

DUV-COMBO

DIGITAL PHOTOTHERAPY SYSTEM



Innovation · High Power · Reliability

DUV-COMBO, developed by CHOYANG MEDICS, is an LED-based UV phototherapy system with two dedicated handpieces: UVB and UVA1. By integrating two UV wavelengths into a single platform, DUV-COMBO provides controlled and targeted UV irradiation in a compact system designed for professional dermatology practice.

FDA 510(k) Cleared

MFDS Certified

ISO 13485 Certified



DUV-COMBO

DIGITAL PHOTOTHERAPY SYSTEM

BENEFITS OF DUV-COMBO

DIGITAL PHOTOTHERAPY SYSTEM



● Dedicated UVB and UVA1 Handpieces

Dedicated UVB and UVA1 handpieces provide separate wavelength channels for targeted phototherapy.

● High Irradiance

Irradiance specification (UVB: 100 mW/cm² at 2 cm / UVA1: 200 mW/cm² at 2 cm)

● Effective Irradiation Treatment Area

Effective irradiation area: 42 cm² (6 × 7 cm)

● Built-in Output Calibration

Integrated UVA1 and UVB sensors support output measurement and calibration.

● Built-in UVB MED Test Mode

Six preset exposure levels support determination of the Minimum Erythema Dose (MED).

● No Routine UV Lamp Replacement

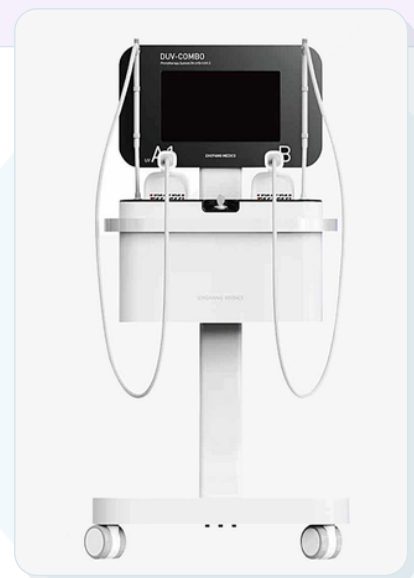
Long-life LED light source requires no routine UV lamp replacement.

● Designed for Clinical Use

Designed with integrated safety and monitoring functions.

● Output Monitoring

Built-in sensors enable UV output measurement and monitoring.



DUV-COMBO

DIGITAL PHOTOTHERAPY SYSTEM

- Psoriasis
- Vitiligo
- Atopic dermatitis
- Seborrheic dermatitis
- Leukoderma (UVB Channel)



Psoriasis



Vitiligo



Atopic dermatitis



Seborrheic dermatitis

What is UVA1 Therapy?

UVA1 is the long-wavelength region of ultraviolet A (UVA) radiation, generally defined as 340-400 nm. Due to its longer wavelength, UVA1 penetrates more deeply into the skin than UVB, reaching the dermal layers of the skin.

UVA1 exposure is associated with various photochemical and cellular responses. One of its important photobiological characteristics is the generation of reactive oxygen species (ROS), which can influence cellular signaling and biological activity within the skin. UVA1 can also interact with various cells in the dermis, including immune cells, inflammatory cells, and fibroblasts. These interactions are associated with modulation of inflammatory and immune responses and changes in cellular activity within the dermal tissue.

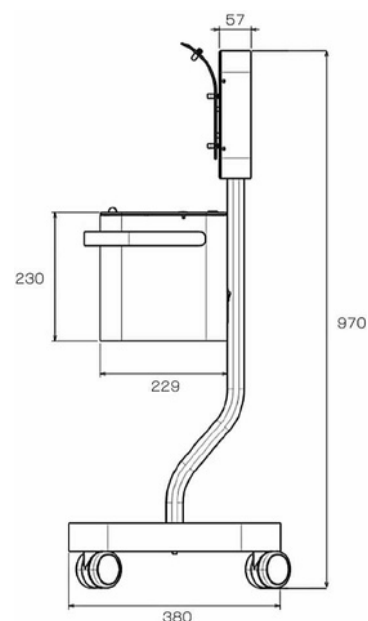
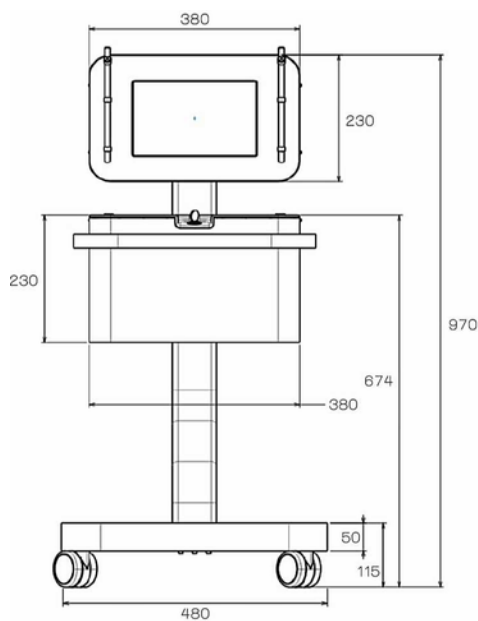
Because of these distinct photobiological characteristics and its deeper penetration into the skin, UVA1 has been studied and used as a phototherapy modality in dermatology.

As with all ultraviolet phototherapy, appropriate treatment parameters and UV protection should be considered, and treatment should be performed under the supervision of a qualified healthcare professional.

Technical Specifications of DUV-COMBO

DIGITAL PHOTOTHERAPY SYSTEM

Light Source	Light-emitting Diode (LED)
Emission Range	UVB: 300-320 nm (peak 308.8 nm), UVA1: 360-390 nm (peak 371.3 nm)
Maximum Irradiance	UVB: 100 mW/cm ² at 2 cm, UVA1: 200 mW/cm ² at 2 cm
Dosage (Range)	UVB: 0.05-3.4 J/cm ² , UVA1: 0.1-3.4 J/cm ²
Maximum Treatment Area	42 cm ² (6 × 7 cm)
Display	10.2-inch Color Touch Screen
Rated Input	100-240 V, 50/60 Hz
Power Consumption	147 VA
Dimensions	Main Unit: 480 mm × 380 mm × 970 mm Handpiece: 264 mm × 88 mm × 124 mm
Weight	Main Unit: 21 kg Handpiece: 1 kg



Choyang Medics Co., Ltd.
B-1004, Keumkang Pentierum IT Tower
215 Galmachi-ro, Jungwon-gu, Seongnam-si
Gyeonggi-do, South Korea

Tel. +82-31-737-4737
Fax. +82-31-736-2998

Email. choyangmedics@choyangmedics.com
Main website. choyangmedics.com
International website. choyangmedics-int.com