

OMEGA PDT

Low Level Led Therapy **Professional**

Skin total care effect through synergy of 1,710 LEDs and IR lamps.



ASTOMED
FINLAND

5 LED	SMD LED	IR 830nm
5 in 1	380 _{ea} x 4 types	190 _{ea}

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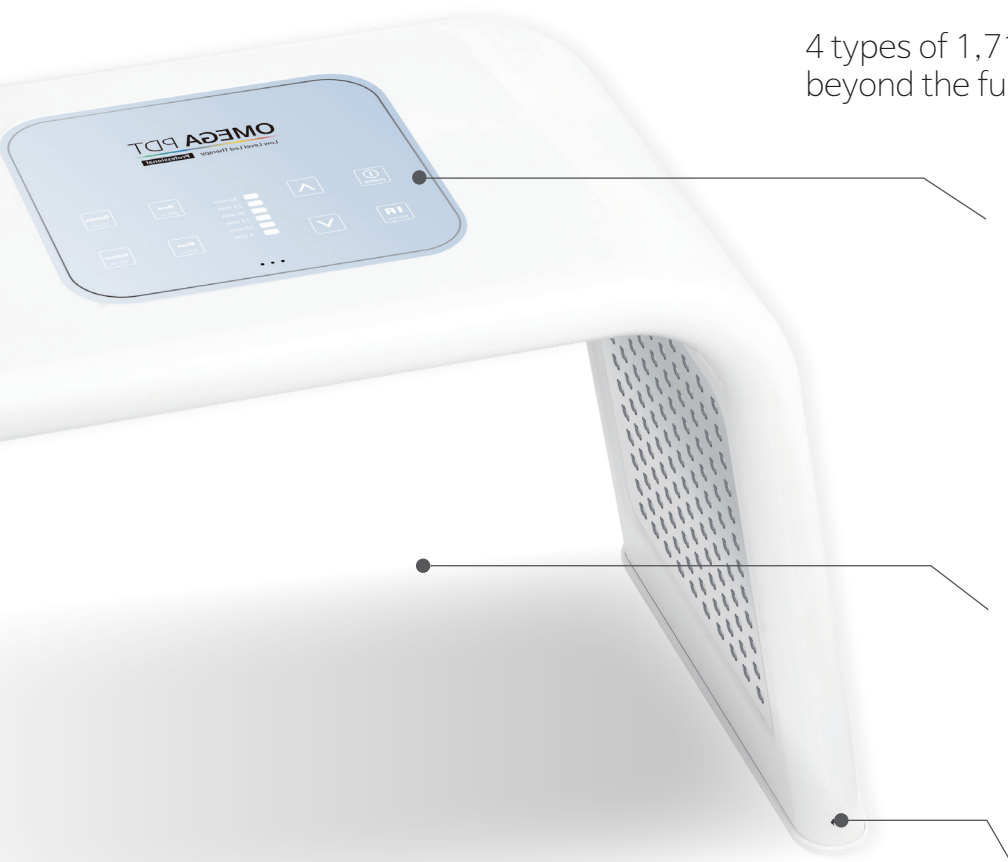
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The 'best' complex light source device is Omega PDT

Higher output **Stronger effect** **various function** **solid body**

4 types of 1,710 premium LEDs and IR lamps added to solve a variety of skin concerns beyond the function of skincare.

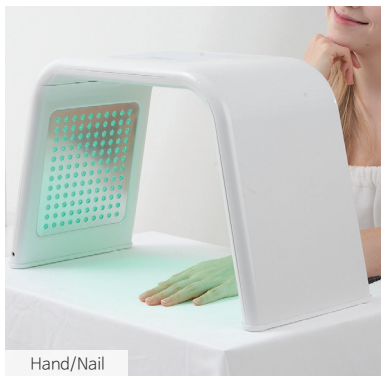
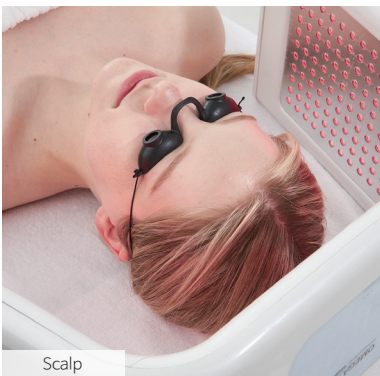
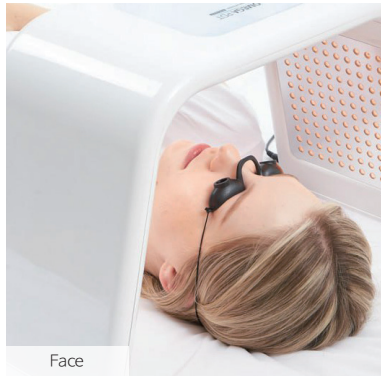


