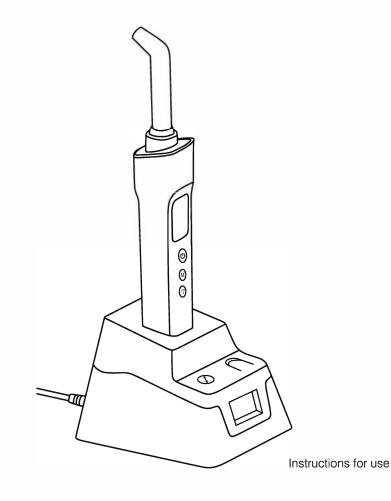


# DENTAL CURING LIGHT

# **LEDEX**<sup>TM</sup> **W/L-120**

COMBO OF CURING LIGHT



CE

# One Touch, And You Will Enjoy The Powerful Light

Dear Customer,

Thank you for choosing DENTMATE LEDEX WL-120 Dental curing light.

A lot of researches & developments have gone into the manufacturing of this product. We sincerely hope that it will give you many years of trouble-free use. Please read and understand all the instructions before using this equipment, and save this instruction for use for your reference.

The instruction for use is subject to change without further notice.



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## 1. Symbols Used

#### 1.1. In these instructions for use



If the instructions are not followed properly, the operations may lead to hazards for the product or the user/patient.

#### 1.2. On the product/packaging

SN	Serial number	REF	Catalogue number
	Manufacturer		Date of manufacture
	Class II (AC Adapter)	i	Consult the instructions for use
×	This shows the Type B applied part.		Do not dispose it with normal household waste
	Recycling	IPX0	Ordinary equipment
EC REP	EU-representative	50kPa	Atmospheric pressure for storage
10° C	Temperature limits	10% -95%	Storage humidity range
CE	CE marking	Ť	Keep dry

#### 2. Product Information

The light has been manufactured with a super-high luminosity 10 W LED. The light wavelength of LEDEXWL-120 is between 390-480nm and the light intensity is up to 3200mW/cm<sup>2</sup> It can cure the composite over 2mm in 1 second. These characteristics especially enable to phenyl propanedione (PPD) and Lucirine TPO photoinitiator.

LEDEX WL-120 dental curing light is characterized by :

- 7 powerful extensive modes including Low, Ramp, Standard, High, Turbo, Plasma, White modes. In each curing mode, the ortho cycles and curing time can be adjusted.
- The light guide rod is made from genuine optical fiber instead of inferior acrylic that optimizes light conduction and minimizes loss of light from source to tip. It ensures the highest possible intensity of light at the light guide tip.
- Advanced and high efficient cooling heat sink is designed and accompanied with over-heating prevention. A thermal protection circuit and safety mode are also designed to prevent the light from overheating.
- The automatic memorization of the last operation is another unique feature of the light.
- There is a built-in radiometer displaying light intensity.
- Automatic sleep mode saves battery and extends usage time.

#### 2.1. Indications for use

LEDEX WL-120 is a visible curing unit programmed for polymerization of dental light cured materials only by dental professionals. FOR DENTAL USE ONLY!

#### 2.2. Procedure

Please follow the instruction before use. As for handpiece instructions, please refer to 2.6-2.7. It is required to use the disposable sleeves to prevent cross infection.

Put the sleeve and cover the handpiece before operation. After conducting a surgery on a patient, please take off the sleeve and throw them away, as the sleeve is prohibited to reuse.

# 2.3. System components

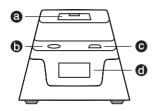
		m Description LEDEX WL-120 Handpiece Cradle	Quantity 1 1
C		Power supply(Input AC100~2 50-60 Hz, output DC5 V/2 A) Optical fiber light guide rod- (Ø 11>8 mm) Filter Anti-glare shield	240 V, 1 1 1 2
Comp Lipto Oferer	WI-120 WI-120 0 0 0 0	Disposable curing light sleeves Disposable light guide sleeves Instructions for use	<u> </u>

#### 2.4. Features



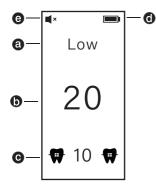
- ON-OFF : Press this button to start the handpiece. Press this button again to turn on the curing light. Pressing this button during the curing cycle will interrupt and end the cycle. If the unit is in sleep mode, press this button will wake the unit and it will display with the last mode chosen.
- MODE : Pressing this button sequentially toggles the unit through the 6 curing modes, 1 lighting mode and 1 setting mode.
- TIME : Short press this button sequentially toggles the unit through the serial curing time ; long press this button sequentially toggles the unit through the ortho cycles.
- **3** Shut down : Long press the MODE button and then press the ON-OFF button to shut down the handpiece completely.

