



CHOM CHOM  
LED Beauty Mask  
432 LED  
Standard model

Intensive Skin Rejuvenation Therapy



Made in Korea



“All process from product research, development and production are conducted by Korean beauty experts with Korean beauty technology.”



iK MEDICO Co. is a professional beauty company with over 15 years of manufacturing and distributing experiences in the medical and aesthetic industries. We are only dealing in products developed by Korean technology and supplying beauty devices and cosmetics to huge beauty distributors in Europe and Asia, aesthetics and beauty clinics in Korea showing steady growth more than 200% every year.

With our own beauty device development technology, we develop and manufacture LED mask and LED neck care device in cooperation with Korean government agencies, research and development companies through national R&D projects and export support projects.



Development of  
Aesthetic devices



Domestic aesthetic  
distribution and education



Partnership with overseas  
beauty distributors



Research of new  
medical aesthetic  
technology

iK MEDICO's mission is to provide everyone with the opportunity to experience being beautiful through high quality beauty device manufacturing technology, clinically proven technology and technology tested by skin care experts. We iK MEDICO promises to grow together with our partners until everyone can experience being beautiful with the world's best beauty technologies and reasonable prices.





Beauty therapy with LED light

Gentle

Affordable

Safe

Painless

## What LED light is

LED(light emitting diode) is a semiconductor light source that emits light when current flows through it. Electrons in the semiconductor recombine with electron holes, releasing energy in the form of photons. The color of the light (corresponding to the energy of the photons) is determined by the energy required for electrons to cross the band gap of the semiconductor. LED is used for many parts of human life such as lighting, car, TV and medical industries, especially beauty therapy treatment.

## LED light for beauty therapy

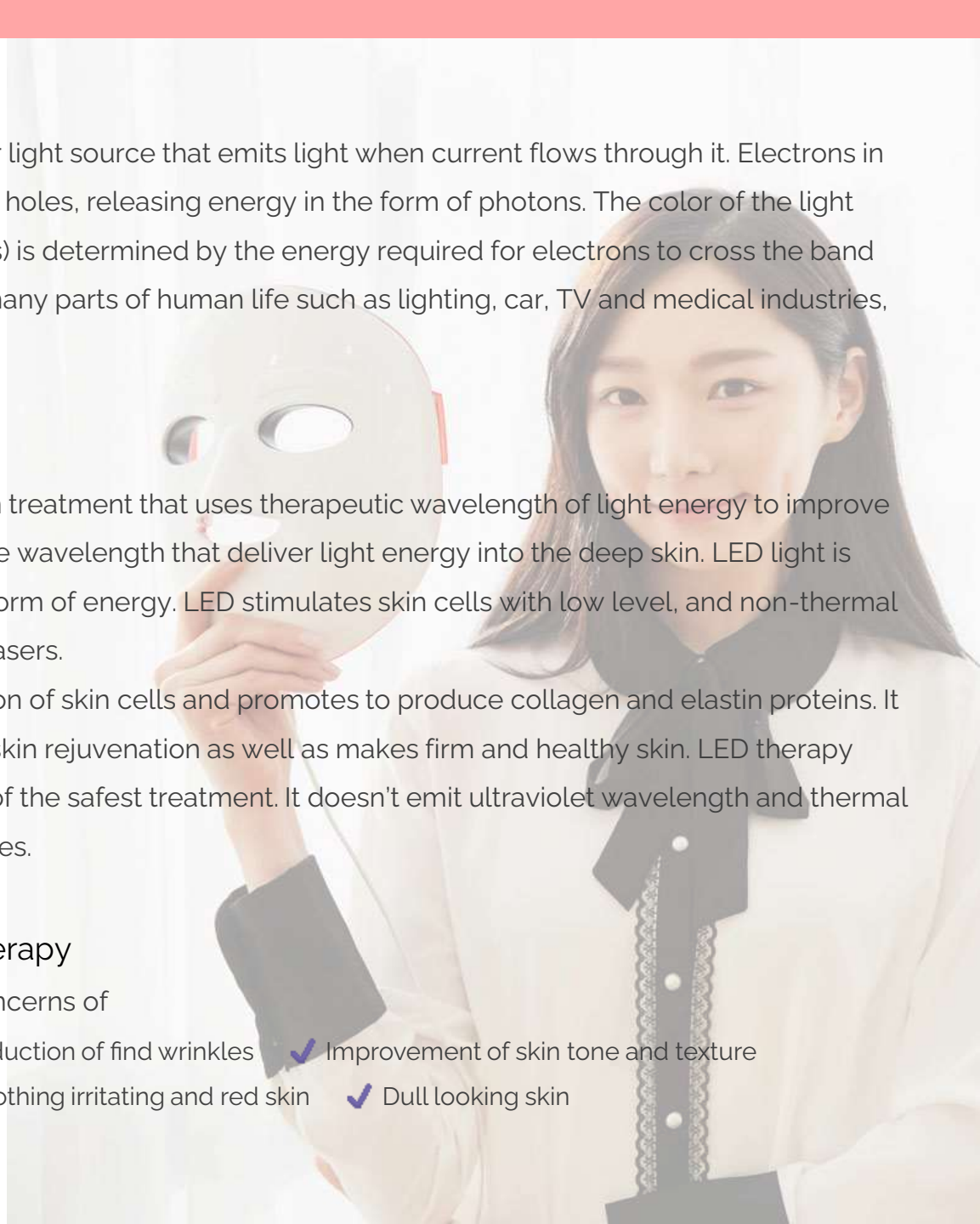
LED Light is state of the art skin rejuvenation treatment that uses therapeutic wavelength of light energy to improve skin conditions. LED uses invisible and visible wavelength that deliver light energy into the deep skin. LED light is absorbed into the skin and skin uses it as a form of energy. LED stimulates skin cells with low level, and non-thermal energy that gives damage like IPL or other lasers.

