

ISO ISO ISO  
13485 14001 9001



# GP-1080L

## Laser Therapy Low-Frequency Stimulator

Surgical Laser Therapy Device

**MANUAL**



Good People & Plus

**Goodpl**

# Relieving Pain

Wellbeing and health life  
for the wonderful world

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We are not responsible for any damages to the product caused by failure to observe the operating instructions and precautions described in this manual.

Please note that this manual and the specifications of the product may vary slightly depending on function improvements and the user's convenience.

We are not responsible for any damages to the product caused by operating the options or consumables other than the specified standards.

This product is a medical device, so please be sure to fully understand precautions and operating functions.

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Laser Therapy Low-Frequency Stimulator

## GP-1080L

This device is used for the purpose of pain relief. It stimulates the skin surface with laser electrodes or low-frequency electrodes, and relieves pain through the laser beam or low-frequency irradiation..

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## Caution

### Contraindications

If you are included in the following case, please consult a doctor before using this product.

- Those with severe pain or disc
- People who have abnormal symptoms in the applied area after irradiation
- Those with a malignant tumor or fever
- People who suffer a heart disease depending on temperature changes
- People who do not feel temperature changes
- Those with epilepsy



### Warnings

1. Use this device according to your doctor's prescription and guidance.
2. Do not modify the device arbitrarily.
3. Do not use for other purposes.
4. If an abnormality occurs in your body, stop using it immediately and consult your doctor.

### Precautions

There is no age or gender limit in applying this device to patients, Therefore, it is necessary to decide whether or not to use it depending on the health status of patients

### Precautions to take when using the device

1. Since the beam emitted by this laser device may cause damage to the retina resulting in decreased visual acuity, you should never see the laser beam directly or indirectly.
2. Pregnant women, juveniles under 18 years, breastfeeding women, fertile women, newborn babies, infants, children and the elderly should use this device according to the doctor's directions.

### General precautions

1. Use the product depending on the prescription and guidance of a doctor, and read the user's guide before using it.
2. This device is for medical use only.
3. Do not use it for a long period of time other than the specified time.
4. Check out whether the product normally functions before using it.
5. Keep it away from hazardous materials.

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## Safety precautions

1. Do not look directly at the laser beam.
2. It is necessary to wear safety goggles to protect the laser range of this product.
3. If an abnormality is found in the device or patient, take appropriate actions.  
For example, stop the device and help the patient be in a safe state.
4. Immediately stop using the product in case of failure or malfunction, and contact the manufacturer or authorized specialists.

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## Mutual interaction

Please note that using the product with other equipment can cause harm or damage.

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## How to clean

After using the device, turn off the power and wipe it with a dry cloth or soft brush.

# Laser

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## Laser safety precautions

- Check out this laser device and its surrounding environment before using it.
- Wear laser protective goggles while using the product.
- Since the beam emitted by this laser device may cause damage to the retina resulting in decreased visual acuity, you should never see the laser beam directly or indirectly.
- If your eye is exposed to the laser beam, go to see a doctor immediately.

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## Laser specifications

Laser output: 200mW / Wavelength: 635nm  
Pulse frequency: 1, 3, 5, 10, 100, 500, 1000, 5000, 10000Hz, CON, WAVE

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## Specifications of laser safety goggles

Material: frame/plastic (type 2)  
Adaptative wavelength: 600~700nm / Optical density(OD) : 2

※ Caution – Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure

※ This product is repaired and maintained by Goodpl Inc.

## Part & Function



**Power switch**  
powering the device on or off

**Key switch**  
Operation of the device is possible only when it is on.  
(The key is not separated from it when the key switch is on.)

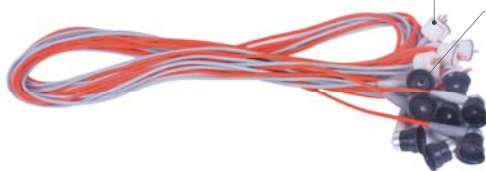


**Interlock**  
Normal operation is possible when the interlock switch is connected. When it is disconnected, the power is turned off.