Note: Please shut down the handpiece before transporting.



- (a) Handpiece charging slot.
- **(b)** Touch button : adjust the size 5 or 8 or 11 mm of optical fiber light guide in the display.
- C Radiometer sensor.
- **d** Display.

#### 2.5. Display

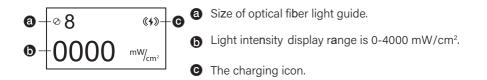


The display shows different information to the user. As shown above, it comprises different zones identified from top to bottom as follows:

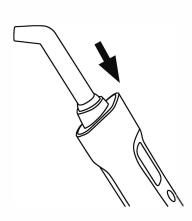
- a A display of the curing mode selected.
- This is the display of duration seconds of the selected curing cycle. During operation, this countdown display indicates the remaining activation time until the current cycle is completed.
- C The ortho cycles.

Note: Ortho cycles can be set up to 20, but the final output time will be affected by factors such as battery capacity, long time use, and ambient temperature.

- A battery charge level indicator is symbolized by a ladder with 0 to 5 levels and charging status.
- The beep sound icon, it will only be displayed when the beep sound is turned off.



#### 2.6. Installation and charging



#### Startup

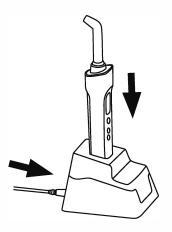
When receiving the unit, any damages may occur during transportation. If necessary, contact your supplier.

#### Handpiece

First of all, this product must be cleaned as normal preparation for each patient to prevent cross infection (see the chapter 7).

Remove the protective caps from the handpiece which should be kept whenever not in use to prevent liquid from damaging the LED. Next, insert the light guide into the handpiece and ensure the light guide is properly inserted.

Ensure the display is shown. The battery supplied is only charged to about 60% prior to shipment. Please charge for at least 4 hours until before using it for the first time.



#### Charging

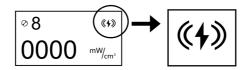
1. Connect the power supply to AC100~240 V electronic socket and plug-in the connector to the cradle. Put the handpiece into the cradle to charge the battery.



2. When the battery is low, the display of the handpiece will glow and show the low battery sign.



3. When the battery is charging, the display of the handpiece will show a charging symbol, and the screen on the charging base will also display a charging symbol.



4. When the battery is fully charged, the display of the handpiece will turn off to conserve power. Neither the main screen nor the charging base screen will display the charging symbol.



## 2.7. Operating modes

Select curing programs and curing time. The curing modes and the curing time can be set individually. LEDEX WL-120 is equipped with the following 6 curing modes and 1 lighting mode for different indications. Use the mode selection button to choose the curing programs. The display will change accordingly (see Indicators on the hand piece). The device comes equipped with the following pre-set modes :

#### Factory settings

lcon	Mode	Curing time duration (sec)	Intensity of light
Low 20	LOW	10,20,30,40	600 mW/cm² (+/-15%)
RAMP 20	RAMP	5,10,15,20,25,30,35,40	1000 mW/cm² (+/-10%)
	STANDARD	5,10,15,20,25,30,35,40	1000 mW/cm <sup>2</sup> (+/-10%)
ніан 05 Ф 10 Ф	HIGH	2,4,6,8,10	1800 mW/cm <sup>2</sup> (+/-10%)
<b>4 ■ ■ ■ ■ ■ ■ ■ ■ ■ ■</b>	TURBO	2,3,4,5	2400 mW/cm <sup>2</sup> (+/-10%)
PLASMA 01 \$ 10 \$	PLASMA	1,2,3,4	3200 mW/cm <sup>2</sup> (+/-10%)
	WHITE (H, L)	5 minutes	H: 11100 lux (+/-10%) L: 3500 lux (+/-10%)

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#### Light intensity

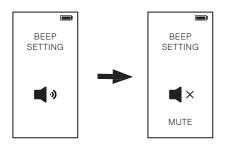
Recommended Curing Time (on STANDARD mode)

Fill Materials	Curing time
Universal composite (2 mm depth)	10 seconds
Universal composite (4 mm depth)	20 seconds

\*\*Generally, these recommendations apply depends on situations. The emission window of the light probe is placed directly over the material in order to be polymerized. Extend the curing time accordingly to increase the distance between the light source and the material.