LED therapy treatment revitalizes the function of skin cells and promotes to produce collagen and elastin proteins. It is an effective treatment for anti-aging and skin rejuvenation as well as makes firm and healthy skin. LED therapy treatment is scientifically proved to be one of the safest treatment. It doesn't emit ultraviolet wavelength and thermal energy, so it is not able to damage skin tissues.

## Application of LED light for beauty therapy

LED light helps with a wide range of skin concerns of

- ✓ Age spots and pigmentation
- ✓ Reduction of fine wrinkles
- ✓ Improvement of skin tone and texture
- ✓ Sun damaged and aged skin
- ✓ Soothing irritating and red skin
- ✓ Dull looking skin
- ✓ Improvement of acne-prone skin



# CHOM CHOM LED Beauty Mask

Intensive skin rejuvenation therapy

## Strength Points

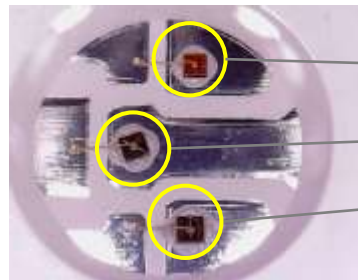
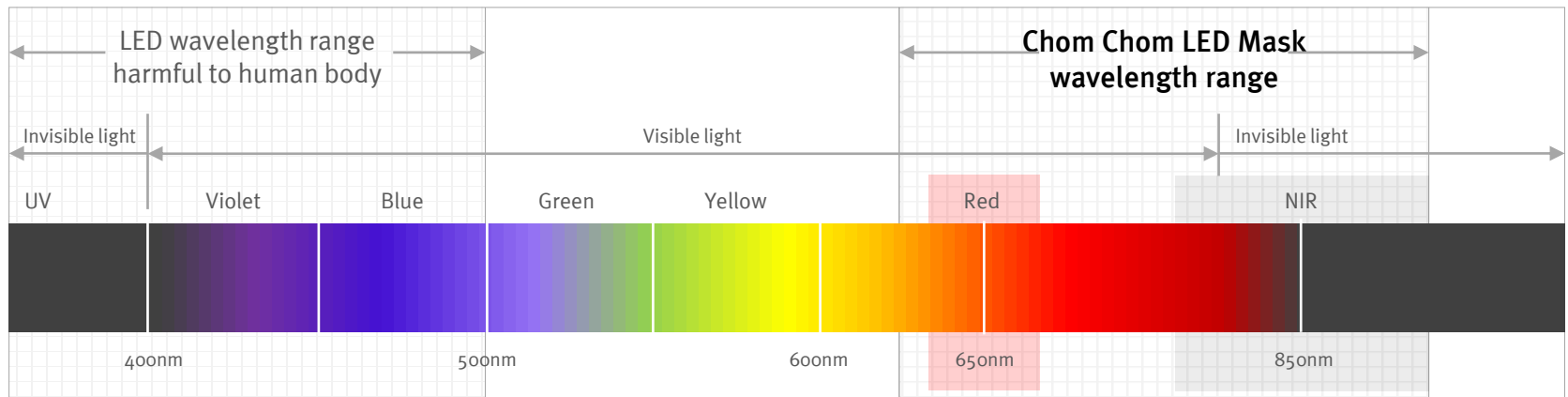
- Intensive 3 LED wavelengths  
Intensively focused on skin rejuvenation therapy  
630nm red light & 2 850nm near-Infrared
- 432 LED lights  
Enough to cover and emits LED light  
to whole face gently and effectively
- 100% Blue light & UV rays free  
To keep your facial skin and eyes safe  
No side effect and No recovery time
- Ergonomic 3D Face design  
Suitable design to fit your face  
Minimize loss of LED light energy





