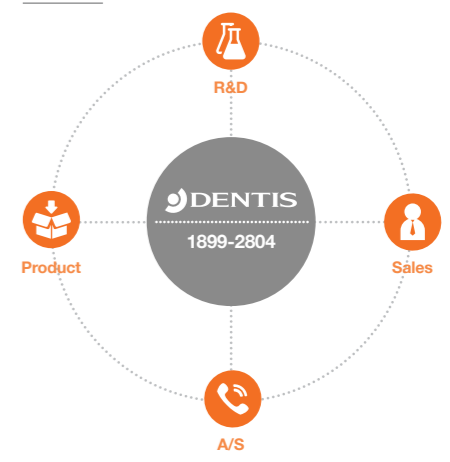




Global Standard, LUVIS

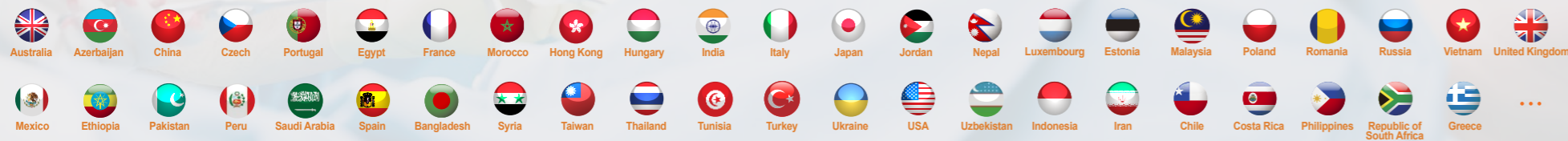
World-class LED Medical Light

- LUVIS is a national brand that Dentis co., Ltd. has independently developed with its own medical device department.
- Possessing Medical LED optical research center and large-scale production system.
- Luviv's customer service team will visit you globally wherever you are.





LED Light Luvis Awarded 'World Class Product of Korea'



이영웅
덴티스 전속모델

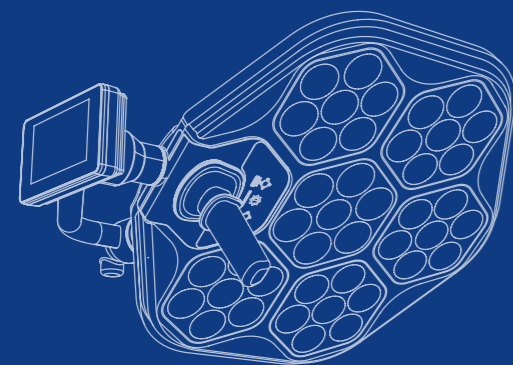
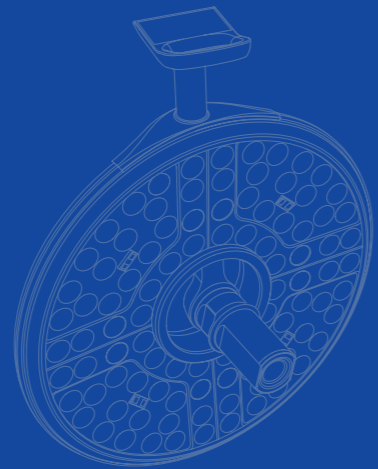
WORLD CLASS PRODUCT Luvis!



“
Medical devices are being exported to over
80 countries by the global company, **DENTIS.**”



