EXCELLENT TEAM
Company profile

As a large-scaled stock enterprise, Kernel Medical Equipment Co. Ltd dedicates itself to R&D, production, marketing and service of hi-tech-oriented medical equipment. Kernel company has passed through FDA, CE and ISO9001 quality authentication earlier than other companies in this field, who is also an UN supplier.

Kernel emphasizes importance of market construction and expansion both at home and abroad. Now there are over hundreds of distributors in the domestic market and abroad. The excellent after-sale service and flexible market operation mechanism enlarges and perfect its international networks of marketing and service.
KN-4001A/B/AB

UV Phototherapy

The leader of UV Phototherapy industry

- 8" TFT LCD touching screen, case management function
- With stable and long usage life Philips special UV lamps as light source
- 40 pieces 100W UV lamps, various combinations
- Microcomputer controls on dose and time to guarantee the treatment precision
- PUVA output and NBUVB output work separately or simultaneously
- High intensity UV phototherapy output effective treatment can reduce treatment cycles and times
- Microcomputer real-time display the working status of the equipment
- Hardware and software double monitoring function, ensure the patients’ safety
- Scientific ventilation and cooling system, wide and comfortable treatment space
- Unique anti-interference technology, ensure the normal use of equipment in strong magnetic field
- Optional special software of remote control and case management functions
- With optional UV intensity measurement system, real-time displays the irradiation intensity

**Specification:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>KN-4001A</td>
<td>40×100W—UVA</td>
</tr>
<tr>
<td>KN-4001B</td>
<td>40×100W—NBUVB</td>
</tr>
<tr>
<td>KN-4001AB</td>
<td>20×100W—UVA, 20×100W—NBUVB</td>
</tr>
</tbody>
</table>

**UV lamp parameter:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Wavelength (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TL100W/01</td>
<td>311-312nm</td>
</tr>
<tr>
<td>TL100W/10-R</td>
<td>340-400nm</td>
</tr>
<tr>
<td>TL100W/09</td>
<td>320-400nm</td>
</tr>
</tbody>
</table>
KN-4002A/B/AB

UV Phototherapy

The leader of UV Phototherapy industry

- Stable and long usage life Philips special UV lamps as light source
- 10 pieces UV lamps of various combinations (PUVA, NBUVB, PUVA & NBUVB), high intensity UV light output to reduce treatment times
- Microcomputer controls the radiation dose and time
- PUVA output and NBUVB output work separately or simultaneously
- Build-in reflector, improves the efficiency of irradiation
- Treatment head can be lifted up and down electronically (Vertical distance: ≥33 cm, rotation angle: ≥90°.), and it can be locked in any angle and rotated in a certain angle; patients can choose to sit or lie during treatment
- Microcomputer control ensures the patients’ safety
- Unique anti-interference technology, ensure the normal use of equipment in strong magnetic field
- Optional special software of remote control and case management functions
- Optional UV intensity measurement system

<table>
<thead>
<tr>
<th>Specification:</th>
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<tbody>
<tr>
<td>KN-4002A 10×40W—PUVA</td>
</tr>
<tr>
<td>KN-4002B 10×20W—NBUVB</td>
</tr>
<tr>
<td>KN-4002AB 6×40W—PUVA, 4×20W—NBUVB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UV lamp parameter:</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;TL20W/01&quot;</td>
</tr>
<tr>
<td>&quot;TL20W/01R&quot;</td>
</tr>
<tr>
<td>&quot;TL40W/09R&quot;</td>
</tr>
</tbody>
</table>

Treatment head can be lifted up and down electronically
It can be locked in any angle and rotated in a certain angle
KN-4002A1/B1/AB1

KN-4002A2/B2/AB2

KN-4002A1/B1/AB1: 600mm×220mm×700mm (L×W×H)
KN-4002A2/B2/AB1: 600mm×140mm×700mm (L×W×H)
KN-4002B: 750mm×750mm×1700mm (L×W×H)
KN-4002

UV Phototherapy

The leader of UV Phototherapy industry

- With stable and long usage life Philips special UV lamps as light source
- High-grade professional design, with optional floor type and desk type
- Microcomputer controlling of dose and time ensures the treatment accuracy, convenient for doctors to operate
- Easy to operate with remote controller, treatment head can be rotated by 90° (KN-4002A/B1)
- Internal reflectors improve the efficiency of exposure
- Unique anti-interference technology ensures the normal use of equipment in strong magnetic field
- Unique voice prompt function makes treatment process more humanization
- Air operated stand is optional (KN-4002A/B/AB4), which can move the radiator up and down