## Intensive 3 LED wavelengths

Chom Chom LED mask 432 LED model uses 3 LED wavelengths such as 630nm red light and 2 850nm NIR focusing on intensive skin rejuvenation therapy, differently with 576 LED model. 630nm and 850nm wavelengths are most effective for skin cell activation and improvement of elasticity and fine wrinkles. You can see immediate and noticeable rejuvenated treatment results in a few weeks.



RED light

1st NIR light

2nd NIR light

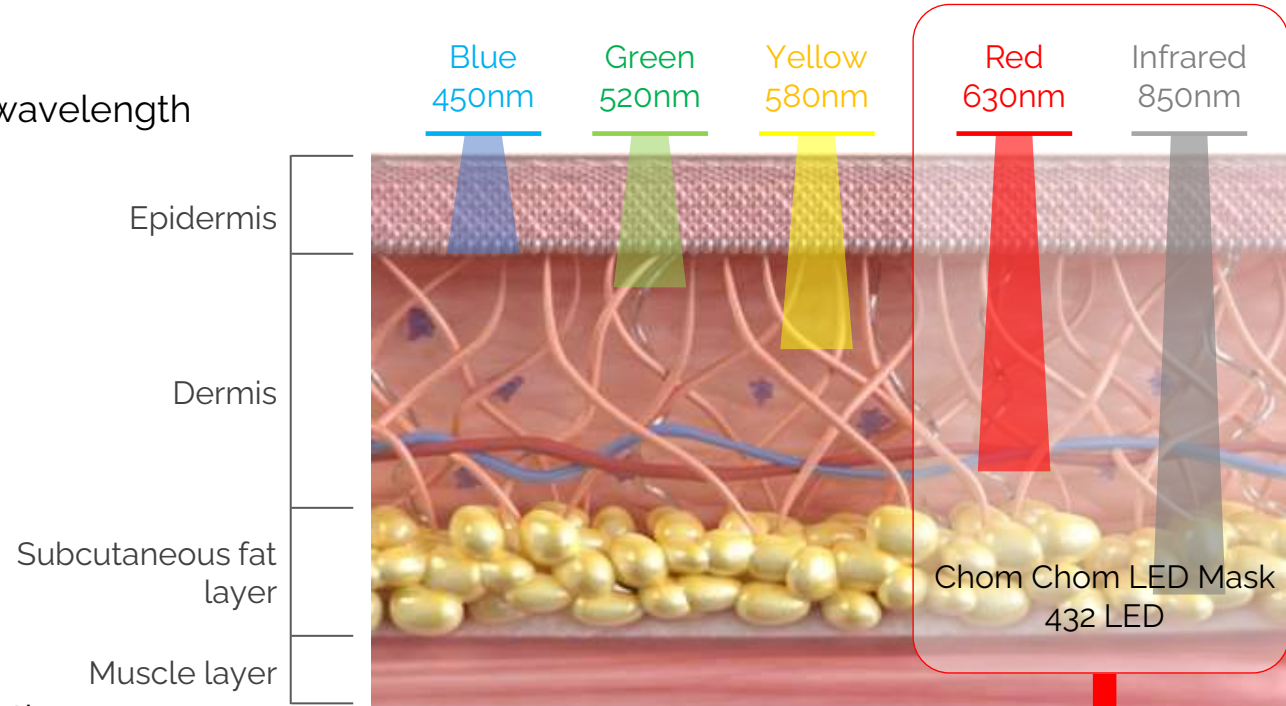
## ● 630nm red light

This wavelength is a red visible light can penetrate into the dermis layer of the skin and light energy is absorbed at a depth of 2 to 3mm. 630nm wavelength stimulates mitochondria and activates the production of ATP which is cellular energy. As a result, the production of bioenergy in skin cells is accelerated and improves the overall metabolism activity of cells. It also promotes collagen and elastin regeneration and inhibits wrinkles providing elasticity and anti-aging effect to the skin.