LED LIGHT SYSTEM
LUVIS



LUVIS

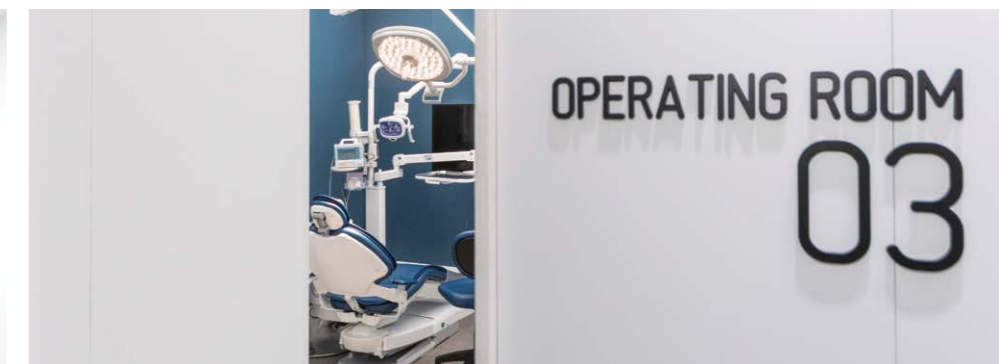
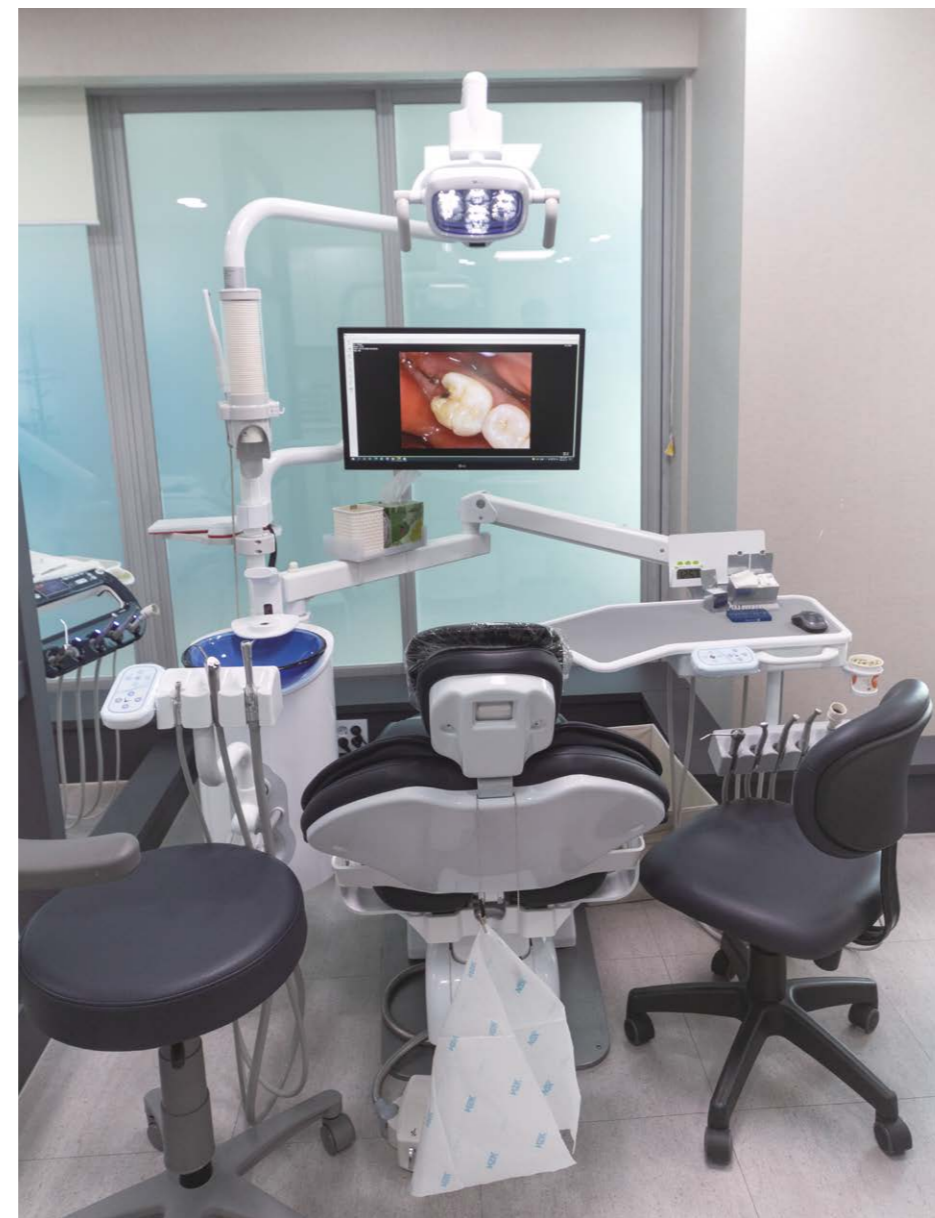
INSTALLATION INTERIOR CASES