#### Sound mode

- 1. Press button M to switch to sound setting.
- 2. In sound setting, press button T to switch between Mute and Unmute.
- 3. Press button M to return to other mode.



#### Recommended curing modes

Mode	Application
LOW	Tooth and composite resin.
RAMP	Wide area of composite resin, avoid shrinkage.
STANDARD	Most cases.
HIGH	For orthodontic or pediatric dentistry.
TURBO	Dental cement, porcelain veneer, fiber post.
PLASMA	Dental cement, porcelain veneer, fiber post.
WHITE	Visualize root canal orifice, crown fractures, root fractures and caries.

#### Safety status

NTC ERROR



OVERHEAT

When the temperature becomes quite high, the display of handpiece will show the sign of "OVERHEAT".

When the thermal sensor (NTC) is broken, the display of

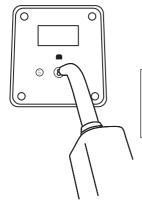
handpiece will show the sign of "NTC ERROR".

Auto sleep designed :

Handpiece - LEDEX WL-120 handpiece will sleep automatically if no operations are performed for three minutes, the display will turn off.

Cradle - LEDEX WL-120 cradle will sleep automatically if no operations are performed for 30 seconds, the display will flash the logo.

#### 2.8. Built-in radiometer



1. The symbol on the bottom of cradle can be used to confirm if the size of optical fiber light guide is match with 5 or 8 or 11mm. Note: Use inner circle as the criterion.

You can also use a standard ruler to measure the diameter of the optical fiber light guide, and the size tolerance of the optical fiber light guide is 10%.





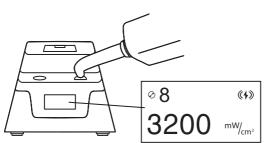
2. After confirming the size, use the touch button to adjust the size of optical fiber light guide on the display.





3. Hold the unit carefully, let the light guide attachment aligned with the radiometer sensor then press the power button. The radiometer will detect the light intensity and show on the display.

Note : Illuminating time is limited to 3 seconds, do not touch the touch button during metering.



## 3. Contraindications

For patients who are prone to photobiological reactions :

Do not use the LEDEX WL-120 dental curing light for patients with a history of photobiological reactions (including patients with Urticaria solaris or erythropoietic protoporphyria) or those who currently have treatments with photosensitising pharmaceuticals.

## 4. Warnings



#### 4.1. User

The handpiece is intended for the polymerization of light-cured materials and is used by trained and qualified professionals, such as dentists.



#### 4.2. Ambient conditions

Do not place the device in humid surroundings or any places which are close to any liquid.

Do not expose the device to any heat sources. Store the device in a safe environment.

- The device could be operated up to a maximum temperature of 35 °C and up to an altitude of 2,000 m above sea level.
- Do not use the device in the presence of free oxygen, anesthetics or flammable substances.
- The device may interference or interfere with the radio or the operation of the equipment nearby. If this happens, reduce the interference by reorienting and repositioning the device or screening off the immediate environment. The electromagnetic radiation emitted from this device is below the recommended limits specified by the applicable relevant provisions(EN 60601-1-2:2007 & EN 60601-1:2006).
- The device requires special precautions with regard to electromagnetic compatibility (EMC) and it must be installed and operated in strict compliance with the EMC information. Especially, do not use the device in the vicinity of fluorescent lamps, radio transmitters, remote controls, portable or mobile RF communication devices, even if they meet CISPR 8 requirements.
- Do not charge, operate or store the device at high temperatures. Comply it with the specified operating and storage conditions.



#### 4.3. To avoid electric shock (shock hazard)

The LEDEX WL-120 Dental Curing Light is an electric device designed to meet the worldwide electrical safety standards, which includes U.S.A. and Europe, so it's safe and effective for all dental applications.