## ● 850nm NIR(near-infrared) light

850nm is NIR(near-infrared) invisible light. This NIR penetrates deeper into the skin than the visible light range of 400nm to 800nm and light energy is absorbed at a depth of 8mm of under dermis and subcutaneous tissue. It increases the temperature of skin cells and promotes the production of skin cells, collagen and elastin which can improve the skin tone and removing wrinkles. It also stimulates skin cells to accelerate blood circulation and supplies oxygen and nutrients to cells helping to return it to healthy condition.

## Penetration depth of each wavelength



## Functions of each wavelength

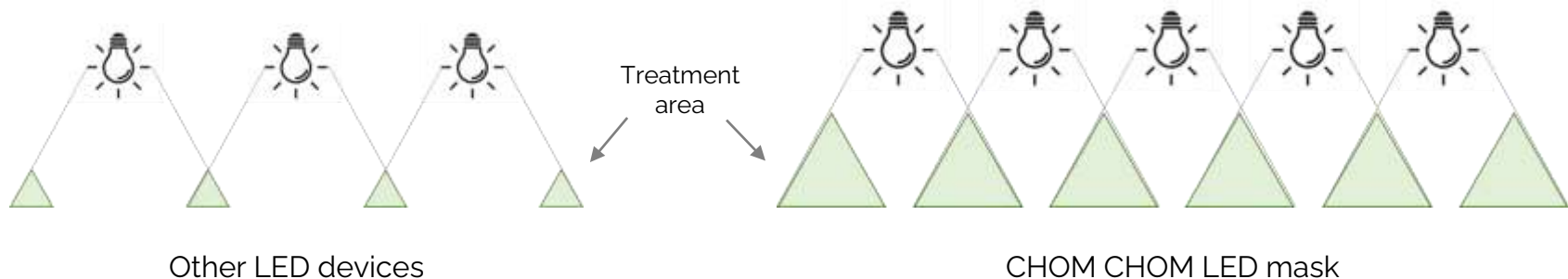
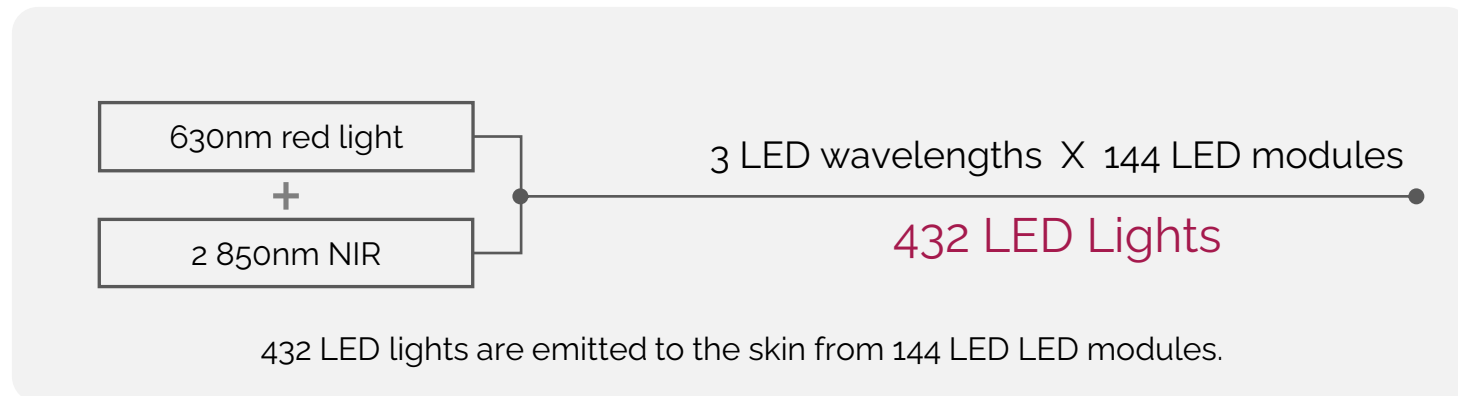
Wavelength (nm)		Depth (mm)		Effectiveness	Chom Chom LED Mask 432 LED
450	Blue	0.5	Epidermis	Eliminating bacteria that causes acne	-
520	Green	0.5 ~ 1.0	Epidermis	Soothing troubles and skin tone up	-
580	Yellow	1.0 ~ 1.5	Epidermis ~ Dermis	Improvement of spot and redness	-
630	Red	2.0 ~ 3.0	Dermis ~ Deep dermis	Reduction of fine wrinkles Improvement of skin tones and texture Increasing absorption of active ingredients of cosmetic	✓
850	NIR (invisible)	3.0 ~ 5.0	Under dermis ~ Subcutaneous layer	Regenerating collagen and elastic fiber Activating skin cells and rejuvenation Promoting blood and lymph circulation	✓



