



K-scope Power LED Medical illuminator

Head Light For Loupe (glasses)

Head Light with Camera

Operating LED Head Light

RechargeableLED Head Light

LED Otoscope

LED Throatoscope

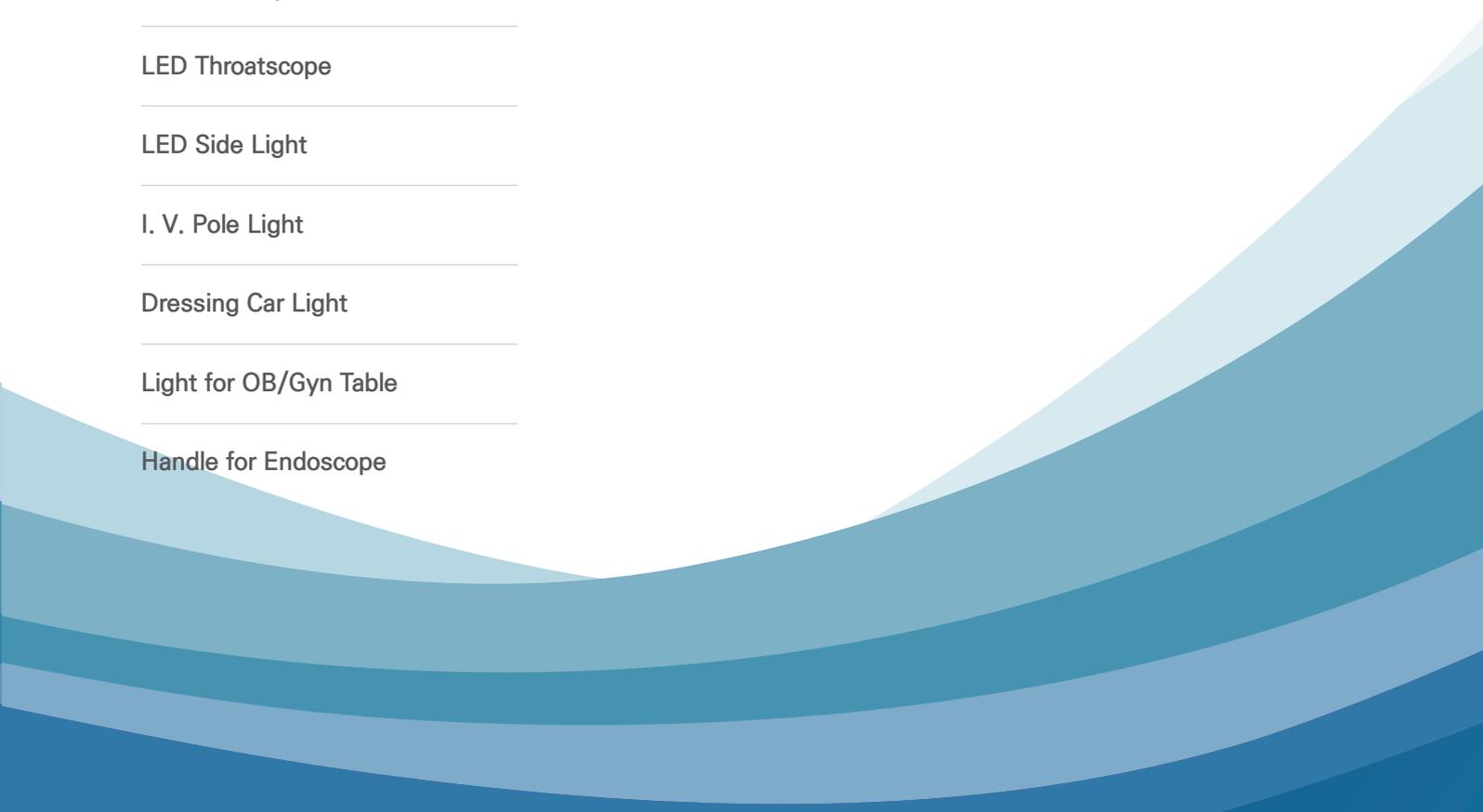
LED Side Light

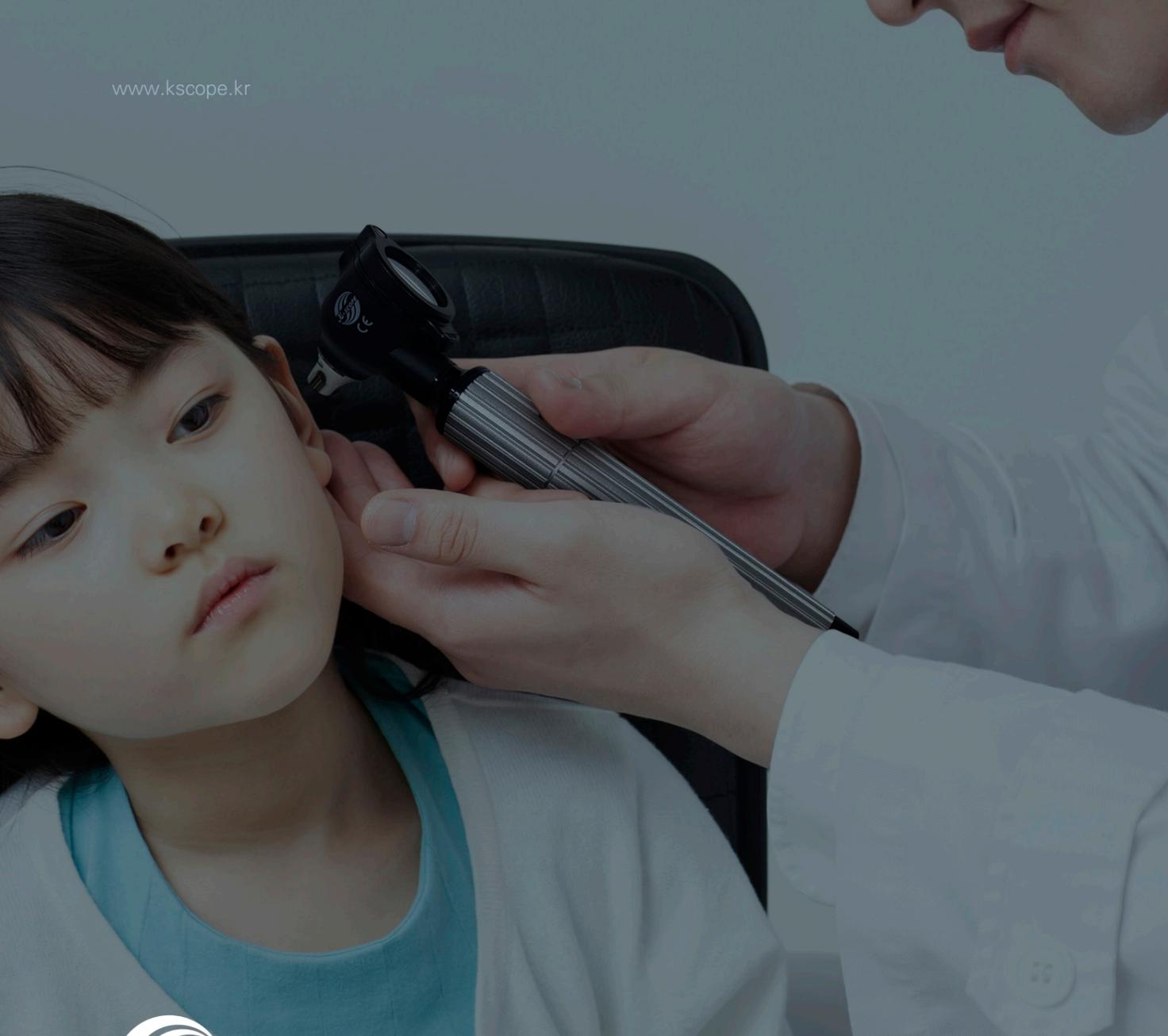
I. V. Pole Light

Dressing Car Light

Light for OB/Gyn Table

Handle for Endoscope

A decorative graphic at the bottom of the page consisting of several overlapping, wavy bands in various shades of blue, ranging from light to dark, creating a sense of movement and depth.