### Specification:

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
<th>Type</th>
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<tbody>
<tr>
<td>KN-4002A</td>
<td>8×40W</td>
<td>UV A</td>
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<tr>
<td>KN-4002B</td>
<td>5×20W</td>
<td>NB UV B</td>
</tr>
<tr>
<td>KN-4002A/B</td>
<td>4×40W</td>
<td>UV A, 4×20W — NB UV B</td>
</tr>
<tr>
<td>KN-4002A/B</td>
<td>4×40W</td>
<td>UV A</td>
</tr>
<tr>
<td>KN-4002B/B</td>
<td>4×20W</td>
<td>NB UV B</td>
</tr>
<tr>
<td>KN-4002A/B</td>
<td>2×40W</td>
<td>UV A, 2×20W — NB UV B</td>
</tr>
<tr>
<td>KN-4002B/B</td>
<td>2×40W</td>
<td>UV A</td>
</tr>
<tr>
<td>KN-4002A/B</td>
<td>2×40W</td>
<td>NB UV B</td>
</tr>
</tbody>
</table>

### UV lamp parameter:

- TLX20W/01: 311-312nm
- TLX40W/10-1R: 340-400nm
- TLX40W/09R: 320-400nm
KN-4003

UV Phototherapy

The leader of UV Phototherapy industry

- Stable and long usage life Philips special UV lamps as light source
- Small volume and light weight, convenient for patients to carry
- Light and portable, low price, suitable for home use
- High intensity output and obvious treatment effect
- Build-in reflector increases the efficiency of exposure
- Special comb is easy for the treatment of scalp parts
- Timer function is optional

■ Specification:

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
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<tbody>
<tr>
<td>KN-4003A/AL</td>
<td>1×9W—UVA</td>
</tr>
<tr>
<td>KN-4003B/BL</td>
<td>1×9W—NUJVBR</td>
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</table>

■ UV lamp parameter:

<table>
<thead>
<tr>
<th>Lamp Type</th>
<th>Wavelength</th>
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<tbody>
<tr>
<td>PL-SFPW/01/2P</td>
<td>311-312nm</td>
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<tr>
<td>PL-SFPW/10/2P</td>
<td>340-400nm</td>
</tr>
</tbody>
</table>
KN-4003B1/B2 (LED)  
**UV Phototherapy**

The leader of UV Phototherapy industry

- Fashionable streamlined design, make it delicate, portable and suitable for home use
- Deep ultraviolet (DUV) SMD-LED light source, more steady irradiation intensity, lifetime can be six times than the ordinary UV lamp
- Two kinds of treatment heads optional, can meet different requirements
- Time and Dose treatment modes, as well as MED test function
- With external replaceable lithium-ion battery, work time can up to 120mins
- Standard Mini USB can be connected to USB power adapter or computer for charge
- OLED display, low power consumption, large viewing angle

**Specification:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KN-4003B1</td>
<td>5×4 Chip module +1 Single-Chip LED</td>
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<tr>
<td>KN-4003B2</td>
<td>9 Single-Chip LED</td>
</tr>
</tbody>
</table>

**UV lamp parameter:**

| LED | 300-320nm |

The treatment is especially suitable for the treatment of early stage cases and children.
KN-4003

UV Phototherapy

The leader of UV Phototherapy industry

- Small size and light weight, convenient for patients to carry
- Hand-held operation, flexible to treat
- Easy operation, suitable for home use
- With Bluetooth function, can interact with smart phone APP and get free treatment consultation
- Electronic prescription mode is optional. Patient can treat at home as per physician’s prescription or download physician’s prescription via APP. The APP can control the treatment process and make it more convenient and safe
- With microcomputer timer function
- The LCD screen direction can be adjusted if needed
- Use special optical materials acrylic shield to provide a more secure protection
- Dust-proof and water-proof level up to IP22, easy to use at home
- Unique comb for distance guide as well as the scalp treatment
- AC/DC power optional

*** Specification: ***

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
<th>Type</th>
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<tbody>
<tr>
<td>KN-4003ALi</td>
<td>1x1W</td>
<td>UVA</td>
</tr>
<tr>
<td>KN-4003BLi</td>
<td>1x1W</td>
<td>UVC</td>
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*** UV lamp parameter: ***

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
<th>Wavelength</th>
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<tbody>
<tr>
<td>PL-15W/01/4P</td>
<td>311-312nm</td>
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</tr>
<tr>
<td>PL-51W/10/2P</td>
<td>340-400nm</td>
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</table>

Support SD card
Dust and waterproof
Flip screen
Precise treatment
KN-4004

UV Phototherapy

The leader of UV Phototherapy industry
- Stable and long usage life Philips special UV lamps as light source
- 8 pieces UV lamps of various combinations
- High-grade professional system design Color LCD, Chinese and English interface
- Multi-user management, accumulation of working time, and display of time countdown and dose countdown simultaneously
- Encoder technology makes operation more convenient and efficient
- Microcomputer controls dose and time to guarantee the treatment accuracy
- PUVA and NBUVB work separately or simultaneously
- High-intensity UV light output reduces the treatment times but with obvious effect
- Hardware and software double monitoring function ensure the patients' safety
- Unique anti-interference technology ensures the normal use of equipment in strong magnetic field
- Case management function