✓ CHECK POINT

01. 5 wavelengths (423nm, 532nm, 583nm, 640nm, IR)
various rotation wavelengths management available
(It was available BLUE+RED in the past, RED+GREEN, RED+YELLOW wavelengths available)
02. By increasing the dome size, it can be used on the face and body simultaneously.
03. Add the volume setting and basic management time setting functions for your convenience.
04. Bi-directional power outlet that can be connected in any direction

Weight 2.8kg, Maximum Output 70W, size 630*297*355mm, Standard Voltage DC 18V, 5.0A KC safety certification





Face, Body All Care

Care for both face and body at once with Omega PDT!

- Face / Body application part

Face

Scalp

Upper body: Back / Chest / Arm / Abdomen

Lower body: Y zone / thighs / calf

Hand/Nail

Foot/ Toenail

- Indication

Back acne

Keratosis Pilaris

Body sliming management

Problematic nail/toenail

Omega PDT features and advantages

✓ Point 1

In-depth care from the outer skin to inner skin with near-infrared wavelength
Stimulates blood vessels in the subcutaneous tissue to activate cell regeneration and metabolism.

✓ Point 3

Provides enhanced convenience with voice guidance in 3 languages, basic treatment time setting, and volume control function.

✓ Point 5

Safe skin care without pain and side effects, which are disadvantages of general treatment.

✓ Point 2

Increasing blood supply, muscle relaxation, pain relief, fatigue recovery, stress relief, etc.

✓ Point 4

A total care device that can be used for each part that solves complex skin problems from the face to the scalp.

✓ Point 6

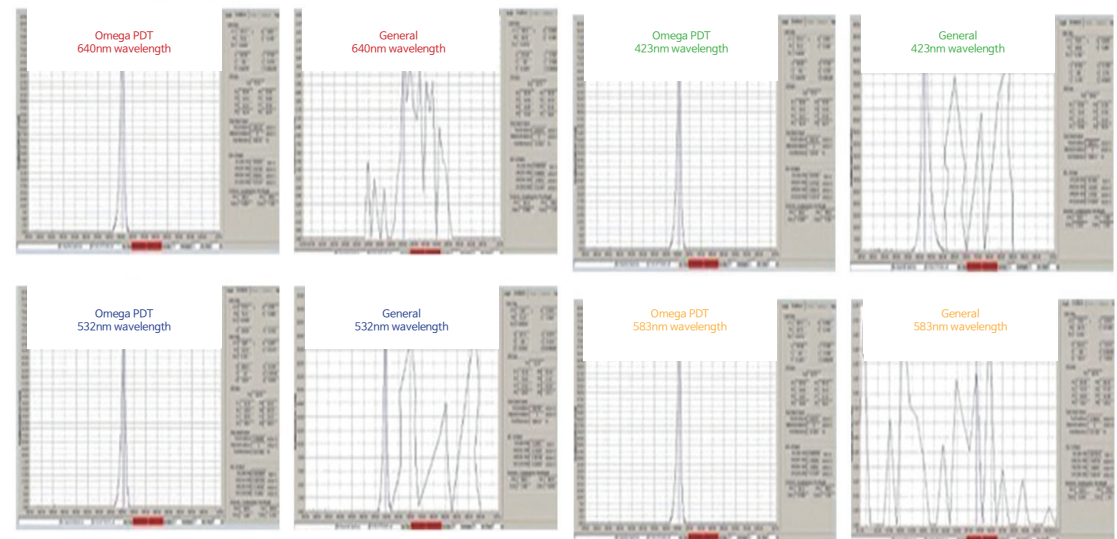
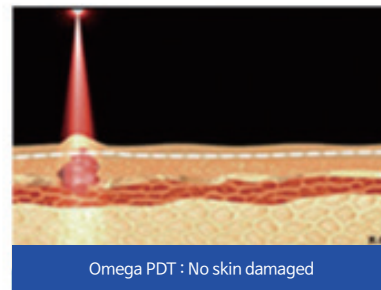
Effects that depend on LED quality! Powerful and stable LED and IR wavelength using 1,710 special infrared SMD LED materials.