- C300
- C400
- C500
- CAMERA TYPE
- C600
- S200
- CHAIR TYPE
- MOBILE TYPE
- S300
- CHAIR TYPE
- M200
- M400
- L400

LUVIS INSTALLATION INTERIOR CASES

LED surgical light that adds specialness to the treatment room





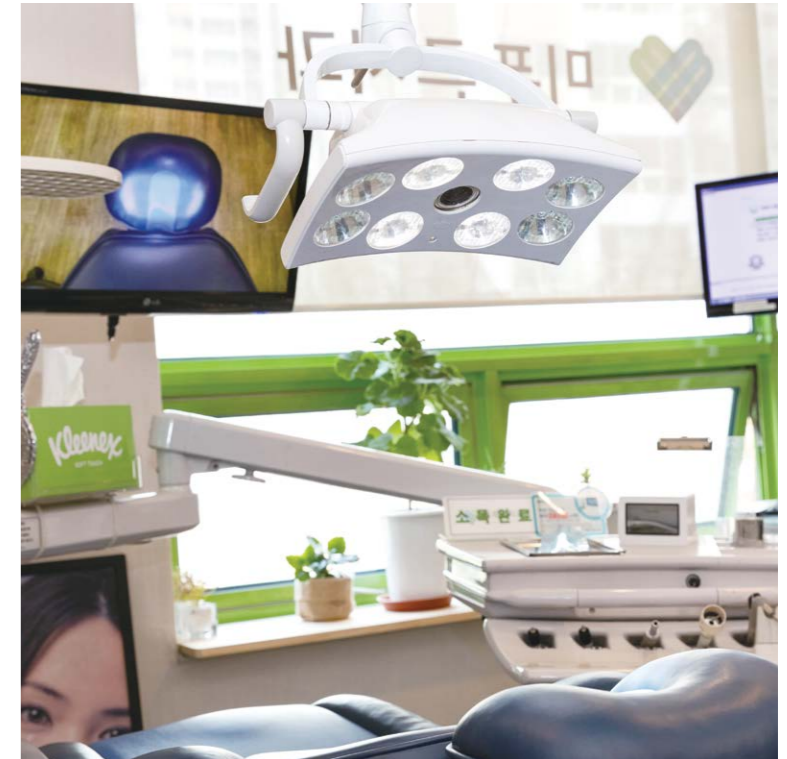
INSTALLATION INTERIOR CASES



Luvis C400

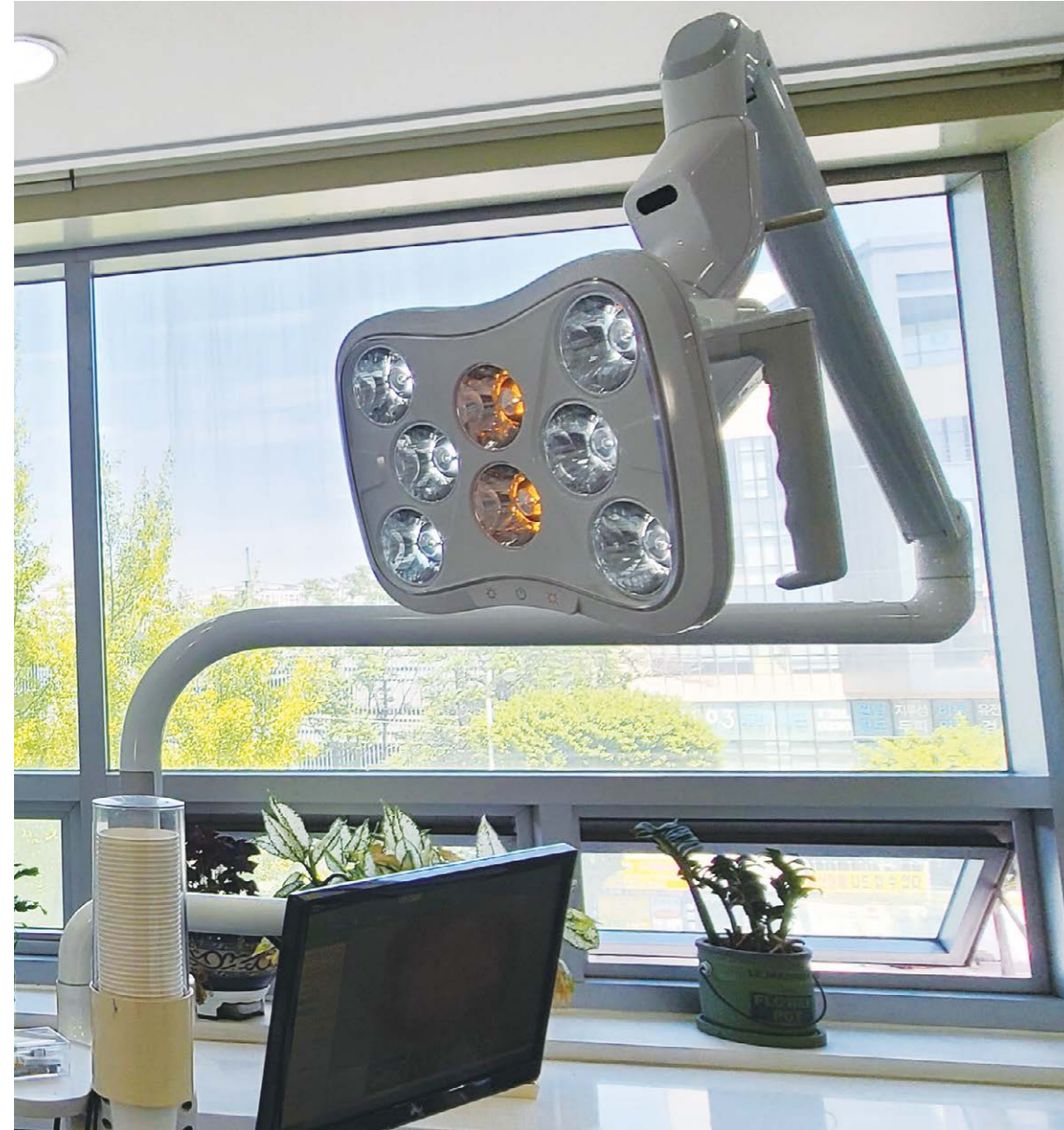


INSTALLATION INTERIOR CASES



Luvis C500
CAMERA TYPE

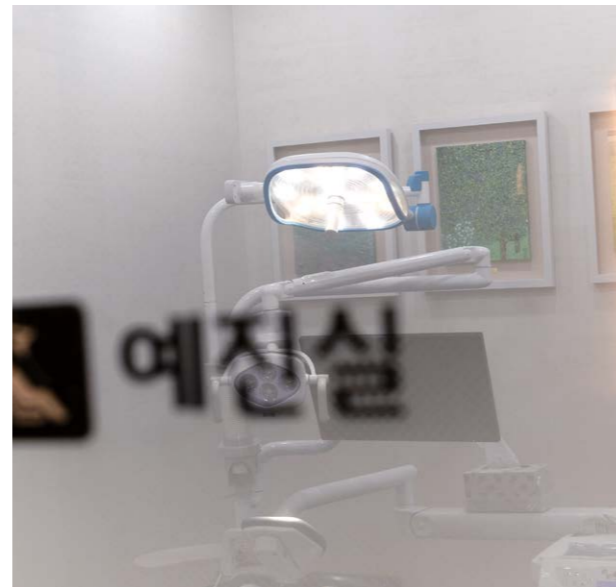
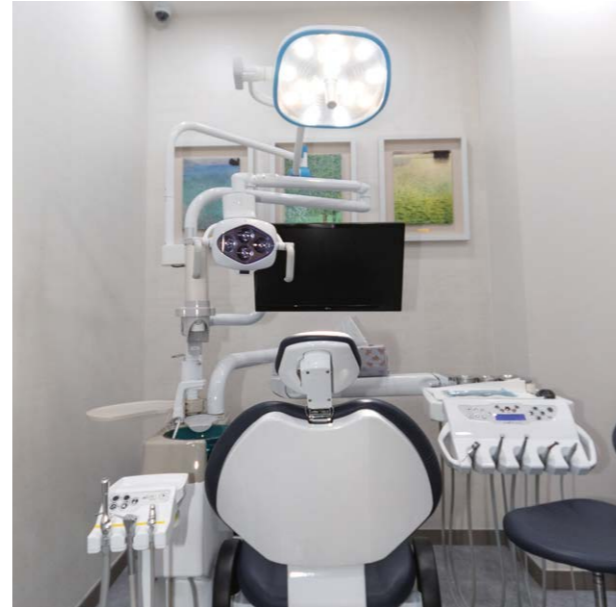
INSTALLATION INTERIOR CASES