**Mains connection**  
The power source is connected in it. (AC 220V)

**Emergency stop switch**  
It is used to stop the device in emergency.  
(The notification of emergency is displayed on the screen.)

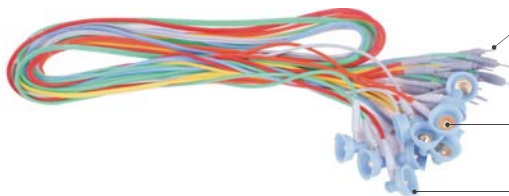
**Laser electrode connection**  
connecting the laser electrode wires to the main body (fixed to the main body)



**Laser diode**  
producing laser beams

**Laser electrode cups**  
suction cups that are closely attached to the affected area and irradiated by the laser

**Low-frequency electrode connection**  
connecting the low-frequency electrode wires to the main body



**Low-frequency output section**  
producing low-frequency output

**Low-frequency electrode cups**  
suction cups that are closely attached to the affected area during low-frequency stimulation

# Operating screen

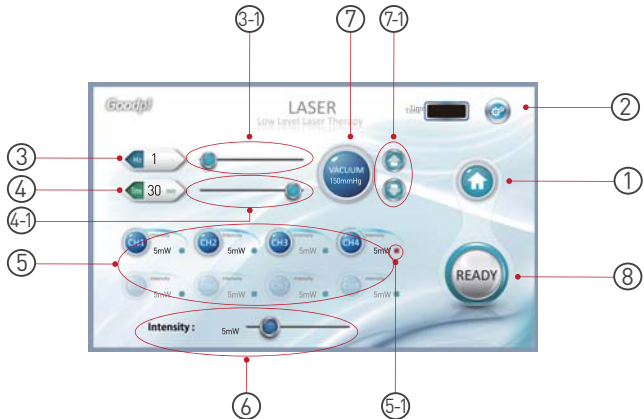
## Main screen



1. It switches to the laser mode between the laser and low-frequency (MCT) mode when touching the laser icon ①.
2. It switches to the low-frequency (MCT) mode between the laser and low-frequency (MCT) mode when touching the MCT icon ②.
3. It displays the current time

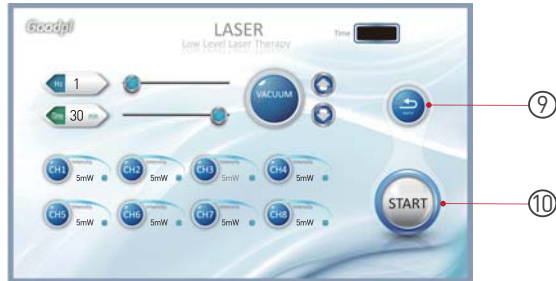
## Laser mode

- Setting up the output screen





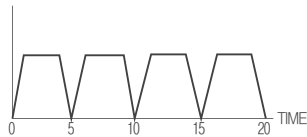
- Ready screen (standby screen)






1. When you touch the icon ①, it moves to the MAIN screen.
2. When you touch the icon ②, it moves to the setup screen.
3. When you drag the round control icon of ③-1 BAR, the type of laser output (pulse frequency) is adjusted, and the icon ③ is displayed with [1/3/5/10/100/500/1,000/5,000/ 10,000Hz/CON/WAVE].