To avoid electric shock:

- Do not attempt to open or alter the unit in any way. Only the service centers authorized by DENTMATE can open the unit housing and repair the device.
- Do not put any foreign objects into the housing of the unit.
- Use only the LEDEX WL-120 cradle when recharging this product. Never attempt to use any other devices for recharging.
- Connect the power plug into a suitably grounded and approved outlet. When you use an extend cable, make sure the grounded line is not interrupted.
- Always unplug the charging dock before disinfecting.
- Never use the power supply if the cord has been damaged.



#### 4.4. Heat development (burn hazard)

As it is the case with all high-performance lights, the high light intensity results in a certain heat development. Prolonged exposure near the pulp and soft tissues may result in irreversible or reversible damage. Therefore, this high-performance curing light must be operated by trained professionals.

Note : At least 10 mm gap between soft tissues and optical fiber light guide rod.



#### 4.5. Battery

Use only original spare parts, particularly DENTMATE batteries and charging bases. Do not short circuit battery. Do not store at temperatures above 40 °C / 104 °F(or 60 °C / 140 °F for a short period). Always store batteries charged. The storage period must not exceed 6 months. It may explode if it's disposed of in fire.



#### 4.6. Battery and Performance

Batteries are contributed to related 120 performance. All rechargeable batteries are consumables and have a limited lifespan — eventually their capacity and performance decline such that they need to be replaced. As batteries age, it can contribute to changes in 120 performance and have lower capacity which may result in fewer hours of usage between charges. If it is not easy to use in the high intensity mode like "Plasma" or "Turbo", please change a new battery.



#### 4.7. Accessories

Only use original DENTMATE components/accessories and spare parts :

Original DENTMATE accessories
LEDEX WL-120 Handpiece
Battery (3.6 V/1940mAh)
Cradle
Power supply (Input AC100~240 V, 50-60 Hz, output DC5V/2 A)
Optical fiber light guide rod-(Ø 11>8 mm)
Optical fiber light guide rod-(Ø11>5 mm)
Filter
Anti-glare shield
Disposable light guide sleeves
Disposable curing light sleeves
Ising other accessories/spare parts may

Using other accessories/spare parts may lead to increased emission of electromagnetic interference or to reduced electromagnetic interference immunity.



#### 4.8. Repairs and defects

Do not use the device if you suspect its damage or defect.

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#### 4.9. Transport

Intact devices can be transported by land freight or air freight in the original packaging. The applicable requirements must be met. Defective devices can also be transported by air freight or land freight in the original packaging. If the battery is defective, the device won't be able to be transported by air freight under any circumstances.

#### 5. Precaution

5.1. During operation, the light should be aimed straightly on the resin to ensure solidification effectively.

5.2. Never aim the light directly at unprotected soft tissues because this may lead to injury or irritation. Do not aim the light at eyes. Light reflected from the tooth surface may also injure eyes. Use the protective shield supplied with the unit or suitable, light filtering safety glasses.

## 6. Troubleshooting

Problem	Resolution
Can not turn on the handpiece	Remove the battery and insert it again. If the error persists, please plug-in the power supply to cradle and charge the battery at least 10 mins. Then push the ON/OFF button again.
Can not charge the battery	Please clean battery contacts. If the error persists, please change a new battery.
Display shows "overheat" sign	If the temperature rises up to a really level, please wait a moment and then use it again.
Display shows "Error 1" sign	LED module is unnormal, please call your qualified technician.
The intensity is too low	If the result of intensity test in Standard mode is under 700 mW/cm <sup>2</sup> , and the output is too low,please contact with your dealer.
Display shows 🔄 sign	<ol> <li>This symbol will appear when using high output power in low battery mode. It is recommended to fully charge the battery before continuing use.</li> <li>If this symbol still appears after fully charging the battery, it is recommended to replace the battery.</li> </ol>

## 7. Daily Maintenance

Read this entire section before cleaning the unit. This product must be cleaned as normal preparation for each patient to prevent cross infection.

The use of the sleeve is an additional precautionary measure against contamination and does not substitute disinfection of the device.

After using, remove the sleeve. Clean the optical light guide rods and the handpiece with cloth moisture with alcohol or cleaner. Keep solvents or flammable liquids from the unit because they may damage its plastic housing.

