

# Glotech™ Mask Pro

## INSTRUCTION MANUAL



LED  
**ESTHETICS**

## TABLE OF CONTENTS

1. ABOUT THE GLOTECH™ MASK PRO	02
2. HOW TO USE THE DEVICE	02
2.1 INDICATIONS FOR USE	02
2.2 TREATMENT MODES	02
2.3 OPERATION INSTRUCTIONS	02
2.4 CHARGING	03
2.5 CARE AND STORING	04
2.6 CLEANING	04
3. PRODUCT INFORMATION	04
3.1 DEVICE SPECIFICATIONS	04
3.2 DEVICE ACCESSORIES	05
3.3 ADVERSE REACTION	05
3.4 CONTRAINDICATIONS	05
3.5 DISCLAIMER	06
3.6 WARNINGS & PRECAUTIONS	06
3.7 TRAVEL AND INTERNATIONAL USE	07
4. POTENTIAL RISKS	07
5. LIGHT SENSITIVITY TEST	07
6. TROUBLESHOOTING	08
7. DISPOSAL	09
8. WARRANTY	09
9. CONTACT INFORMATION	09
10. SAFETY & EMC	10

## 1. ABOUT THE GLOTECH™ MASK PRO

Glotech™ Mask Pro combines two treatments in one device. Red (630nm) and Infrared light (830nm) treat signs of aging and wrinkles. Blue light (415nm) treats mild to moderate acne vulgaris of the face.

## 2. HOW TO USE THE DEVICE

### 2.1 INDICATIONS FOR USE

The Glotech™ Mask Pro produces blue and red light in the visible spectrum and near infrared light (NIR) in the invisible spectrum (Blue: 415nm, Red: 630 ±5nm, NIR: 830nm). The device works by emitting the specified wavelengths into the skin in order to improve the appearance of wrinkles or to target bacteria that can cause acne vulgaris.

### 2.2 TREATMENT MODES

Anti-Aging: Red Light (630 ±5nm) and Near Infrared (830nm)

Anti-Acne: Blue Light (415nm) and Red Light (630 ±5nm)

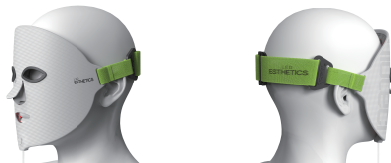
### 2.3 OPERATION INSTRUCTIONS

#### 1. CLEAN YOUR SKIN AND APPLY SERUM

Thoroughly cleanse your skin to remove any cosmetics and apply LED Esthetics serum or Hydrogel. Avoid using other topical serums or creams that may contain elements that may affect light absorption and lead to a decreased or in-effective treatment.

#### 2. INSTALL EYE PROTECTION AND STRAPS

Insert silicone eye protection into the eye openings on the mask. Connect the adjustable velcro straps to the slits on either side of the mask. If desired, use the extra strap to create additional support at the back of the head.



GLOTECH™ MASK PRO

### 3. CONNECT MASK TO CONTROLLER

Ensure the controller is fully charged, remove controller from charging cable and connect controller to the mask via the mask's built-in cable.

### 4. START A TREATMENT

Turn on the mask by long pressing (about 2 seconds) the controller's power button. The default mode is Anti-Aging (Red and Near Infrared).

Short press the power button to change the treatment mode to Anti-Acne. The mode indicator above "Anti-Acne" will light up.

The device will automatically turn off after the full treatment time of 10 minutes. If desired, you may choose to initiate a second treatment with other treatment mode.

### 5. CLEAN AND STORE THE MASK

Clean and store the mask according to the instructions below.

#### TREATMENT PROTOCOL

Anti-Acne: 4-5 times per week for 6 weeks

Anti-Aging: 5-7 times per week for 6 weeks

After following the treatment protocol, continue with maintenance treatments 2-4 times per week, as required based upon desired results.

### 2.4 CHARGING

Charge your remote fully for 4 hours before your first use. Only use a 5V adapter or computer USB port (avoid fast chargers as they can damage the battery).

To charge the remote insert the USB-C (small end) into the remote. Insert the USB-A (larger end) into a 5V USB power supply. When the controller is charging, the LED indicator on the controller flashes, and when the controller is fully charged, the indicator will be steady green.

Before charging, make sure that the plug and socket are completely dry. Failure to do so may result in electric shock, short circuit, or fire.

Note: Always unplug the remote from the charging cable before use. It will not work while being charged.