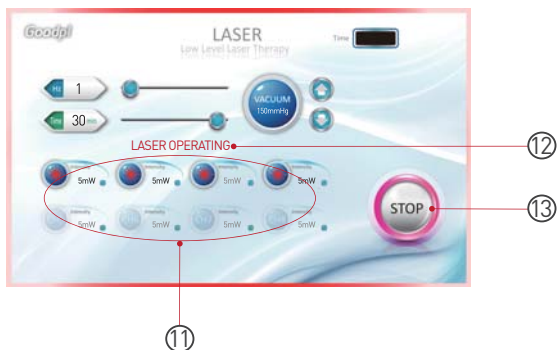
- CON: continue

- WAVE:



4. When you drag the round control icon of ④-1 BAR, the stimulation time is adjusted, and the icon ④ is displayed with [5, 10, 15, 20, 30, 45, 60, 90 minutes].
5. When you touch the icon ⑤ [CH1-CH8] , its color changes from light blue [CH5-CH8]  to dark blue [CH1-CH4]  and the ⑤-1 small round icon turns red.
6. You can control the output of the selected channel when dragging the round icon of ⑥ Intensity BAR, and the new output value is displayed on the left intensity BAR. [5/10/15/20/30/40/50/100/150/200 mW]
7. When you touch the up/down icon ⑦-1, the suction pressure is adjusted. The set value is displayed on the icon ⑦, and suction starts. [0/150/200 / 250mmHg]
8. When the icon ⑧ is touched, it moves to the READY screen (standby screen), and the output value such as laser or suction pressure can be checked out.
9. When you touch the BACK icon ⑨, it moves to the previous screen (output setting screen).
10. When touching the START icon ⑩, it moves to the laser output screen and produces the laser output.

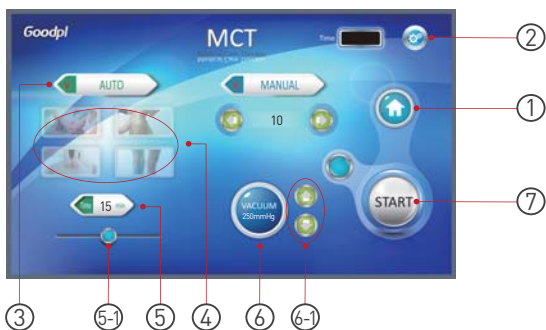
- Laser output screen



11. ⑪ shows the operating status of each channel. When the laser output is produced, the laser motion indicator of the corresponding channel (CH1~CH4) blinks. (The laser motion indicator is displayed among 5, 10, 15, 20, 30, 40, and 50mW. 100, 150, and 200mW are gradually decreased up to 8mW for 7 seconds in the corresponding output, and the repeated output value is displayed. ※ Variable output)
12. The notification of LASER OPERATING is displayed like ⑫ during laser output.
13. When you touch the STOP icon ⑬, it moves to the laser output setting screen and all laser outputs stop. (The suction pressure is held for 30 seconds after touching the STOP icon, and then it stops.)