Always keep the charger, handpiece and light guide well. Moisture may cause electrical short-circuit or dangerous malfunction.

## 8. Disposal

Comply with your national regulations, guidelines and requirements for the disposal of end-of-life electrical equipment and batteries. Specialized dental dealers will be pleased to provide you with country-specific information concerning disposal. This device is provided with a Li-ion battery. For environmental reasons, please dispose of the device according to local environmental guidelines or regulations. Make sure the product or the battery is not mixed with other types of waste when it is disposed of. Prior to disassembly and disposal, your device has to be completely reprocessed and must not be contaminated.

## 9. Warranty

DENTMATE TECHNOLOGY Co., Ltd. warrants the product to be free of manufacturing defects for a period of one year from the date of purchase; this is deemed as the date of the invoice. It could be repaired or replaced at its own discretion all equipment failures due to manufacturing defects. However, the followings are expressly excluded from the warranty:

- 1. Damage and/or failure of the equipment caused by falling and/or jolting during transportation after purchase and/or during the normal use.
- Damage and/or failure of the equipment caused by natural disasters, such as earthquakes, floods, lightning, pollution, incorrect electrical voltage and voltage spikes.
- 3. Any attempts to open the hand piece will invalidate the warranty.

# **10. Product Specifications**

Type of Information	Specifications
Dental curing light	Medical equipment
Device name	LEDEX
Model number	WL-120
Power supply	Input: AC100~240 V, 50-60 Hz Output: DC 5 V/2 A
Battery	3.6 V, 1940 mAh, type: Li-ion
Light source	10 W LED
The range of wavelength	Blue: 390 ~ 480 nm, peak: 405, 460 nm White: 6500K ~ 7000K
Radiant intensity	Up to 3200 mW/cm <sup>2</sup> (± 10%)
Hand piece dimensions	W 30 x H 32.6 x L 173 mm
Hand piece weight (with light guide rod)	153 g
Cradle dimensions	W 86 x H 72 x L 100 mm
Cradle weight	204 g
Equipment class (AC Adapter)	Class II
Safety	IEC 60601-1
EMC(Electro-Magnetic Compliance)	IEC 60601-1-2
Protection from electric shock	Type B applied part
Protection from ingress of liquid	IPX0
Operation	Continuous operation patient application, duty cycle 120 seconds ON / 720 seconds OFF on STANDARD mode.
Operating environment	Ambient temperature: 10' C So' F So' F So' F So' F 104'
Storage and transport environment	Ambient temperature: 10° C Relative humidity: 10% 10% 10% 10% 10% 10% 10% 10%

## **11. EMC Declaration Of Conformity**

Important information regarding Electro Magnetic Compatibility (EMC) with the increased number of electronic devices such as PC's and mobile (cellular) telephones, medical devices in use may be susceptible to electromagnetic interference from other devices. Electromagnetic interference may result in incorrect operation of the medical device and create a potentially unsafe situation. Medical devices should not interfere with other devices, too. In order to regulate the requirements for EMC (Electro Magnetic Compatibility) with the aim to prevent unsafe product situations, the EN60601-1-2:2007 standard has been implemented. This standard defines the levels of immunity to electromagnetic interferences as well as maximum levels of electromagnetic emissions for medical devices.

This medical device manufactured by DENTMATE conforms to this EN60601-1-2:2007 standard for both immunity and emissions. Nevertheless, special precautions are needed to be observed:

• Do not use mobile (cellular) telephones and other devices which generate strong electrical or electromagnetic fields near the medical device. This may result in incorrect operation of the unit and create a potentially unsafe situation. Keep a minimum distance of 7 m. Verify correct operation of the device in case the distance is shorter.

Further documentation in accordance with EN60601-1-2:2007 is available within this manual referring to section "Manufacturer's Declaration".