## 432 LED lights

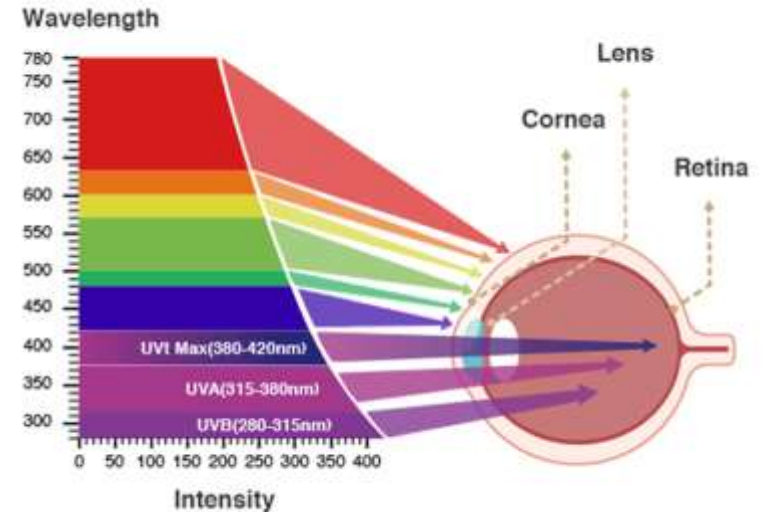
For LED beauty devices to show excellent treatment effects, the most important factors are the number of LED modules and the number of LED lights emitted from the LED modules. Chom Chom LED beauty is equipped with 144 LED modules that is the largest quantity among LED masks currently being sold in the market. Therefore, satisfaction of customers are high because of the excellent treatment effect.

CHOM CHOM LED mask has :



## ■ 100% blue light & UV rays free

Perfectly blocks blue light and UV rays that are harmful to eye and skin health.



### Blue light : Causes eye strain and various eye diseases

Blue light is frequently emitted with low power from smartphones, TVs and lightings, but the blue light from beauty devices for face and near eye can be harmful to eye health. Blue light 400-490nm has a short wavelength with high energy causing eye damage. It passes through the cornea, reaches the retina at the back of the eye, and negatively affects the nerve tissue of retinal cells. It can cause eye problems such as dryness, eyes train and blurry vision, and prolonged exposure may increase the risk of macular degeneration related eye aging.

### UV rays : Causes skin aging and diseases

When the skin is exposed to ultraviolet rays, the skin surface becomes rough and causes dryness. It produces more melanin pigment in the skin and causes hyperpigmentation causes such as spots and freckles. It also accelerates skin aging causing premature aging symptoms and wrinkles. Damaged skin due to aging and loss of oil-water balance caused by UV rays cannot be easily recovered.

## Ergonomic 3D Face design

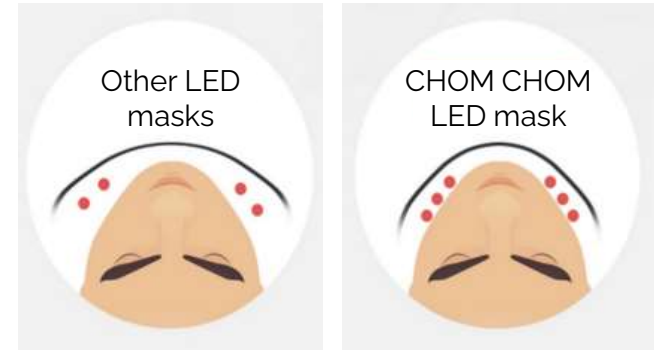
Suitable design to fit the face and minimize loss of LED light energy

Chom Chom LED mask has a round and ergonomic design that fits the face. By narrowing the distance between the LED and the surface of skin from 1cm to 3cm, the light penetrates deep into the dermis and subcutaneous fat layers.







If the distance of light is decreased in half, the light intensity is stronger 4 times.

International design patents registration number :

30-2019-0018095, 30-2018-0029150



## Comparison with other products

	A product	B product	CHOM CHOM LED mask
Emitting area			
	Normal	Narrow	Wide
LED quantity (432LED model)	60 ea × 2 wavelength = 120 ea	60 ea × 3 wavelength = 180 ea	144 ea × 3 wavelength = 432 ea
Curvedness design			
	Curved horizontal (Nose reached)	Curved vertical (Cheek reached)	Curved round and wide
	Nose reached and some space between cheek	Cheek reached and some space between nose	3D face fit design Emits LED light to whole face

# Certificates and Patents



Korea Radio waves Act



CE EMC Electromagnetic Compatibility



US Federal Communication Commission



Certificate of Patents for LED therapy and design



FDA Class 1 in 2020



2019 Korean Beauty Health Industry Awards Brand Award in LED Mask part hosted By The Korean Herald and Herald Business

## Recommended Use



Wash your face and apply facial cream or hydro gel type mask pack(transparent one)



Attach enclosed pads at top and bottom inside of LED mask



Connect USB cable to a power bank (\*power bank is not included on export model.) or power outlet.