LED technology unique to Omega PDT

Since the LED light source has a narrow wavelength and does not emit harmful ultraviolet rays and unnecessary infrared rays, there are few side effects. In addition, it has the advantage of not damaging tissues or eyes due to its low energy, but products using low-quality LED lamps or RGB lamps cannot realize normal LED wavelengths and may destroy or damage skin tissue.

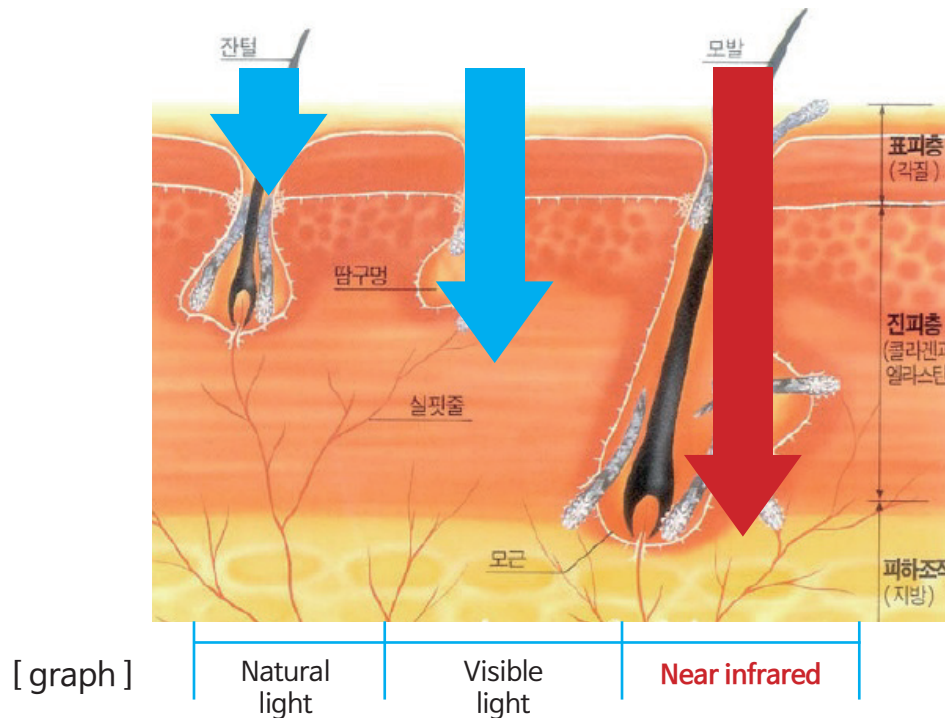
Light wave measurement graph comparison

Light wave measurement graph The wavelength of omega PDT light is stable, but the wavelength of general products is not constant and may cause skin damage.



Omega PDT's LED uses a special high-brightness infrared SMD LED element to realize a strong and stable LED wavelength.

What is IR?



Near-infrared wavelengths reach
the subcutaneous tissue

As the infrared light is close to solar radiation, IR has the wavelength of $0.8 \sim 2.5\mu\text{m}$ (730~2500nm).






This short-wavelength IR is delivered to an object through thermal waves (radiation) with no air heating.

As shown in the table, the wavelengths are transferred to the subcutaneous tissue as heat, which facilitates blood circulation, Synthesizing collagen and activating inactivated cells to care for damaged skin through selective regeneration of destruction.

IR successfully accelerates healing and controls secondary infection in wounds of different etiologies and the cause of other diseases.