## Low-frequency (MCT) AUTO MODE

- The auto mode output setting screen



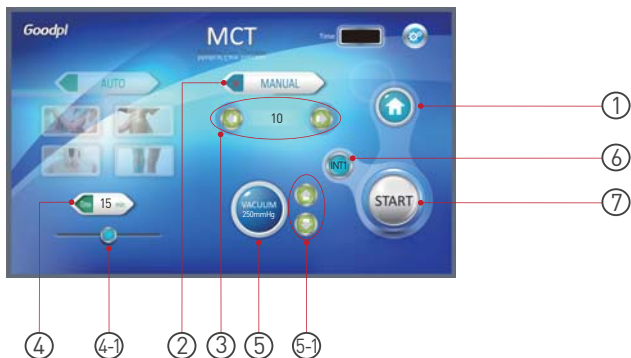
- The auto mode output screen



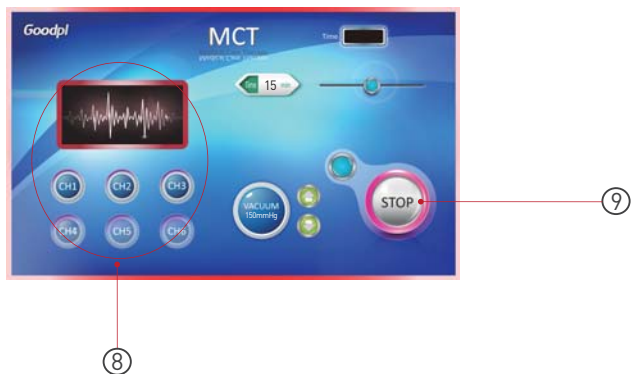
1. When you touch the icon ①, it moves to the MAIN screen.
2. When the icon ② is touched, it moves to the setup screen.
3. Select the AUTO MODE, pressing on the icon ③.
4. When touching the four icons ④, select one from AUTO1 to AUTO4.
5. When dragging ⑤-1, the stimulation time is set up, and the set value is displayed in the icon ⑤. (1/5/10/15/20/30 minutes)
6. When touching the up/down icon ⑥-1, you can set up suction pressure.  
The suction pressure value is displayed in the icon ⑥. (0/150/200/250mmHg)
7. When the START icon ⑦ is touched, stimulation including all the outputs starts.
8. ⑧ shows the operating status of each channel.  
(The channel producing the low-frequency output is activated like ⑧ CH1~CH3.)
9. The stimulation stops when touching the STOP icon ⑨. All the outputs stop.

## Low-frequency (MCT) mode (MANUAL MODE)

- MANUAL mode output setting screen



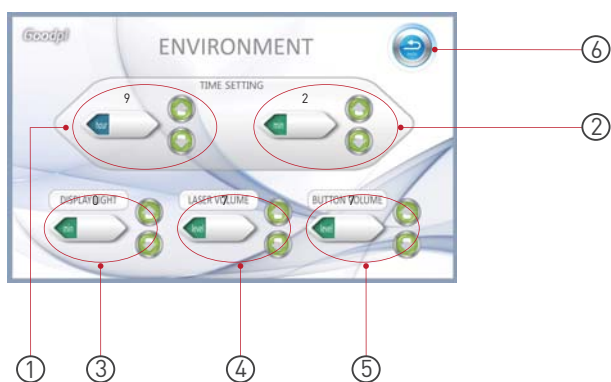
- MANUAL mode output screen



1. When the icon ① is touched, it moves to the MAIN screen.
2. Select the MANUAL MODE, pressing on the icon ②.
3. You can set up the output frequency by touching the left or right icon ③, and the set value is displayed. (1/3/5/10/15/20/30/60/120/150/250/500/1,000Hz)
4. You can set up the stimulation time by dragging ④-1, and the set value is displayed on the icon ④. (1/5/10/15/20/30 minutes)
5. When touching the up/down icon ⑤-1, the suction pressure is adjusted. The set value is displayed in the icon ⑤. (0/150/200 / 250mmHg)

6. When touching the icon ⑥, set up CON/INT1/INT2/INT3.  
 [CON: continue / INT1: 3 sec. increase / maintain, 2 sec. decrease  
 INT2: 4 sec. increase / maintain, 2 sec. decrease  
 INT3: 5 sec. increase / maintain, 2 sec. decrease]
7. When touching the START icon ⑦, the treatment is started. All the outputs start.
8. ⑧ shows the operating status of each channel.  
 (The channel producing the low -frequency output is activated like ⑧ CH1~CH3.)
9. The treatment stops when touching the STOP icon ⑨. All the outputs stop.

## The setup mode



1. You can set up "hour" of the current time by touching the up/down icon ①, and the set value is displayed on the left hour icon.
2. You can set up "minutes" of the current time by touching the up/down icon ②, and the set value is displayed on the left minute icon.
3. You can set up the power save mode time by touching the up/down icon ③, and the set value is displayed on the minute icon. (screen brightness setting)
4. You can set up the volume of laser warning sound when touching the up/down icon ④, and the set value is displayed on the left level icon.
5. Pressing on the up/down icon ⑤, you can set up the level of the button volume, and the set value is displayed on the left level icon.
6. Move to the previous screen, touching the icon ⑥.