Press operating button of power bank and start LED therapy.





## Recommended Use



Those who want economical and convenience skin care at home



Those who want synergy effect with cosmetics and mask pack



Those who want similar treatment effect to professional skin care shop



Those who have skin concerns like acne, freckle and wrinkle

## Specification

Product	CHOM CHOM LED Mask 432 LED (standard model)
Power	5V/2A (power bank 10,000 ~ 15,000mAH)
Size	180 x 249 x 108 (mm)
Weight	284g
Certification	KC, CE, FCC, ROHS, FDA(2020)
Manufacturer(exporter)	IK MEDICO Co.
Origin	Made in Korea
Contact(whatsapp)	info@ikmedico.com / +82-10-9261-0252
Composition	LED Beauty Mask(connected USB cable), 2 gel pads, manual, alcohol swaps, product pouch, strap



# Clinical Data



Purpose	Test of improvement of skin density, moisturizing and brightness	
Product	CHOM CHOM LED mask with peptide cream	
Period	17. Nov. 2018 ~ 13. Dec. 2018	
Object	20 women over 25 ages	
Testing method	Sample test	After applying peptide cream on face at night, next applying CHOM CHOM LED mask for 20 minutes.
	Evaluation method	<p>Evaluated according to standard testing procedure by Korea Institute of Dermatological Sciences</p> <p>1. Testing apparatus</p> <p>1) DUB-Skin Scanner for skin density</p> <p>2) Epsilon E100 for skin moisturizing</p> <p>3) Spectrophotometer and JANUS-1 for skin brightness</p> <p>2. Skin reaction evaluation</p> <p>3. Result survey</p>

## 1. DUB-Skin Scanner for skin density

Skin density was improved 5.39% for 2 weeks than before.



< Skin density change >

	Before	2 weeks after
Average	31.20	32.88
Standard deviation	4.63	4.62

< Improvement rate of skin density change >

	2 weeks after
Improvement rate	5.39%

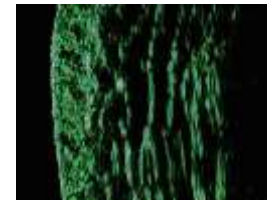
Test results



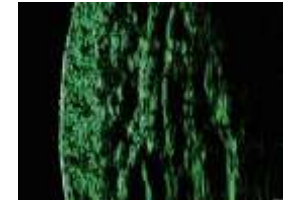
Before



2 weeks after



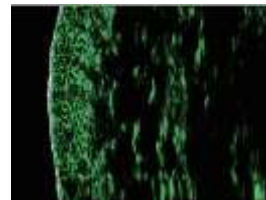
Before



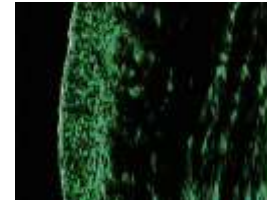
2 weeks after



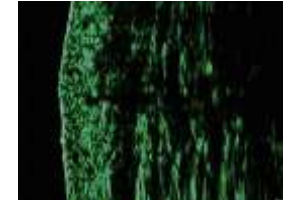
Before



2 weeks after



Before



2 weeks after

Testing area : Left crow's feet 3cm

## 2. Epsilon E100 for skin moisturizing

Skin moisturizing was improved 62.90% after using the product directly and improved 28.62% after using for 2 weeks.