GLOTECH™ MASK PRO

## 2.5 CARE AND STORAGE

The lifetime of the Lithium battery can be maximized by allowing it to fully charge and then fully discharge during regular use. Avoid charging longer or more frequently than necessary.

Store the device at room temperature in dry conditions.

Store the device in the supplied packaging. Make sure the device will not bend, stretch or crush while being stored or when travelled with.

Avoid storing the device in dusty conditions, in direct sunlight or in damp and humid conditions.

This device contains no serviceable parts.

Before each use, with the device switched off, clean the Device following the cleaning instructions.

### IMPORTANT

The product has a lifecycle of approximately two years under normal use. Following the treatment protocol for two years is considered normal use. The device must be handled with care.

## 2.6 CLEANING

Clean the device with a water-based wipe or lightly damp clean cloth. Stubborn stains can be removed by wiping gently with 70% alcohol.

DO NOT use any other cleansing products or submerge Device in liquid.

DO NOT clean the device while it is turned on.

DO NOT clean the device while charging.

## 3. PRODUCT INFORMATION

### 3.1 SPECIFICATIONS

LED WAVELENGTHS	415nm, 630nm ±5nm, 830nm
OUTPUT POWER DENSITY	Blue/Red (anti-acne) 44mw/cm <sup>2</sup> Red/NIR (anti-aging) 30 mw/cm <sup>2</sup>
LED BULBS	66 Dual-core LEDs
OPERATING TEMPERATURE	-10°C to 35°C   14°F to 95°F

STORING / TRANSPORT TEMPERATURE	-20°C to 60°C   -4°F to 14-°F
OPERATING HUMIDITY	30% to 80% without condensation
STORAGE / TRANSPORT HUMIDITY	30% to 90% without condensation
CHARGING SUPPLY	5V=2A
CHARGING PORT	USB-C
CHARGING CABLE	USB-C to USB-A
CHARGING CABLE LENGTH	1.2 meter / 3.937 feet
BATTERY	3.7V, 2600mAh Lithium Battery

### 3.2 DEVICE ACCESSORIES

- Glotech™ Mask Pro
- Removeable Eye Protection
- Controller
- USB Charging Cable
- Adjustable Straps
- User Manual

### 3.3 ADVERSE REACTION

If you have any adverse reaction, such as discomfort, skin discoloration, skin irritation or other concerns, from using this Device, stop using it immediately and consult your health professional. Skin irritation, bruising, contact burns, dizziness, nausea, and headaches are rare but possible side effects. Immediately stop using the device and contact your General Practitioner.

### 3.4 CONTRAINDICATIONS

DO NOT use the device if you have active cancer or cancerous lesion.

DO NOT use the device if you are pregnant, planning on becoming pregnant, or breastfeeding, without first consulting your doctor.

DO NOT use the device on people under the age of 21.

DO NOT use the device if you have a known allergic reaction to silicone. When in doubt of allergies contact your General Practitioner before using.

DO NOT use the device if you suffer from any photosensitive disorder (sensitization to light) or are taking any medication or drugs that can cause photosensitivity. If you are unsure, contact your health professional.

DO NOT use the device if you have a medical history of seizures or epilepsy triggered by light.

Consult your doctor before using the device if you have a fever, a severe circulatory disorder, or desensitized areas.

If taking any medications, consult your doctor prior to using the device.

Note: For reasons of hygiene, do not share your device with anyone else.

### 3.5 DISCLAIMER

DO NOT use the Device to treat any other conditions other than those indicated in the Indications for Use statement in Chapter "How to use the device". The device is not intended for use in the diagnosis of disease or other conditions or in the cure, mitigation, treatment or prevention of disease, nor is it intended to affect the structure or function of the body.

### 3.6 WARNINGS & PRECAUTIONS

STOP using the device and consult your General Practitioner if you experience an adverse reaction or pain from using the device.

STOP using the device if you experience symptoms of hypotension (dizziness or light-headedness) while using the device.

STOP using the device if it is overheating or your skin feels hot. Turn off the device immediately.

DO NOT use the device to treat moles, warts, open sores, cancerous lesions, or other skin conditions.

DO NOT use the device over any open wounds or bacterial infections.

DO NOT shine the light from the LEDs directly into your eyes or someone else's eyes.

DO NOT use the device outdoors or place in direct sunlight to prevent damage to the product.

DO NOT put pressure, heavy objects or sit on the device. This will break it.