**Specification:**

<table>
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<th>Model</th>
<th>Description</th>
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</thead>
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<tr>
<td>KN-4004A</td>
<td>8×100W—UVA</td>
</tr>
<tr>
<td>KN-4004B</td>
<td>8×100W—NBUVB</td>
</tr>
<tr>
<td>KN-4004AB</td>
<td>4×100W—UVA, 4×100W—NBUVB</td>
</tr>
<tr>
<td>KN-4004A</td>
<td>4×100W—UVA</td>
</tr>
<tr>
<td>KN-4004B</td>
<td>4×100W—NBUVB</td>
</tr>
<tr>
<td>KN-4004AB</td>
<td>2×150W—UVA, 2×100W—NBUVB</td>
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</table>

**UV lamp parameter:**

<table>
<thead>
<tr>
<th>Lamp Type</th>
<th>Wavelength (nm)</th>
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</thead>
<tbody>
<tr>
<td>TL100W/01</td>
<td>311-312</td>
</tr>
<tr>
<td>TL100W/10-R</td>
<td>340-400</td>
</tr>
<tr>
<td>TL100W/0P</td>
<td>320-400</td>
</tr>
</tbody>
</table>
KN-4005A/B/AB

910mm×970mm×2300mm (L×W×H)
KN-4005A/B/AB

UV Phototherapy

The leader of UV Phototherapy industry

- Stable and long usage life Philips special UV lamps as light source
- 26 pieces UV lamps and various combinations
- PUVA and NBUVB work separately or simultaneously
- High intensity UV light output reduces the treatment cycles and times but with obvious effect
- Microcomputer controls the dose and time to guarantee the treatment precision
- Hardware and software double monitoring function ensures the patients' safety
- Scientific ventilation and cooling system, wide and comfortable treatment space
- Unique anti-interference technology ensures the normal use of equipment in strong magnetic field
- Color LCD displays dose, time and intensity
- Auto alarm and voice prompt function
- Case management function, real time displays intensity
- UV intensity measurement system is optional

- Specification:

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>KN-4005A</td>
<td>26x100W—UVA</td>
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<tr>
<td>KN-4005B</td>
<td>26x100W—NBUVB</td>
</tr>
<tr>
<td>KN-4005A/B</td>
<td>13+100W—UV A, 13+100W—NBUVB</td>
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- UV lamp parameter:

<table>
<thead>
<tr>
<th>Lamp Type</th>
<th>Wavelength</th>
</tr>
</thead>
<tbody>
<tr>
<td>TL100W/01</td>
<td>311-315nm</td>
</tr>
<tr>
<td>TL100W/10-R</td>
<td>340-400nm</td>
</tr>
<tr>
<td>TL100W/09</td>
<td>320-400nm</td>
</tr>
</tbody>
</table>
KN-4006A/B

KN-4006AL/BL

400mm x 190mm x 180mm (L x W x H)
KN-4006

UV Phototherapy

The leader of UV Phototherapy industry

- Stable and long usage life Philips special UV lamps as light source
- Narrow band UV light with high intensity and long usage life
- Multiple configuration is optional, intelligent controlling
- Small volume, light weight, convenient to carry
- Unique structure, suitable for clinical and home use
- Optional voice prompt function

**Specification:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Light Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>KN-4006A/AL</td>
<td>2 x 9W UVA</td>
</tr>
<tr>
<td>KN-4006B/BL</td>
<td>2 x 9W UBV</td>
</tr>
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</table>

**UV lamp parameter:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Wavelength</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL-SPW/01/2P</td>
<td>311-312nm</td>
</tr>
<tr>
<td>PL-SPW/1D/2P</td>
<td>340-400nm</td>
</tr>
</tbody>
</table>
KN-4006AL1/BL1

Dust and waterproof IP22  Special APP  Bluetooth function  Internal power supply  Electronic prescription  Case management

350mm×99mm×46.5mm (L×W×H)
KN-4006

UV Phototherapy

The leader of UV Phototherapy industry

- Small size and lightweight, convenient for patients to carry
- Hand-held operation, flexible to treat
- According to the treatment need, patients can choose PUVA or NBUVB lamp
- Easy operation, suitable for home use
- Bluetooth function, can interact with smart phone APP and get free treatment consultation.
- Electronic prescription mode is optional. Patient can receive treatment at home as physician's prescription or download physician’s prescription via APP. The APP can control the treatment process and make it more convenient and safe
- Microcomputer timer function
- The LCD screen direction can be adjusted if needed
- Use special optical materials acrylic shield to provide more secure protection
- Dust-proof and water-proof level up to IP22, easy to use at home
- Proximity sensor, can fast positioning the work distance to make the treatment more accurate
- AC/DC power optional
- Special tools to replace the lamp, make replacement easier