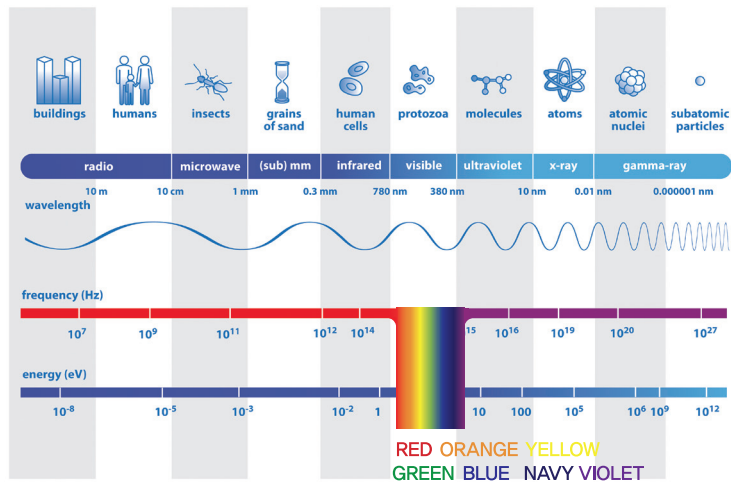
The high quality LED of Omega PDT

Effectiveness will be different depending on 'number' of LED lamps and 'quality' of SMD

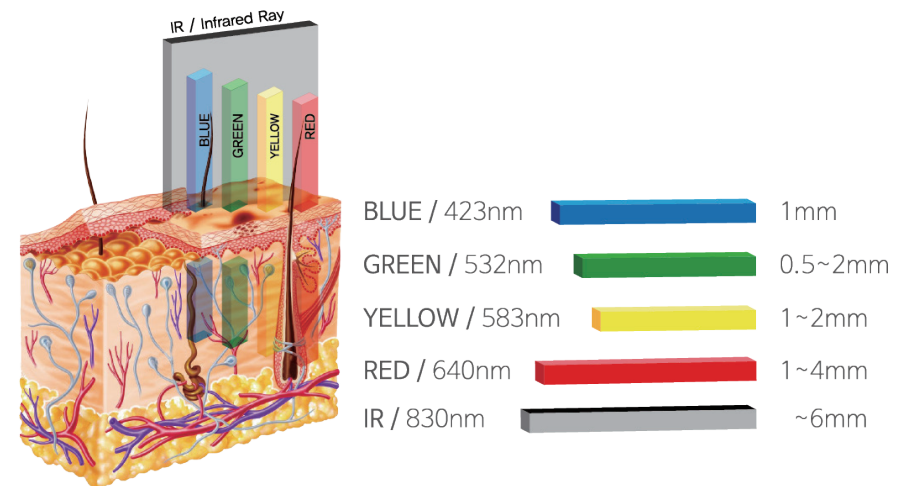
	SMD LED (Light Emitting Diode)				IR (Infrared Ray)
Wavelengths	640nm	423nm	532nm	583nm	830nm
Lights Color					 Invisible
LEDs	380ea	380ea	380ea	380ea	190ea

Omega PDT wavelength

- Electromagnetic Spectrum



- The wavelength of Omega PDT (Infrared light/Visible light)



Omega PDT wavelength

IR wavelengths are added for powerful and can be managed in various treatment

IR



	NEW MODEL
	OMEGA PDT
Output intensity	15 mw/cm ²
Output wavelength	830 +/- 5nm
Standard dose	12J /cm ²
Treatment time	1~10 minutes
Dose range	1~56J/cm ²
Band width	20 nm +/-5nm

Omega PDT wavelength

RED



	<small>NEW MODEL</small> OMEGA PDT
Output intensity	42 mw/cm ²
Output wavelength	640 +/- 5nm
Standard dose	28J /cm ²
Treatment time	5~60 minutes
Dose range	1~186J/cm ²
Band width	20nm +/-5nm

GREEN



	<small>NEW MODEL</small> OMEGA PDT
Output intensity	15 mw/cm ²
Output wavelength	532 +/- 5nm
Standard dose	9J /cm ²
Treatment time	5~60 minutes
Dose range	1~52J/cm ²
Band width	20 nm +/-5nm