DO NOT use or store the device near hot surfaces.

DO NOT submerge the device in water or charge the device when it might be exposed to water.

DO NOT attempt to modify, repair or take apart the device in any way. The device contains no serviceable parts and batteries that are non-replaceable.

DO NOT use the device if it is damaged or not working properly.

DO NOT use solvents or abrasive cleaners on the device.

DO NOT use the device in any other way than specified in this manual. It will void your warranty if you do not operate the device in accordance with the instructions in the manual.

DO NOT use the device with any topical serums or creams other than specified by LED Esthetics, particularly those containing Vitamin A.

DO NOT scratch or damage the light-emitting surface.

### 3.7 TRAVEL AND INTERNATIONAL USE

The device's lightweight design and rechargeable battery make it a perfect travel companion. Here are some travel tips for you:

If you are travelling to a different region from where you bought the Device, please ensure that the device is only supplied with a 5V DC Low Voltage when charging.

Confirm with the steward that the Device can be carried and/or used on the airplane prior to flight.

#### 4. POTENTIAL RISKS

Immediately after treatment skin may appear red. Skin should return to normal within 1-2 hours. Temporary headaches may appear after the light treatment. Consult your doctor if the headaches persist.

#### 5. LIGHT SENSITIVITY TEST

We highly recommend users perform a light sensitivity test before their first use of the device.

1. Place the device on the inner forearm
2. Turn on the device to start a treatment
3. Wait for 3 minutes to complete a treatment.
4. If your skin feels hot or uncomfortable during the treatment, immediately stop! You might be sensitive to light.
5. The device will automatically turn off after the treatment is done. Remove the device and wait for at least 24 hours.

Check your skin regularly over those 24 hours, if your skin appears red and/or itchy the device is unsuitable for you. In the case of light sensitivity please contact customer support.

#### 6. TROUBLESHOOTING

If the actions suggested fail to fix the problem, or the problem reoccurs, and your device is within the warranty period please return to LED Esthetics. DO NOT attempt to modify the device in any way. The device has NO parts you can repair yourself.

PROBLEM	CAUSE	SOLUTION
The device doesn't switch on.	The device is not fully charged, because the charging cable was not properly inserted into the power outlet.	Insert the charging cable properly into the power outlet.
	The device is not fully charged, because the charging cable was not properly inserted into the controller.	Insert the charging cable properly into the controller and charge the device.

	The power outlet didn't work during charging.	Try a different power outlet.
	The controller is not properly connected to the mask.	Ensure that the controller cable and mask are connected well.
	The on/off button has not been pushed for 2 full seconds.	Push the on/off button for 2 seconds straight.
The device switches off unexpectedly.	The battery level is too low.	Charge the device.

#### 7. DISPOSAL

DO NOT dispose of the device with household waste. The Device should be recycled. The controller contains a Lithium-ion battery. For protection of the environment, please safely dispose of the device following your local guidelines.

#### 8. WARRANTY

This LED mask is warranted to be free from defects in material and workmanship for 12 months from its original purchase date under normal use. This warranty extends only to the original retail purchaser with original proof of purchase and proof of registration for warranty within 30 days following original purchase date. This warranty only extends if the device is used in conjunction with authorized Device accessories. If the Device should become defective within the warranty period, contact our customer support. This warranty does not cover Devices damaged by:

- Accident, misuse, abuse, or alteration.
- Use with unauthorized accessories or use other than as instructed.
- Connecting to incorrect current and voltage.

LED Esthetics shall not be responsible for any incidental, special or consequential damages resulting from the use of this Device. All implied warranties, including but not limited to implied warranties of fitness and merchantability are limited in duration to one year from date of original purchase.

## 9. CONTACT INFORMATION

LED Esthetics  
 ledesthetics.com/contact  
 hello@ledesthetics.com

## 10. SAFETY & EMC

Guidance and manufacturer's declaration – electromagnetic emissions		
The LED Light Therapy Mask is intended for use in the electromagnetic environment specified below. The customer or the user of the LED Light Therapy Mask should assure that it is used in such an environment.		
Emissions	Compliance	Electromagnetic environment- guidance
RF emissions CISPR 11	Group 1	The LED Light Therapy Mask uses LED energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The LED Light Therapy Mask is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Pst≤1.0; PIt≤0.65; d(t) sec≤0.5; dmax≤4% dc≤3.3%	