<table>
<thead>
<tr>
<th>Specification:</th>
<th>UV lamp parameter:</th>
</tr>
</thead>
<tbody>
<tr>
<td>KN-4006A Li2</td>
<td>2×9W—UVA</td>
</tr>
<tr>
<td>KN-4006B Li1</td>
<td>2×9W—NBUVB</td>
</tr>
</tbody>
</table>

Support SD card
Dust and waterproof
Flip screen
Precise treatment
KN-4006

UV Phototherapy

The leader of UV Phototherapy industry

- Stable and long usage life Philips special UV lamps as light source
- Protected by special acrylic shield, meet all clinic needs
- Press-key control, convenient and flexible
- Varies of configurations and intelligent control function
- Special design, for clinic and home use
- Timer countdown function

![Image of KN-4006 UV Phototherapy device]

**Specification:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>KN-4006A1</td>
<td>4×9W—UVA</td>
</tr>
<tr>
<td>KN-4006B1</td>
<td>6×9W—NBUVB</td>
</tr>
<tr>
<td>KN-4006A2</td>
<td>4×36W—UVA</td>
</tr>
<tr>
<td>KN-4006B2</td>
<td>4×36W—NBUVB</td>
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**UV lamp parameter:**

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Wavelength</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL-5FW/0/2P</td>
<td>311-312nm</td>
</tr>
<tr>
<td>PL-5FW/10/2P</td>
<td>340-400nm</td>
</tr>
<tr>
<td>PL-L 26W/01/4P</td>
<td>311-312nm</td>
</tr>
<tr>
<td>PL-L 38W/10</td>
<td>340-400nm</td>
</tr>
</tbody>
</table>

![Image of KN-4006 UV Phototherapy device with different angles]
**Spectral curve**

![Graphs showing spectral curves for different UV lights](image)

**KN-4000 Series Clinical Applications**

Psoriasis, Vitiligo, Obstinate Eczema, Pityriasis Rosea, Atopic Dermatitis, Itchy Skin

![Before and After treatment images](image)
KN-4000M  UV Skin Tester for MED and MPD

Features:
- Small and portable, easy to carry
- Five dose values can be measured simultaneously, measuring will be more simple and precise
- Apply to multiple UV phototherapy instruments
- Flexible fixation, suitable for testing different parts

Diameters:
- Dimension: 133mm x 60mm x 15mm
- Single hole size (regular hexagon): side length: 10mm
- Hole quantity: 5
- Dose output ratio (hole 1 to hole 5 decreasing): 100%, 60%, 40%, 20%

Can be used together with KN-4000 series products

High quality outfitting  MED Testing figure  Can be used together with KN-4003
KN-4000 **Accessory**

- Intensity Collection Probe
- Handheld UV Lightmeter
- Special anti goggles
- LED display, easy to operate
- Data freeze function
- Convenient and efficient to change Probes when collecting different wavelengths

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KN-4000 **Professional Work Station**
KN-9000 LED Wood's Lamp

Upcoming listing......
KN-5000A/B

**Derma 308 Targeted Phototherapy**

The leader of UV Phototherapy industry

- 8” TFT touching LCD screen, flexible and practical treatment handle
- Spot size adjustable, useful to treat small area with skin disease, pointing light function improves accurate positioning of diseased skin
- High intensity UV light output, reduce the treatment cycles and times
- Special designed handle for better targeted and more suitable to the position of disease, while traditional light source is difficult to reach
- Built-in specific UV dose program, automatic six spots skin light toxicity test
- With accurate calibration system, enhance the reliability of the dose output
- Exclusive use of liquid optical fiber, guarantee high-efficient transmission
- Unique designed footswitch is easy to operate and control the UV light output
- Available to choose single or continuous irradiation treatment program
- With optional Derma 308 targeted phototherapy system workstation

Output radiation intensity range:
- UV A: 100mW/cm²–550mW/cm²
- UV B: 20mW/cm²–250mW/cm²
- Spot measurement: 20mm x 20mm

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**KN-5000A/B Clinical Applications**

Psoriasis, Vitiligo, Neurodermatitis, Seborrheic dermatitis, Atopic dermatitis, Scleroderma, Photosensitive dermatitis; Recommended for use if lesions occur less than 10% of the body area
Other Products

Patient Monitor

Colposcope

www.kernelmonitor.com

www.kernelcolposcope.com
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