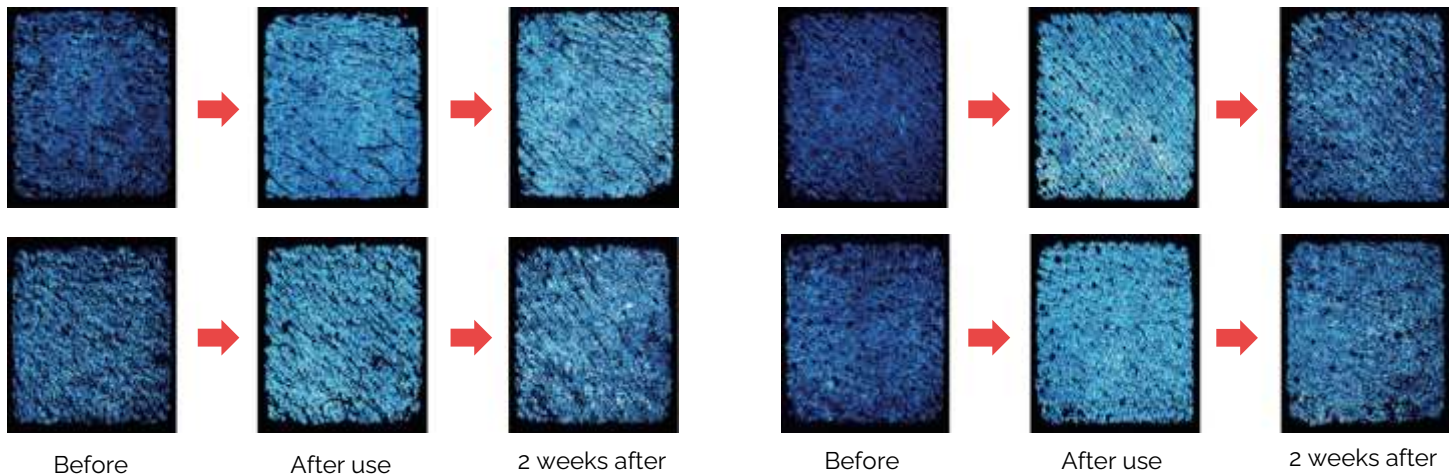
< Skin moisturizing change >

	Before	After use	2 weeks after
Average	22.52	36.69	28.97
Standard deviation	4.59	4.90	5.40

< Improvement rate of skin moisturizing change >

	After use	2 weeks after
Improvement rate	62.90%	28.62%

Test results



Testing area : Right cheek

3. Spectrophotometer and JANUS-1 for skin brightness  
 Skin was brighter 0.55% after using 2 weeks than before.



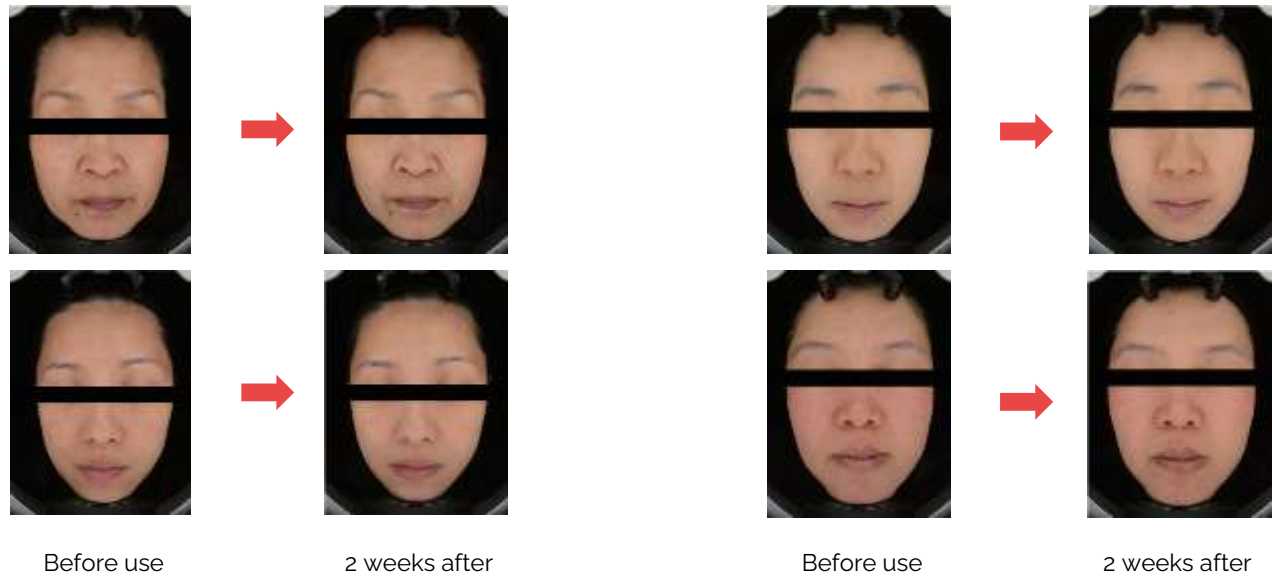
< Skin brightness change >

	Before	After 1 Use	2 Weeks after
Average	61.69	61.88	62.02
Standard deviation	1.56	1.46	1.42