# Preparation

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## Preparation before using the product

1. Connect the power cord to the outlet.
2. Connect all wires properly
3. Check out if each control button and switch works properly.
4. If you have not used the device for a long time, reconfirm whether it functions well.
5. Make sure that the direction of the laser is not aimed at the eyes or people with thin skin.
6. Read the user's manual carefully.
7. Check out whether the laser output is produced.
8. Wear the certified laser safety goggles during the laser treatment.

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## How to maintain the product after use

1. Recover the specified state and turn off the power after use
2. Do not force to connect/disconnect the power cables, low frequency electrode cables, or laser electrode cables at once.
3. Keep the components (power cables, low-frequency/laser electrode cables) clean and organized.
4. Keep the product in a dry place.
5. Keep out of reach of children.
6. Keep the device in place away from air, atmospheric pressure, temperature, humidity, ventilation, sunlight, dust, and salinity.
7. Do not use volatile liquids such as thinner when cleaning the device.  
Instead, use a soft cloth or the cloth soaked in neutral detergent.
8. Be careful about safety conditions such as inclination, vibration, or impacts.
9. Keep the device in place away from chemicals or gas.
10. Check out the device and parts regularly.
11. Be sure to check out whether it is clean and safe,  
or it works properly when reusing the product that has not been used for a long time.

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## How to clean (laser / low-frequency electrode cables)

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### Product maintenance and cleaning

1. Before cleaning the product, be sure to turn off the power and remove the power cables.
2. Wipe the outside of laser/low-frequency electrode cables and the parts that come into contact with intact skin with the squeezed cloth after soaking it in water with mild detergent or soapy water.
3. When cleaning the laser electrode cables, clean the part where the laser beam comes out with alcohol. Do not immerse the laser output part in alcohol.

# How to use

## Selecting the power on/off

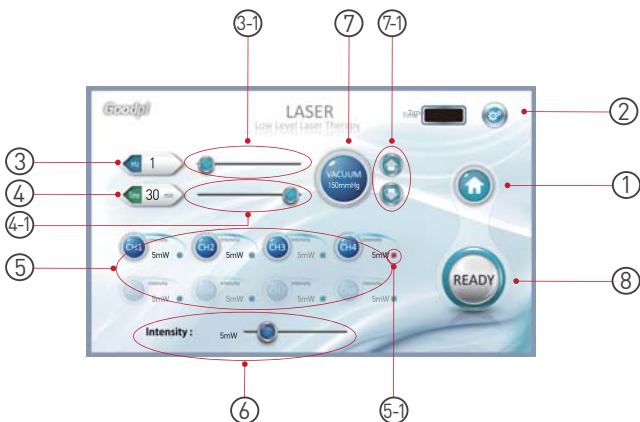
Turn on the power switch after connecting the power cord, key switch, and interlock switch to the back of the main body.

## Selecting the main menu

1. Touch the LASER icon ① to switch to the laser mode during laser stimulation.
2. In case of low frequency (MCT) stimulation, touch the MCT icon ② to switch to the low frequency (MCT) mode.
3. The icon ③ shows the current time.



## How to use the laser mode (when touching the laser icon)

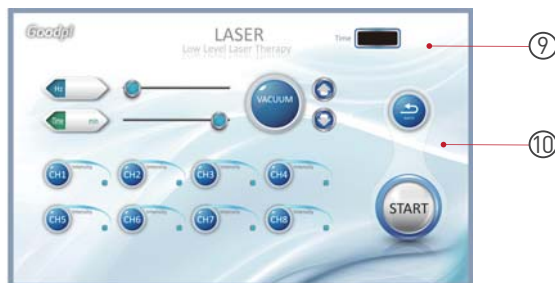


1. When touching the icon ①, it moves to the MAIN screen.
2. When touching the icon ②, it moves to the setup screen (current time/power saving mode time/laser volume/button sound).