SAEHANUL BIOTECH CO.,LTD.

In 2003, we developed medical lights and scopes using power LED – next generation digital light source that overcomes the limitations of existing halogen or xenon lamps in brightness, color and lifespan first in the world.

With the advice of doctors and collaboration with renowned companies (fiber optics, LED, Optical lens, battery etc.), we have been developed LED headlight, Otoscope, Throatoscope, Operating headlight, LED side light, Headlight with camera, Light for OB/Gyn table, Glasses attached type headlight, Dressing car light, Handle for endoscope and we will continuously increase items.

We have obtained certifications such as KFDA, CE, ISO, CE safety test, and have already established export routes to more than 20 countries. Based on this, we are looking to grow into the world's No. 1 medical light company with continuous love and support from our clients.

KS-21

Head Light For Loupe (glasses)

Strong point

- Freely attachable to glasses or loupe
- It can be used semi-permanently because it used power LED lamp (≒50,000hours)
- Brightness is more than 50,000lux
- No UV radiation Clear light irradiation with optical lens combination
- Convenience to use due to brightness and angle adjustment functions
- Brightness adjustment (four steps)
- It can be used for 3 to 5 hours continuously on a single charge. (depending on light setting)
- applying necklace type battery pack
- Minimized connection cable length / Minimized light weight / Minimized the burden on the head



Light Part Weight



Example of wearing a light



Glasses (Loupe) clip type light



Convenient to use glasses strap

Specification

Light part

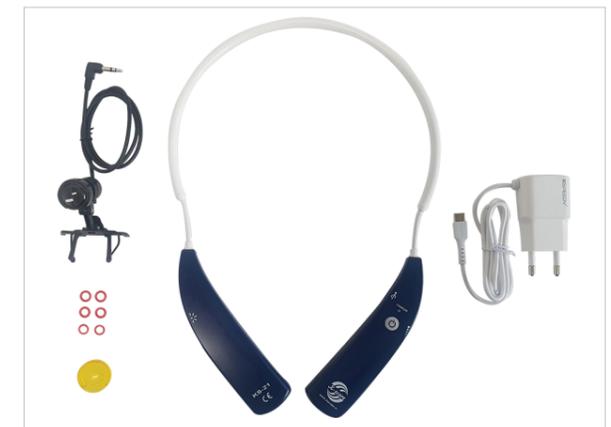
Lamp	Power LED
Light Color	5,700K natural white
Lamp lifespan	≒50,000hours
Light spot	ø65mm at 30cm

Battery pack

Type	Necklace type
Battery	Lithium polymer rechargeable battery
Battery capacity	3.70V / 1,100mAh x 2ea
Brightness adjustment	four steps (50mA increments)
Usage time	more than 3~5hr (depending on light setting)

Components

Headlight main body + Glasses fixing clip	1
Necklace type battery pack	1
AC/DC Adapter	1
Rubber ring for fixing cables (size : L / M / S)	each 2
Manual	1
Orange color Filter (Option)	1



* Glasses (loupe) are not included in KS-21 products.

KS-07

Head Light with Camera

Strong Point

It has "all-in-one" style

Since the camera is built-in, there no need to equip/install another separately

It has Cordless

Able to record, without power, in MicroSD card and rechargeable battery cordlessly.

It has dual usage (battery and/or power)

It has rechargeable battery. You may use cordlessly. When in emergency or longer usage, it is also capable to connect power source. (option)

It has LED lamp

It is built-in LED lamp(5500K), it lights brighter and clearer light for over 50,000 hours.