Guidance and manufacturer's declaration – electromagnetic immunity			
The LED Light Therapy Mask is intended for use in the electromagnetic environment specified below. The customer or the user of the LED Light Therapy Mask should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2kV, ±4kV, ±8kV, ±15kV air	±8 kV contact ±2kV, ±4kV, ±8kV, ±15kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transient/burst IEC 61000-4-4	±2 kV 100 kHz repetition frequency	±2 kV 100 kHz repetition frequency	Mains power quality should be that of a HOME HEALTHCARE ENVIRONMENT
Surge IEC 61000-4-5	± 1kV Line-to-line	± 1kV Line-to-line	Mains power quality should be that of a HOME HEALTHCARE ENVIRONMENT
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % UT; 0,5 cycle (At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°)  0 % UT; 1 cycle and 70 % UT; 25/30 cycles (Single phase: at 0°)	0 % UT; 0,5 cycle (At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°)  0 % UT; 1 cycle and 70 % UT; 25/30 cycles (Single phase: at 0°)	Mains power quality should be a HOME HEALTHCARE ENVIRONMENT If the user of the LED Light Therapy Mask requires continued operation during power mains interruptions, it is recommended that the LED Light Therapy Mask be powered from an uninterruptible power supply or a battery.
	0 % UT; 250/300 cycle	0 % UT; 250/300 cycle	


Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a HOME HEALTHCARE ENVIRONMENT
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NOTE: UT is the a.c. mains voltage prior to application of the test level

**Guidance and manufacturer's declaration – electromagnetic immunity**

The LED Light Therapy Mask is intended for use in the electromagnetic environment specified below. The customer or the user of the LED Light Therapy Mask should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Conducted RF IEC 61000-4-6	3 Vrms 0,15 MHz and 80 MHz  6 Vrms in ISM and amateur radio bands between 0,15 MHz and 80 MHz	3 Vrms 0,15 MHz and 80 MHz  6 Vrms in ISM and amateur radio bands between 0,15 MHz and 80 MHz	Portable and mobile RF communications equipment should be used no closer to any part of the LED Light Therapy Mask, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = 1,2\sqrt{P}$ $d = 1,2\sqrt{P}$ 80 MHz to 800 MHz $d = 2,3\sqrt{P}$ 800 MHz to 2,7 GHz
Radiated RF IEC 61000-4-3	10 V/m 80 MHz to 2.7GHz 80 % AM at 1 kHz	10 V/m 80 MHz to 2.7GHz 80 % AM at 1 kHz	Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation Distance in meters (m).

			Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, a should be less than the compliance level in each frequency range. b  Interference may occur in the vicinity of Equipment marked with the following symbol:  
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NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected

**Recommended separation distances between portable and mobile RF communications equipment and the LED Light Therapy Mask**

The LED Light Therapy Mask is intended for use in an electromagnetic environment in which radiated RF disturbances are control RGB. The customer or the user of the LED Light Therapy Mask can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the LED Light Therapy Mask as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter (W)	Separation distance according to frequency of transmitter (m)		
	150 kHz to 80 MHz $d = 1,2\sqrt{P}$	80 MHz to 800 MHz $d = 1,2\sqrt{P}$	800 MHz to 2.7 GHz $d = 2,3\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Table - Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment

Test Frequency (MHz)	Band (MHz)	Service	Modulation	Maximum Power (W)	Distance	Immunity Test Level (v/m)
385	380-390	TETRA 400	Pulse modulation 18 Hz	1.8	0.3	27
450	430-470	GMRS 460, FRS 460	FM ±5 KHz deviation 1KHz sine	2	0.3	28
710 745 780	704-787	LTE 13, 17 Band	Pulse modulation 217 Hz	0.2	0.3	9
810 870 930	800-960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE 5 Band	Pulse modulation 18 Hz	2	0.3	28
1720 1845 1970	1700-1990	GSM 1800, CDMA 1900, GSM 1900, DECT, LTE 1, 3, 4, 25 Band, UMTS	Pulse Modulation 217 Hz	2	0.3	28
2450	2400-2570	Bluetooth, WLAN 802.11 b/g/n, RFID 2450, LTE 7 Band	Pulse modulation 217 Hz	2	0.3	28

5240	5100-5800	WLAN 802.11 a/n	Pulse modulation 217 Hz	0.2	0.3	9
5500						



For additional tips and information visit:  
[www.ledesthetics.com](http://www.ledesthetics.com)

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