Luvis C600

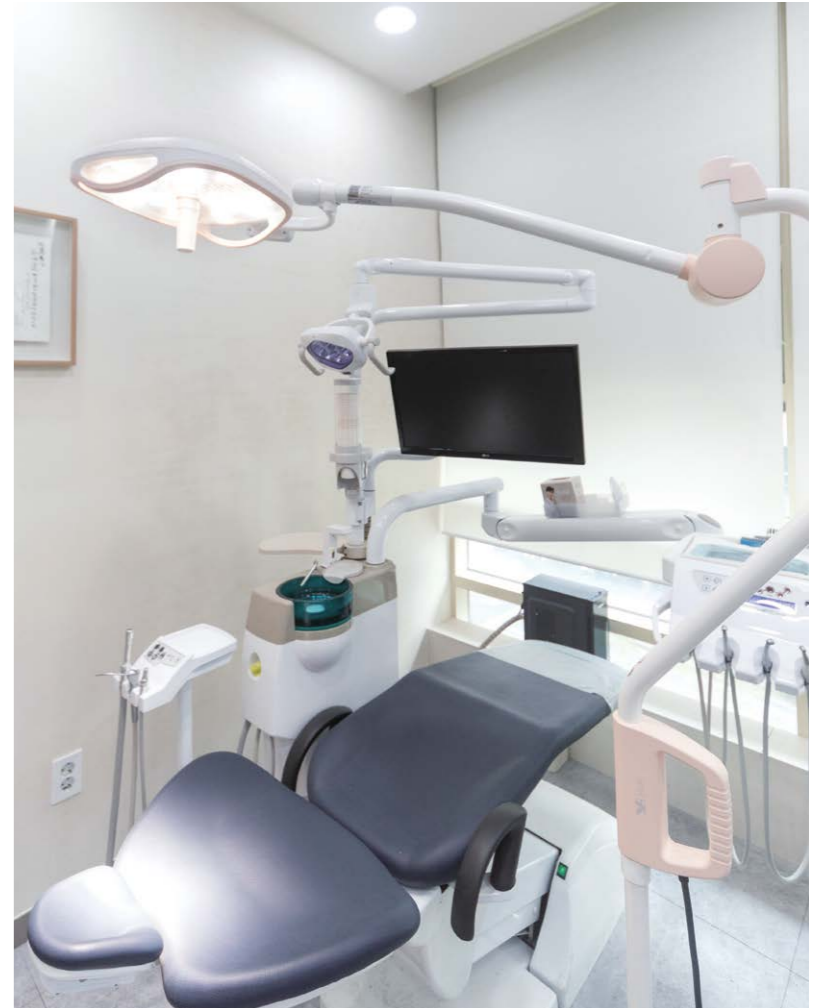
INSTALLATION INTERIOR CASES

Chair Type



Luviv S200
CHAIR TYPE / MOBILE TYPE