1.7X Loupe is provided as free accessory

Simple installable free 1.7X Loupe is provide.

It is able to record and/or demonstration

For several purposes and usages, it is able to record using MicroSD card. Also able to demonstrate using video cable.

K-scope Viewer Program is provide

It is provided own-use "K-scope Viewer" program. This is capable to make "time-reset" and "voice cancellation"

Specification

LED	5500K Power LED
Battery	2,600mA Li-ion Battery
Camera	1/4" CMOS WXGA (1 megapixel) HD sensor Memory : MicroSD (SDHC 2GB~32GB) Resolution and Frame : 1280x720 HD / 30fps Output : TV OUT (composite) / Sound : Built-in Mic.
Lens	Scientifically arranged three optical lens



Light and Camera



1.7x Loupe

Convenient Functions

Sound (and/or alarm)

- ① When in no MicroSD card
- ② When in low battery voltage
- ③ When in camera on/off

Adjust camera focus

Adjust camera angle

Automatic time-resetting (K-scope Viewer)

Voice cancellation (K-scope Viewer)

Extension video Cable (Option)



Components

- | | |
|--|---|
| ① Headlight main body | 1 |
| ② 1.7X Loupe | 1 |
| ③ Loupe Holder | 1 |
| ④ Rechargeable Battery | 2 |
| ⑤ Battery charging holder | 1 |
| ⑥ Charging Adapter | 1 |
| ⑦ MicroSD Card (included "K-scope Viewer") | 1 |
| ⑧ MicroSD Card reader | 1 |
| ⑨ Video Cable | 1 |
| ⑩ USB Cable | 1 |
| ⑪ Manual | 1 |



Optional Accessories



Extension Video Cable (3M)



Video and power Cable

KS-05

Operating LED Head Light

Strong Point

- Brightness is more than 50,000 Lux
- Semi-permanent life with usage of LED lamp (50,000hours)
- No UV radiation
- Suitable for operating because of no heat from the lamp
- Use Li-ion battery that can be recharged more than 800 times
- 3-Hours of continual use with one recharge
- Delicate design without any exposed wires
- Excellent heatsink design and economical price
- The head band is made of soft leather
- Free angle adjust 1.7X loupe equipable (option)
- Light Spot (9cm at 25cm)
- Stepless light intensity control (0~100%)
- Lens assembly : scientifically arranged three optical lens

Model

Light color	Type of battery	Accessories
White	Battery integrated type	①×2, ②, ③
	Belt clip battery pack type	④, ⑤, ⑥
	Total type	①×2, ②, ③, ④, ⑤, ⑥

Light Comparison



① Integrated Battery(2,600mAh)



② Battery charging holder
③ Charging Adapter(Integrated type)



④ Belt clip Battery pack(5,200mAh)
⑤ Charging Adapter(Belt clip battery pack type)
⑥ Cable(Belt clip battery pack)



⑦ 1.7x Loupe (Option)

KS-02,03

Rechargeable LED Head Light

Strong Point

- Brightness is more than 50,000 Lux
- The lamp has a semipermanent life (50,000 hours)
- The charging battery can be used for more than 800 times.
- Battery with huge capacity can be used for 3.5hr for one charge.
- Free angle adjust 1.7X loupe equipable (option)
- Stepless light intensity control (0~100%)
- The head band is made of soft leather.
- Adjustable light spot size (KS-02, 03)
- Excellent heatsink design and economical price
- Delicate design without any exposed wires

Model

Light color	Type of battery	Accessories
Warm (KS-02)	Battery integrated type	①×2, ②, ③
	Belt clip battery pack type	④, ⑤, ⑥
	Total type	①×2, ②, ③, ④, ⑤, ⑥

Light color	Type of battery	Accessories
White (KS-03)	Battery integrated type	①×2, ②, ③
	Belt clip battery pack type	④, ⑤, ⑥
	Total type	①×2, ②, ③, ④, ⑤, ⑥