3. Set up the laser output type (pulse frequency), dragging the round BAR icon ③-1.  
(1/3/5/10/100/500/1,000/5,000/10,000Hz/CON/WAVE)  
The adjusted pulse frequency is displayed on the icon ③.
4. Set up the treatment time, dragging the round BAR icon ④-1.  
(5, 10, 15, 20, 30, 45, 60, 90 minutes)  
The adjusted stimulation time is displayed on the icon ④.
5. After selecting the channel to produce the laser output from ⑤ CH1~CH8, set up the laser output value, dragging the round Intensity BAR icon ⑥.  
(5/10/15/20/30/40/50/100/150/200 mW)  
The selected channel is indicated by a red round icon, not a blue one like ⑤-1.
6. Set up the suction pressure, touching the up/down icon ⑦-1. (0/150/200 / 250mmHg)  
The new suction pressure is displayed on the icon ⑦, and suction starts with the set value. Attach the laser electrode cups to the affected area at the start of suction.

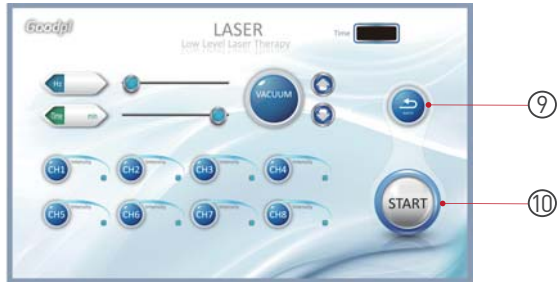


7. When you touch the icon ⑧, it moves to the READY screen (standby screen), switching to the START icon from the READY.
8. After switching to the READY screen (standby screen), check out the set output value.



9. When changing the set value, touch the BACK icon ⑨ to move to the previous screen (output setting screen). To activate the laser; touch the START icon ⑩ to produce the laser output. (Move to the laser output screen.)

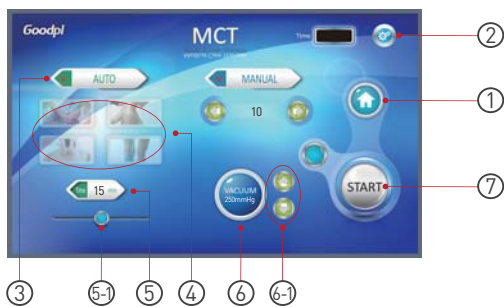




10. ⑩ shows the operating status of each channel. If the laser beam comes out, the laser motion indicator of the corresponding channel(CH1~CH4) blinks and the output value is displayed. (The laser motion indicator is displayed among 5, 10, 15, 20, 30, 40, and 50mW. 100, 150, and 200mW are gradually decreased up to 8mW for 7 seconds in the corresponding output, and the repeated output value is displayed. ※ Variable output)
11. While the laser output is produced, the notification of "LASER OPERATING" is displayed like ⑪.
12. If you want to stop the therapy, touch the STOP icon ⑬ to finish up all the outputs, and switch to the laser output setting screen. After touching the STOP icon, suction pressure is maintained for 30 seconds and then it stops.
13. If an emergency situation occurs during laser irradiation, press the emergency stop switch on the back of the main body. It stops the laser and all the outputs.

### How to use the low-frequency MODE (when touching the MCT icon)

- The AUTO MODE



1. When you touch the icon ①, the MAIN screen appears.
2. Touching the icon ②, move to the setup screen (current time/power saving mode time/laser volume/button sound).

3. When you want to use the AUTO mode, touch the icon ③ to set up the AUTO mode.
4. Set up using the four icons ④ [AUTO1~AUTO4].
5. Set up the stimulation time dragging ⑤-1,  
and the new set value is displayed on the icon ⑤. (1/5/10/15/20/30 minutes)
6. Set up the suction pressure, touching the up/down icon ⑥-1.  
The set value is displayed on the icon ⑥. (0/150/200 / 250mmHg)
7. At the start of stimulation, touch the START icon ⑦ to start stimulation.  
(It starts all the outputs.)