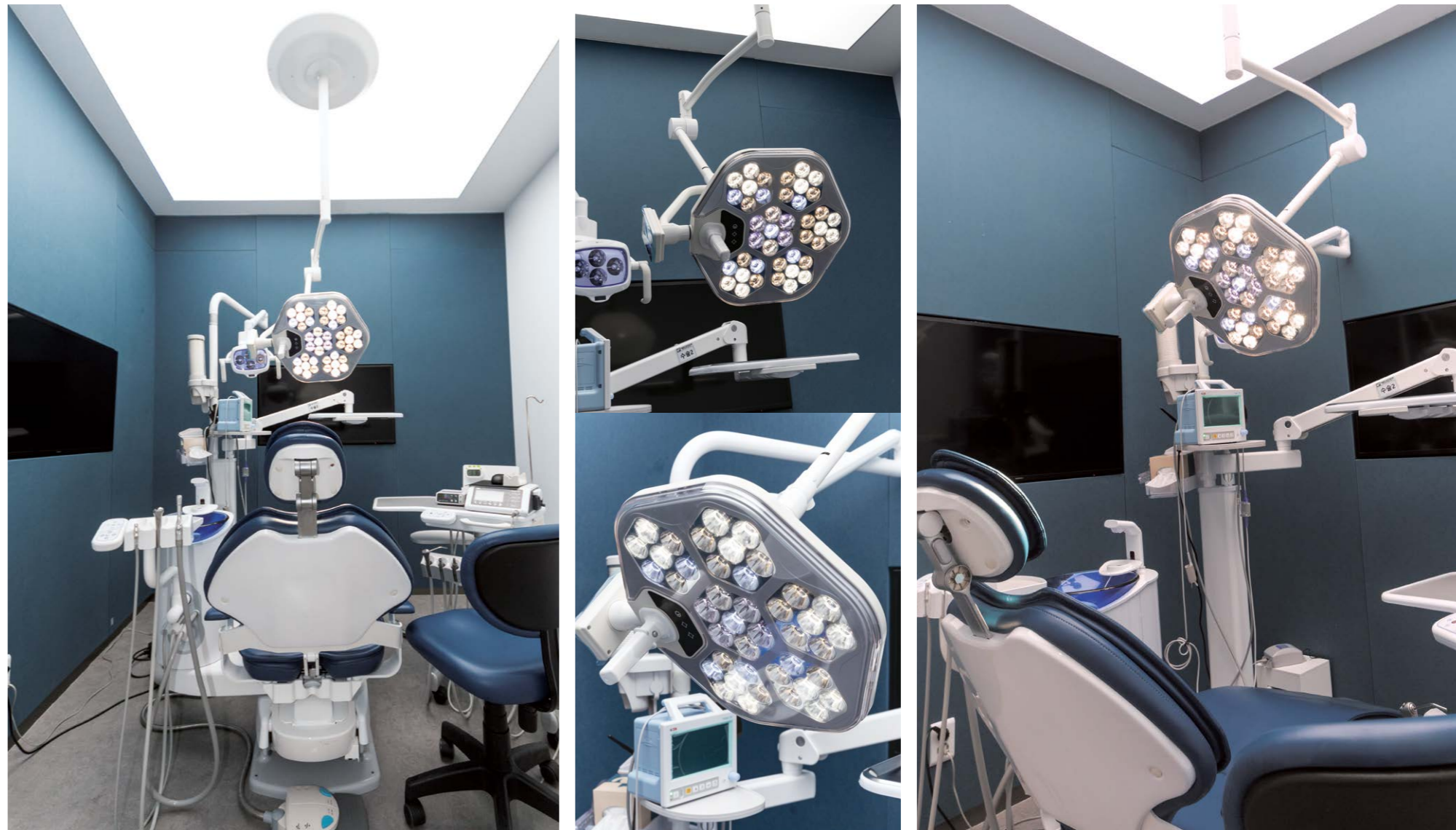
Mobile Type



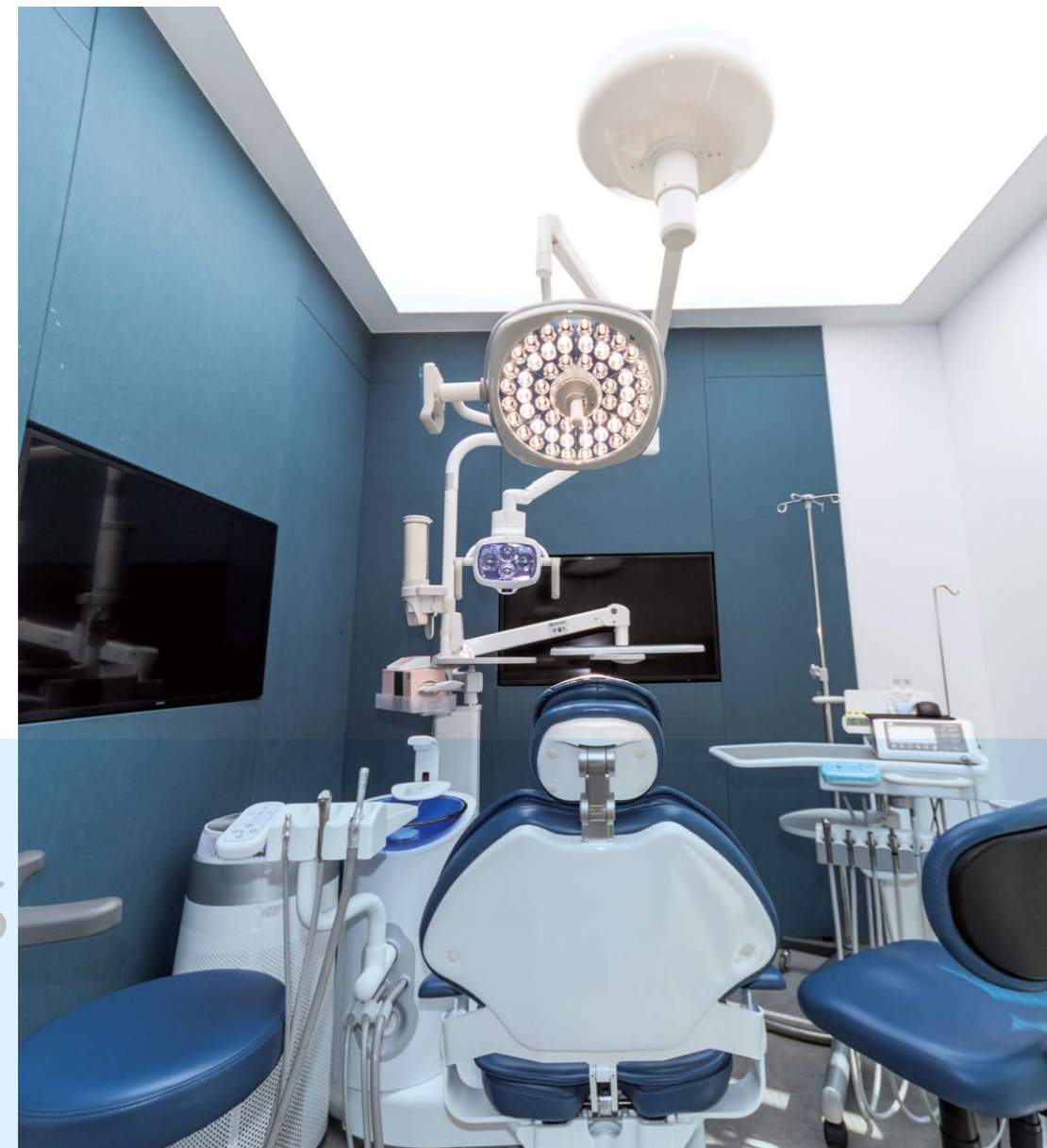