Loupe mounted Model



Battery integrated type(full set)



Belt clip battery pack type(full set)



Total type(full set)

SO-05 ST-05

Rechargeable LED Otoscope / Throatoscope

Strong Point

- Using the power LED lamp, the lamp, has a semi-perment life(50,000hours)
- Sunlight-like natural white color (white type)
- Fiber optic cool light type (otoscope)
- Two type of light color (white, warm)
- Sealed system allows for pneumatic otoscope
- Over 3.5hrs of continuous use per one charge
- The charging battery can be used for more than 800 times
- Micro push button switch
- Light weight and durable aluminium handle
- Low price and excellent heatsink design
- Sharpe and luxury design.



Throatoscope
ST-05

Otoscope
SO-05

Model

Charging type	Name	Consist of						Lightcolor
		Otoscope	Throat-scope	Tavle top charger	Direct charger	Speculum		
Table top charger type	K-Scope set	o	o	o		o	White or Warm	
	Otoscope set	o		o		o		
	Throatoscope set		o	o				
Direct charger type	K-Scope set	o	o		o	o		
	Otoscope set	o			o	o		
	Throatoscope set		o		o			



Speculum set



Table-top charge type k-scope set



Direct type Throatoscope set



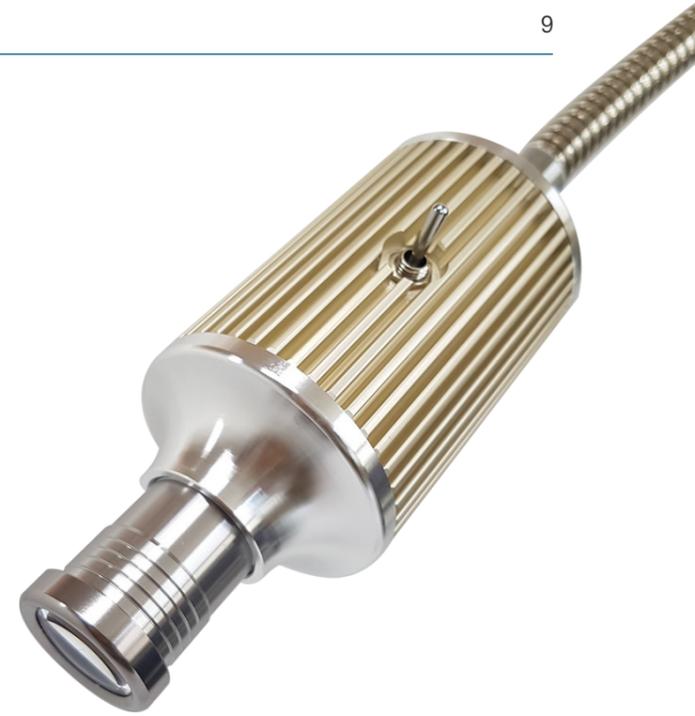
Direct type Otoscope set

SOL-02, 03

LED Side Light

Strong Point

- First in the world that uses LED lamp as a operating light (Patented)
- Can use it as an astral light and cheaper than any other operating light
- Bright and clear light with 50,000 Lux
- Using LED lamp, making it Semi-permanent life (50,000hours)
- Accessible to operating field at close range due to its small size
- No UV radiation
- Suitable for operating because of no heat from the lamp
- Smooth movement to the desired location due to high-tensile spring
- Low noise, excellent heatsink design
- Light spot (9cm at 25cm)



Model

- SOL-02 (Table-top light) | Exam. table, operating table mountable
- SOL-03 (Stand Light) | Light stand type is mobile
- Rechargeable light available (option)
- Bright control is also available (option)

Light



Light Head (Brightness adjustable)



SOL-02 (Table-top light)



SOL-03 (Stand Light)