BLUE



Output intensity	46 mw/cm ²
Output wavelength	423 +/- 5nm
Standard dose	28J /cm ²
Treatment time	5~60 minutes
Dose range	1~152J/cm ²
Band width	20 nm +/-5nm

YELLOW



Output intensity	11 mw/cm ²
Output wavelength	583 +/- 5nm
Standard dose	7J /cm ²
Treatment time	5~60 minutes
Dose range	1~39J/cm ²
Band width	20 nm +/-5nm

Omega PDT Effect

By adding IR (near infrared wavelength) to the 4 wavelengths of omega light, It transmits light to the subcutaneous tissue.



• RED 640mm

- Skin cell regeneration
- Skin soothing
- Pain relief



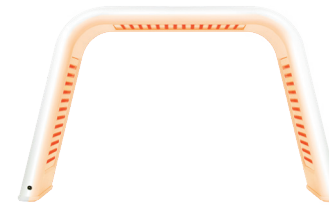
• BLUE 423mm

- Acne bacteria sterilization
- Sebaceous glands
- Prevent scar infection



• GREEN 532mm

- Soothing effect
- Improve sensitive skin
- Acne scar recovery



• YELLOW 583mm

- Blushed skin/Red spot
- Redness relief
- Pigmented lesions



• IR(Infrared Ray)

- Metabolism Activation
- Emission waste
- Collagen&elastin production

Skin regeneration Treatment cases

• Case 1



Before

After

Gender	Male
Age group	52
Symptom	Secondary infection and ulcerative tissue necrosis after filler treatment
Treatment period	5 weeks
Number of treatment	29 times
Wavelength of treatment	IR

• Case 2



Before

After

Gender	Female
Age group	54
Symptom	Herpes symptoms and bacterial infection due to illegal semi-permanent lip treatment
Treatment period	3 weeks
Number of treatment	21 times
Wavelength of treatment	IR

• Case 3



Before

After

Gender	Female
Age group	25
Symptom	Deep wound caused by a pet bite accident
Treatment period	18 days
Number of treatment	13 times
Wavelength of treatment	IR

* This clinical result is based on our own clinical test and is only available for internal training purposes.
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Skin regeneration Treatment cases

• Case 4

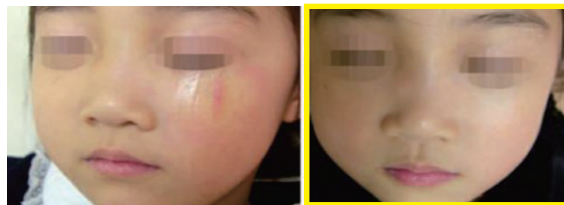


Before

After

Gender	Boy child
Age group	7
Symptom	Two abrasions on the face
Treatment period	7 days
Number of treatment	7 times
Wavelength of treatment	IR

• Case 5



Before

After

Gender	Girl child
Age group	7
Symptom	facial abrasions and minor bruises
Treatment period	8 weeks
Number of treatment	16 times
Wavelength of treatment	IR

• Case 6



Before

After

Gender	Female
Age group	30s
Symptom	Sensitive and damaged skin due to excessive peeling
Treatment period	7 days
Number of treatment	6 times
Wavelength of treatment	RED

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Acne skin Treatment cases

• Case 1



Before

After

Gender	Male
Age group	10s
Symptom	Acneiform skin
Treatment period	7 days
Number of treatment	4 times
Wavelength of treatment	BLUE+RED+IR

• Case 2



Before

After

Gender	Female
Age group	10s
Symptom	Acne & Sensitive Skin
Treatment period	6 days
Number of treatment	3 times
Wavelength of treatment	BLUE+RED+IR

• Case 3



Before

After

Gender	Female
Age group	20s
Symptom	Acneiform skin
Treatment period	6 days
Number of treatment	3 times
Wavelength of treatment	BLUE+RED+IR

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Acne skin Treatment cases

• Case 4



Before

After

Gender	Male
Age group	20s
Symptom	Acne & Sensitive Skin
Treatment period	2 weeks
Number of treatment	6 times
Wavelength of treatment	BLUE+RED+IR