INSTALLATION INTERIOR CASES



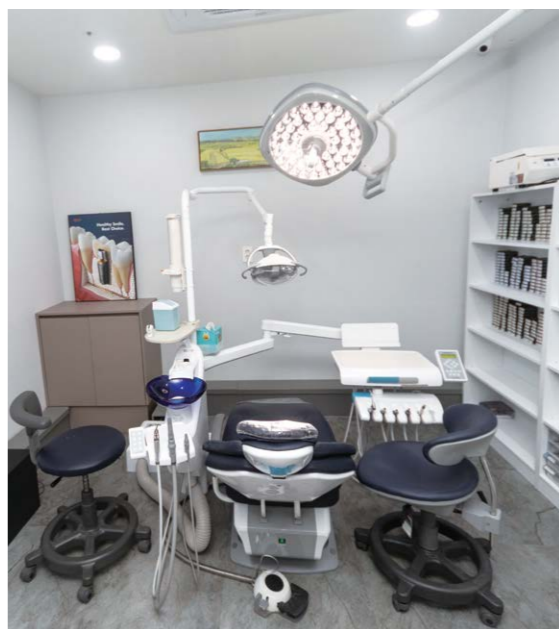
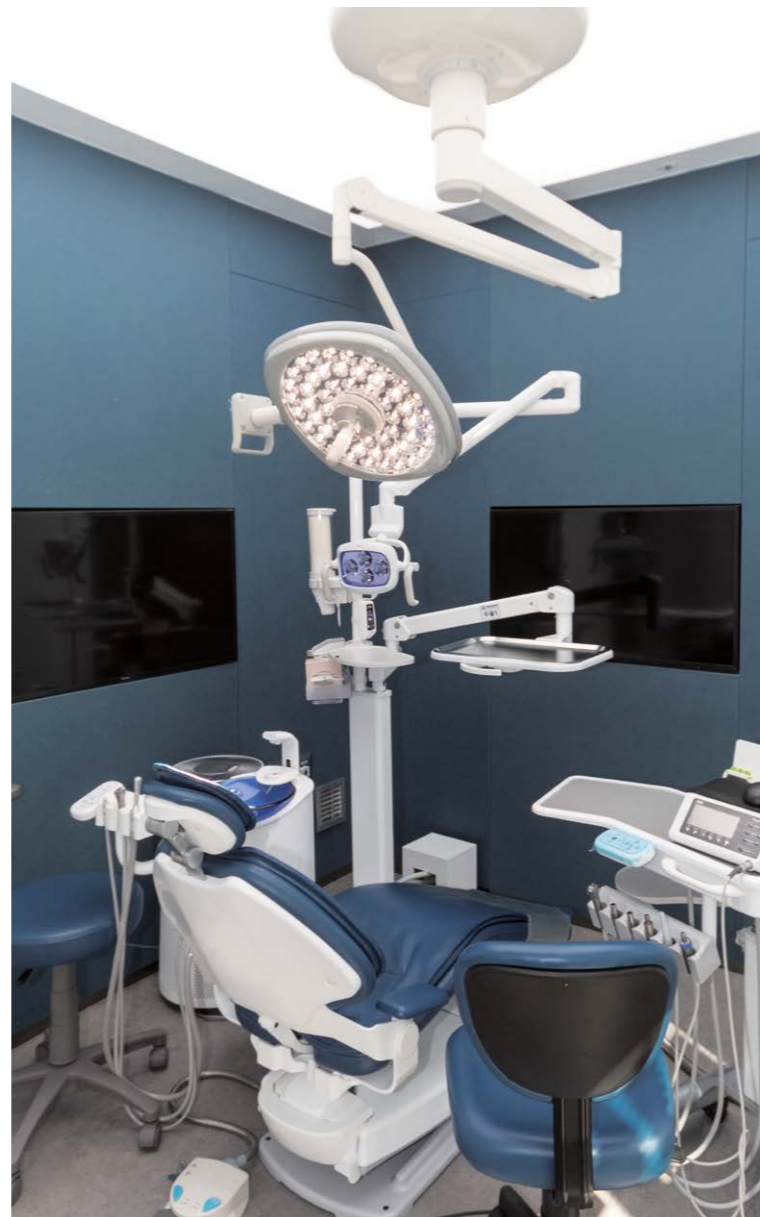
Luvis S300
CHAIR TYPE