GLU-1R

I. V. Pole Light Dressing Car Light

Strong Point

- Rechargeable Light
- 5,200mA li-ion battery
- Can use 6-7hr
- Easy to installation (pipe size : max Ø40mm)
- Using LED lamp
- Scientifically arranged three optical lens
- Accessible to Operating field at close range due to its small size
- Light Spot (9cm at 25cm)
- Easy to installation



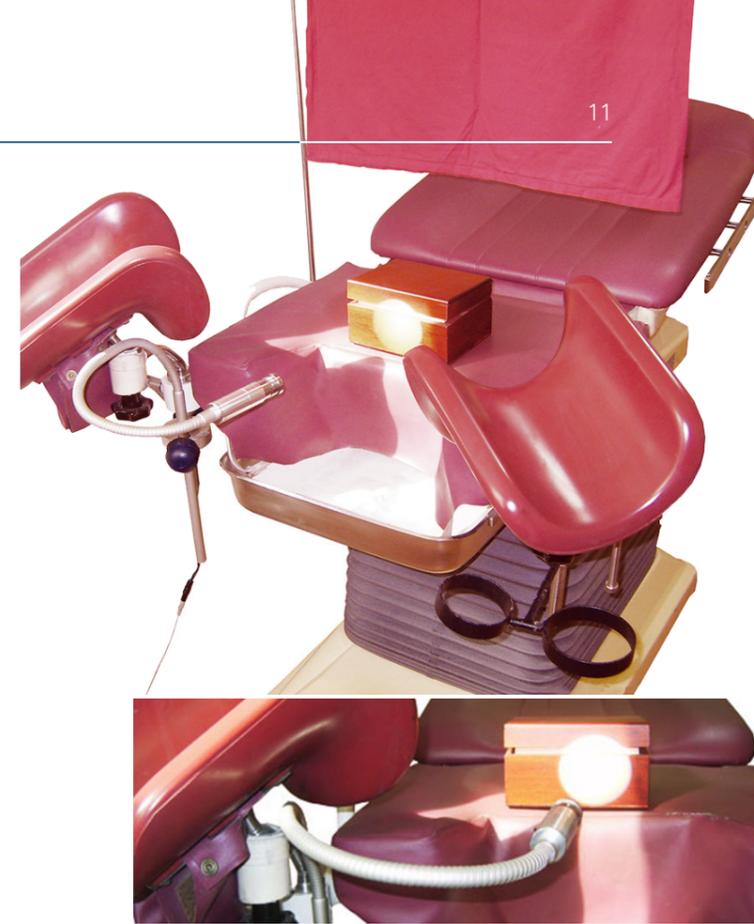
Dressing Car Light

GLU-1

Light for OB/Gyn Table

Strong Point

- First in the world that uses LED lamp as a light for OB/Gyn table (Patented)
- Bright and clear light with 50,000 Lux
- Using LED lamp, making it Semi-permanent life (50,000hours)
- Accessible to Operating field at close range due to its small size
- No UV radiation
- Suitable for operating because of no heat from the lamp
- Smooth movement to the desired location due to high tensile spring
- Low noise, excellent heatsink design
- Light Spot (9cm at 25cm)
- Easy to installation



Head



I. V. Pole Light



Rechargeable Battery Pack



Clamp

Handle for Endoscope

Strong Point

- It replace Light source and fiber optic light cable.
- Semi-permanent life with usage of Power LED Lamp.
- No UV radiation and heat from the Lamp.
- Use 2,600mA Li-ion rechargeable battery that can be recharged more than 800 times.
- Economical price.
- Cordless.



Handle for Endoscope



Direct type charger



Table top charger

※ Endoscope is not provided by our company.



Saehanul Biotech Co., Ltd.

Saehanul Biotech Co., Ltd.

Room No. 301, Sinwon Visiontower, 88, Jeonpa-ro, Dongan-gu, Anyang-si, Gyeonggi-do, Korea

Tel +82 31)478-8766

Fax +82 31)478-8768

www.kscope.kr