# **12.Order Information** Spare parts / Disposable parts

WL-070 Hai	nd piece (including battery)
3100-1001	WL-070 white
3100-1002	WL-070 black
3100-1003	WL-070 orange
3100-1004	WL-070 blue
3100-1005	WL-070 green
3100-1006	WL-070 yellow
3100-1007	WL-070 pink
WL-070+ H	and piece (including battery)
3103-1001	WL-070+ white
3103-1002	WL-070+ black
3103-1003	WL-070+ orange
3103-1004	WL-070+ blue
3103-1005	WL-070+ green
3103-1006	WL-070+ red
3103-1007	WL-070+ purple
WL-070+ O (including b	RTHO Hand piece pattery)
3105-1001	WL-070+ ORTHO white
3105-1002	WL-070+ ORTHO black
3105-1003	WL-070+ ORTHO orange
3105-1004	WL-070+ ORTHO blue
3105-1005	WL-070+ ORTHO green
3105-1006	WL-070+ ORTHO red
3105-1007	WL-070+ ORTHO <i>purple</i>
WL-090 (+)	Hand piece (excluding battery)
3101-1001	WL-090

3102-1001	WL-090+	
WL-120 Hand piece (including battery)		
3106-1002	WL-120	
Power supp (mini)	ly AC100~240V/DC5V - (micro) /	
2403-0003	Micro + US clip	
2403-0004	Micro + EU clip	
2403-0005	Micro + UK clip	
2403-0006	Micro + AU clip	
2403-0007	Micro + KR clip	
2403-0008	Mini + US clip	
2403-0009	Mini + EU clip	
2403-0010	Mini + UK clip	
2403-0011	Mini + AU clip	
2403-0012	Mini + KR clip	
Optical Fibe	r Light Guide	
2402-0001	Ø8mm, <i>black</i>	
2402-0005	Ø8mm, transparent	
2402-0003	Ø8>5mm, <i>black</i>	
2402-0004	Ø8>3mm, <i>black</i>	
2402-0006	Ø11mm, <i>black</i>	
2402-0007	Ø11>8mm, <i>black</i>	
2402-0009	Ø11>5mm, <i>black</i>	
2402-0011	Ø11>3mm, <i>black</i>	
2402-0013	Shortened Ø11>8mm, black	
2402-0014	Shortened Ø8mm, black	
2402-0015	Straight Ø11>8mm, <i>black</i>	

2402-0016	Straight Ø8mm, <i>black</i>	
WL-070 Holder		
2100-0060	WL-070 white	
2100-0061	WL-070 black	
2100-0062	WL-070 orange	
2100-0063	WL-070 blue	
2100-0064	WL-070 green	
2100-0065	WL-070 yellow	
2100-0066	WL-070 pink	
WL-070+ W	/ireless Charging Stand	
3103-2008	WL-070+ white	
3103-2009	WL-070+ black	
3103-2010	WL-070+ orange	
3103-2011	WL-070+ <i>blue</i>	
3103-2012	WL-070+ green	
3103-2013	WL-070+ red	
3103-2014	WL-070+ purple	
WL-070+ O	rtho Wireless Charging Stand	
3105-2008	WL-070+ ORTHO white	
3105-2009	WL-070+ ORTHO <i>black</i>	
3105-2010	WL-070+ ORTHO orange	
3105-2011	WL-070+ ORTHO blue	
3105-2012	WL-070+ ORTHO green	
3105-2013	WL-070+ ORTHO red	
3105-2014	WL-070+ ORTHO purple	

WL-090(+) / WL-120 Cradle		
3101-2003	Cradle Fit WL-090 white	
3102-2008	Cradle Fit WL-090+ black	
3106-2004	Cradle Fit WL-120	
Battery		
2100-0050	Battery 3.6V/800mAh Fit WL-070/WL-070+/WL-070+ORTHO	
2101-0024	Battery 3.6V/3350mAh Fit WL-090/WL-090+	
2106-0029	Battery 3.6V/1940mAh Fit WL-120	
Filter		
2100-0051	Filter Fit WL-070/WL-070+ /WL-070+ORTHO, 50 pcs/bag	
2101-0026	Filter Fit WL-090/ WL-090+, WL-120, 50 pcs/bag	
Anti-glare shield		
2401-0007	8 mm, 2 pcs/set, 50 sets/bag	
2405-0002	11 mm, 2 pcs/set	
Curing Light Sleeve		
2401-0002	Light Guide Sleeve, 400 pcs/box Fit 8mm light guide	
2401-0004	Curing Light Sleeve, 100pcs/box Fit WL-070/WL-070+/WL-070+ORTHO	
2401-0006	Curing Light Sleeve, 100pcs/box Fit WL-090/WL-090+/WL-120	

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