INSTALLATION INTERIOR CASES

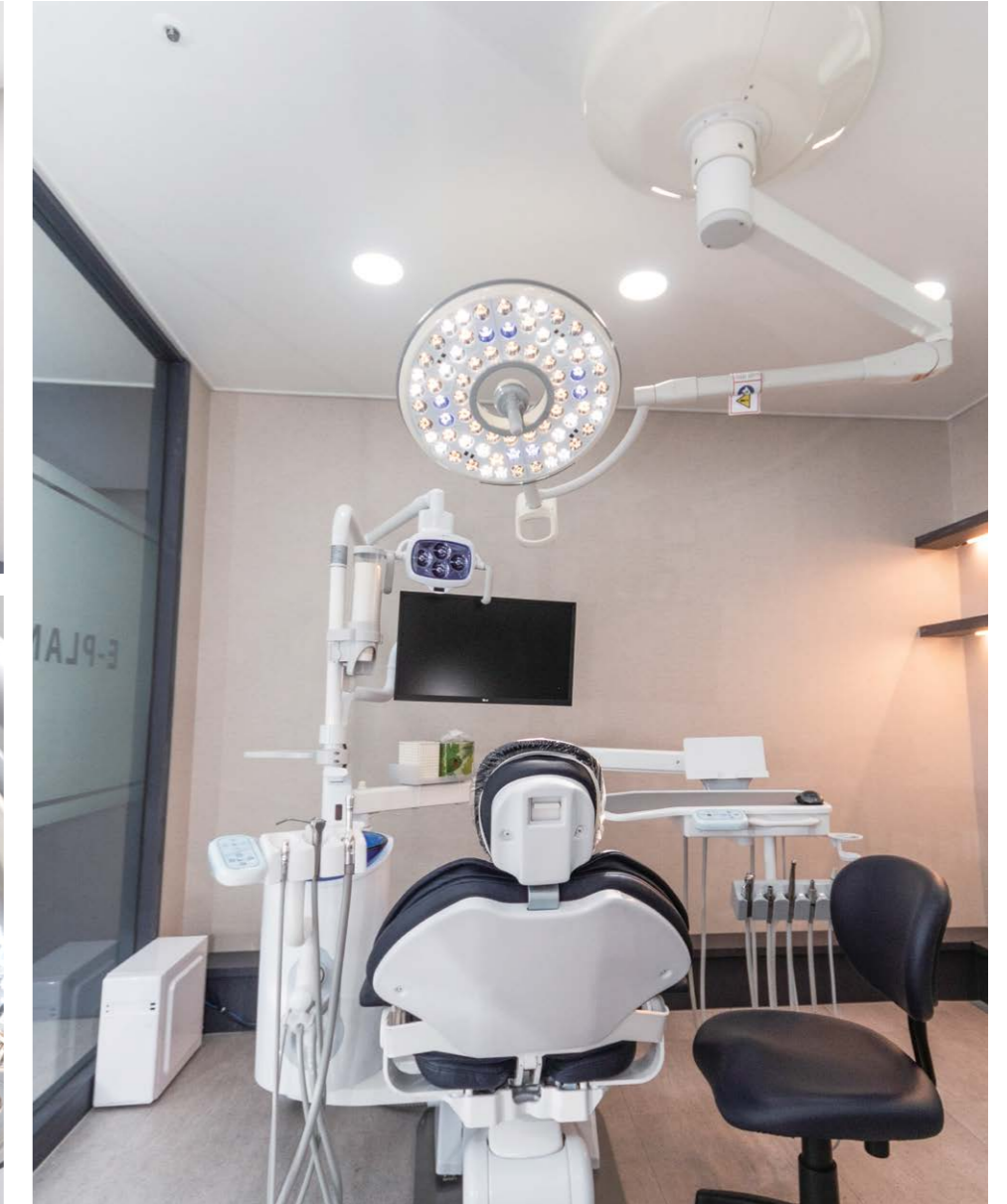


Luvis
M

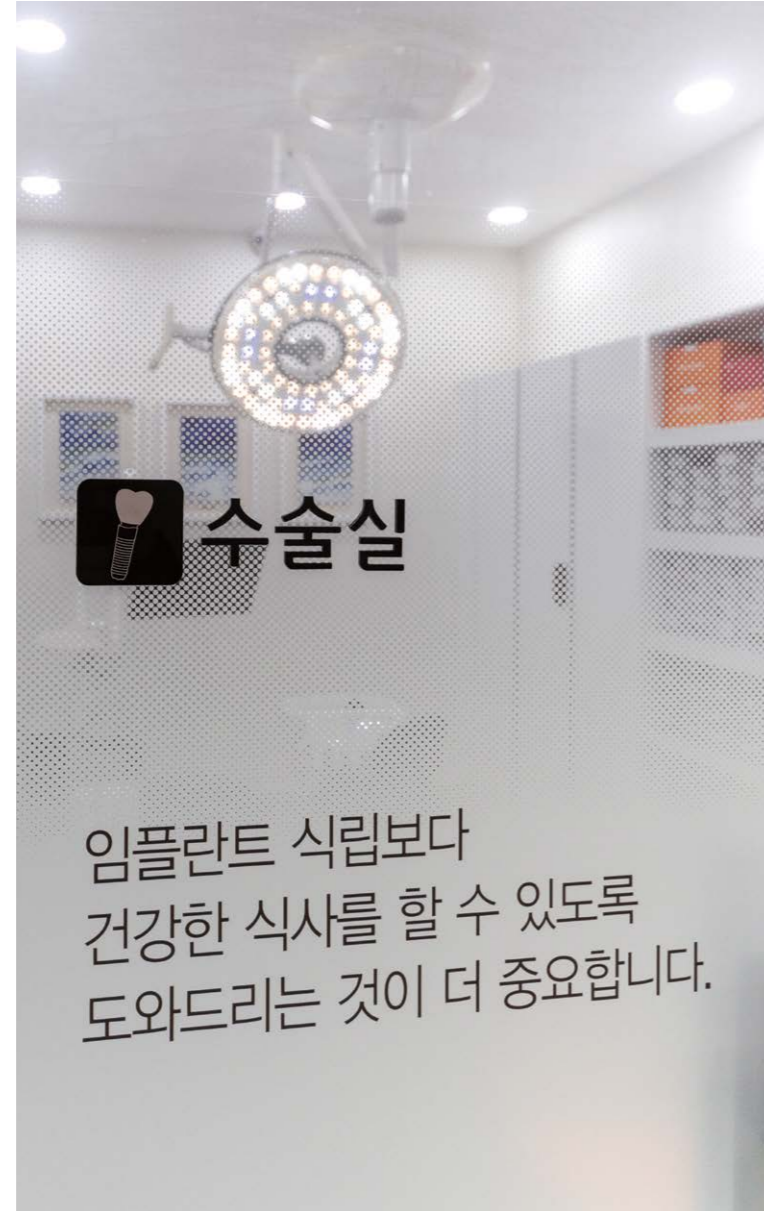
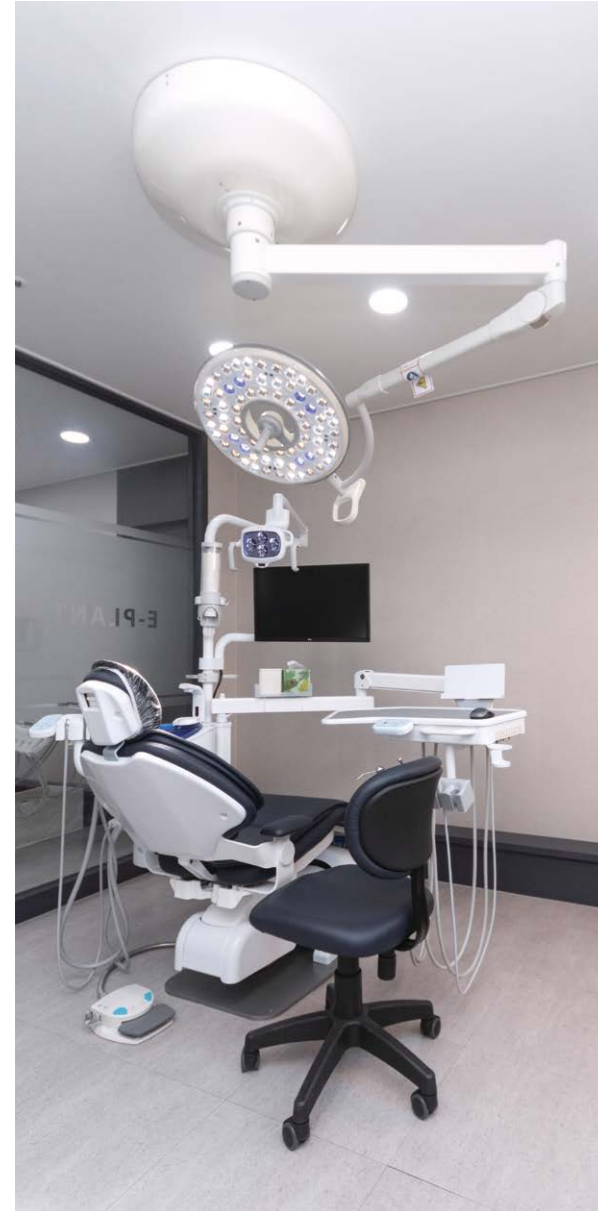


Luvis M200

INSTALLATION INTERIOR CASES



Luvis M400



INSTALLATION INTERIOR CASES



Luvis L
LED LIGHT SYSTEM **LUVIS**

Luvis L400

INSTALLATION INTERIOR CASES



Luvis L400