• Case 5



Before

After

Gender	Female
Age group	20s
Symptom	Acne & Sensitive Skin
Treatment period	2 weeks
Number of treatment	6 times
Wavelength of treatment	BLUE+RED+IR

• Case 6



Before

After

Gender	Male
Age group	10s
Symptom	Acneiform skin
Treatment period	2 weeks
Number of treatment	5 times
Wavelength of treatment	BLUE+RED+IR

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Acne skin Treatment cases

• Case 7



Before

After

Gender	Female
Age group	20s
Symptom	Acneiform skin
Treatment period	2 weeks
Number of treatment	7 times
Wavelength of treatment	BLUE+RED+IR

• Case 8

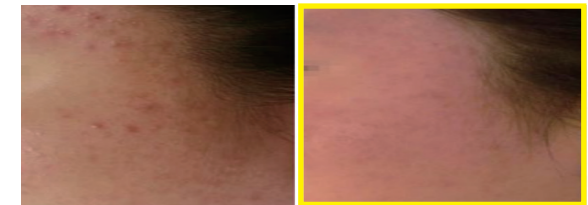


Before

After

Gender	Female
Age group	20s
Symptom	Acneiform skin
Treatment period	8 days
Number of treatment	4 times
Wavelength of treatment	BLUE+RED+IR

• Case 9



Before

After

Gender	male
Age group	30s
Symptom	Acne & Sensitive Skin
Treatment period	7 days
Number of treatment	3 times
Wavelength of treatment	BLUE+RED+IR

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Back acne, Keratosis pilaris Treatment cases

• Case 1

**Before****After**

Gender	Female
Age group	20s
Symptom	Back acne
Treatment period	2 weeks
Number of treatment	7 times
Wavelength of treatment	BLUE+RED+IR

• Case 2

**Before****After**

Gender	Female
Age group	20s
Symptom	Keratosis pilaris
Treatment period	5 days
Number of treatment	2 times
Wavelength of treatment	BLUE+GREEN+IR

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Treatment Method (Type1)

1. Trouble Skin Care (Acne)

Total time: 50mins

3-5mins

5mins

15mins

20mins

5mins

CLEANSING



DEEP CLEAN

Whirlwind sound pressure technology induces dead skin cells to fall off and removes external wastes.
(acarus folliculorum/
heavy metals)



SKIN CARE

(ALA-MASK 13)

Attach a mask pack to the face, which containing 5-aminolevulinic acid - a photosensitizer



PDT (Light source charging)

A method of enhancing skin's own resilience by irradiating LED light

+



FINISHING TREAT

Bio-gel, a gel-type light source permeable mask with a network structure, that perfectly soothes damaged skin and shrinks pores through self-cooling

- ① ESSENCE
- ② MOISTURE CREAM
- ③ SUNBLOCK

Treatment Method (Type2)

2. Trouble Skin Care (Aging/Quick-drying acne)

Total time: 50mins



Treatment Method (Type3)

3. Trouble Skin Care (Sensitive skin acne)

Total time: 50mins



Treatment Method (Type4)

4. Trouble Skin Care (Chronic/Acne scars)

Total time: 50mins



Treatment Method (Type5)

5. Trouble Skin Care (Seborrheica/Pore)

Total time: 60mins



* In case of pustular acne, acne pigmentation, and acne scars, spicule treatment shall be performed instead of H.DIA procedure.

Treatment Method (Type6)

6. Trouble Skin Care (Back acne)

Total time: 60mins

3-5mins

5mins

10-15mins

15mins

15mins

5mins

CLEANSING

① ESSENCE

② MOISTURE CREAM



DEEP CLEAN

Whirlwind sound pressure technology induces dead skin cells to fall off and removes external wastes.
(acarus folliculorum/
heavy metals)



H.DIA

A method of enhancing self-resilience of the inner wall of pores by polishing the pore entrance with micro diamond technology



SKIN CARE (Omega Green)

A special formula that increases the amount of light source activity and strengthens the skin from the dermis stimulated by microneedles, enables simultaneous storage of energy sources



PDT

(Light source charging)
A method of enhancing skin's own resilience by irradiating LED light