< Improvement rate of skin brightness change >

	2 weeks after
Improvement rate	0.55%

Test results



Before use

2 weeks after

Before use

2 weeks after



# Clinical Data

Test results	<p>4. Skin reaction evaluation There were no allergic contact dermatitis, irritant contact dermatitis and any other skin troubles on object person after finishing test.</p> <p>5. Result survey Additionally asked to object if they have any skin troubles and the answers are same as below.</p> <table border="1" data-bbox="591 508 1325 776"><thead><tr><th></th><th>2 weeks after</th><th></th><th>2 weeks after</th></tr></thead><tbody><tr><td>Erythema</td><td>0</td><td>Pain</td><td>0</td></tr><tr><td>Edema</td><td>0</td><td>Heat</td><td>0</td></tr><tr><td>Desquamation</td><td>0</td><td>Stiff</td><td>0</td></tr><tr><td>Itch</td><td>0</td><td>Tingle</td><td>0</td></tr></tbody></table>		2 weeks after		2 weeks after	Erythema	0	Pain	0	Edema	0	Heat	0	Desquamation	0	Stiff	0	Itch	0	Tingle	0
	2 weeks after		2 weeks after																		
Erythema	0	Pain	0																		
Edema	0	Heat	0																		
Desquamation	0	Stiff	0																		
Itch	0	Tingle	0																		
Final conclusion	CHOM CHOM LED mask with peptide cream helps to improve skin density, moisturizing and brightness.																				

# Articles of LED light therapy

Source	Title & Link	Author
<p>NCBI (The National Center for Biotechnology Information advances science and health)</p>	<p>Is light-emitting diode phototherapy (LED-LLLT) really effective? <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3799034/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3799034/</a></p>	<p>Won-Serk Kim(Department of Dermatology, Kangbuk Samsung Hospital, Sungkyunkwan University School of Medicine, Seoul, Korea) R Glen Calderhead(Korean Institute for Photomedicine and Photosurgery Research, Goyang, South Korea)</p>
	<p>The impact of wavelength of LED light-therapy on endothelial cells, 2017 Sep. <a href="https://www.ncbi.nlm.nih.gov/pubmed/28878330">https://www.ncbi.nlm.nih.gov/pubmed/28878330</a></p>	<p>Sabrina Rohringer, Wolfgang Holnthoner, Sidrah Chaudary, Paul Slezak, Eleni Priglinger, Martin Strassl, Karoline Pill, Severin Mühleder, Heinz Redl, Peter Dungal</p>
	<p>Effect of red and near infrared wavelength on low-level laser (light) therapy induced healing of partial-thickness dermal abrasion in mice, 2014 Jan. <a href="https://www.ncbi.nlm.nih.gov/pubmed/23619627">https://www.ncbi.nlm.nih.gov/pubmed/23619627</a></p>	<p>Gupta A, Dai T, Hamblin MR.</p>
	<p>Low-level laser (light) therapy (LLLT) in skin: stimulating, healing, restoring, 2013 Mar. <a href="https://www.ncbi.nlm.nih.gov/pubmed/24049929">https://www.ncbi.nlm.nih.gov/pubmed/24049929</a></p>	<p>Avci P, Gupta A, Sadasivam M, Vecchio D, Pam Z, Pam N, Hamblin MR.</p>
<p>NASA/Marshall Space Flight Center</p>	<p>NASA Space Technology Shines Light On Healing, 2000, Dec. <a href="https://www.sciencedaily.com/releases/2000/12/001219195848.htm">https://www.sciencedaily.com/releases/2000/12/001219195848.htm</a></p>	<p>Dr.Whelan</p>

# CHOM CHOM LED mask in Worldwide



Partners in Worldwide



Coverbrands

SILKEMYK

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**SKINSECRET**

## Customizing ODM service offer Make your own LED mask brand

Do you want to have LED Beauty Mask with your own brand, and want to impress your brand's reputation, identity and values to customers?

We provide customizing ODM service. You can put your own logo, brand and identity on the product, box and manual. We have many experiences of successful cases for customizing ODM service offer in North Europe & Asia countries.

Now consider making your own LED mask with your brand.





Thanks for your attention

Contact : Bruce Kang

Company : IK MEDICO Co.

Tel(Whatsapp) : +82-10-9261-0252

Address : 8, Suseong-ro, Gwonseon-gu,

Suwon-si, Gyeonggi-do, 16426, Korea

[www.ikmedico.com](http://www.ikmedico.com)

[www.ikmedico.co.kr](http://www.ikmedico.co.kr)

[www.pherapy.co.kr](http://www.pherapy.co.kr)

[info@ikmedico.com](mailto:info@ikmedico.com)