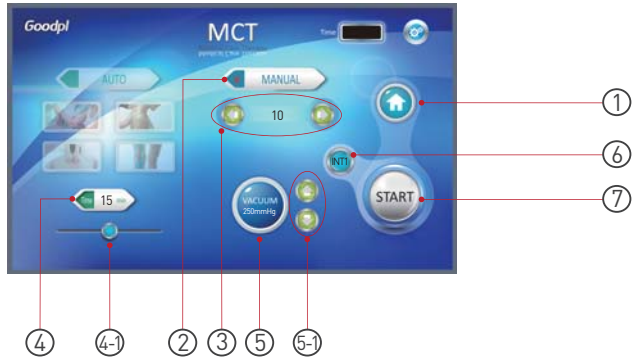


8. After starting the stimulation, attach the low-frequency electrode cables to the affected area during suction pressure operation.



9. Turn the low frequency output knob to the right to adjust the output of the selected channel.  
10. ⑧ shows the operating status of each channel.  
(The channel producing the low-frequency is activated like ⑧ from CH1 to CH3.)
11. When you want to stop the stimulation, touch the STOP icon ⑨ to finish up all the output.

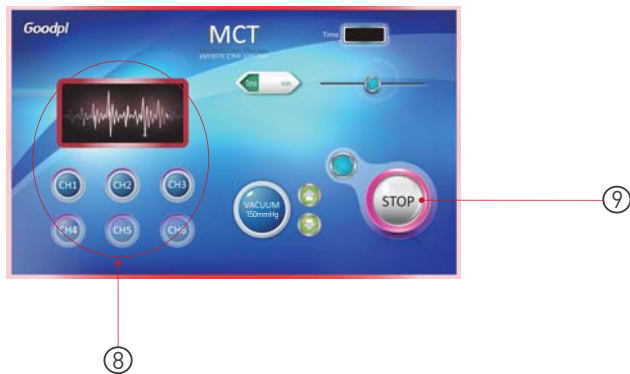
- MANUAL MODE



1. When you want to use the MANUAL mode, touch the icon ① to set it up.
2. Touch the left/right icon ③ to set up the output frequency, and check out the set output frequency.
3. Drag ④-1 to set up the stimulation time, and check out the set value on the icon ④. (1/5/10/15/20/30 minutes)
4. Touch the up/down icon ⑤-1 to set up the suction pressure, and check out the set value on the icon ⑤. (0/150/200/250mmHg)
5. Touch the icon ⑥ to set up CON/INT1/INT2/INT3.  
[CON: continue / INT1: 3 sec. increase / maintain, 2 sec. decrease / INT2: 4 sec. increase / maintain, 2 sec. decrease / INT3: 5 seconds increase / maintain, 2 seconds decrease]
6. At the start of stimulation, touch the START icon ⑦ to start stimulation including all the outputs.
7. After starting the stimulation, attach the low-frequency output electrode cables to the affected area during suction pressure operation.



8. Turn the low frequency output knob to the right to control the output of the selected channel.
9. ⑧ shows the operating status of each channel.  
(The channel producing the low-frequency output is activated like ⑧ from CH1 to CH3)



10. When you want to stop the stimulation, touch the STOP icon ⑨ to finish up the stimulation including all the output.

# Automode

A-1(Repeat continuously)

STEP	1	2	3	4	5	6	7	8	9	10	11	12
START(Hz)	3	3	20	7	7	3	20	7	7	7	3	3
END(Hz)	3	3	7	7	3	20	7	7	7	3	3	3
ROTATION(SEC)	30	36	28	108	8	36	28	108	90	8	60	60
TIME(SEC)	30	36	28	108	8	36	28	108	90	8	60	60

A-2(Repeat continuously)

STEP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
START(Hz)	3	3	20	25	25	50	50	100	50	100	50	100	50	100	100	20	10	3
END(Hz)	3	3	20	25	50	50	100	100	100	100	100	100	100	100	20	10	3	3
ROTATION(SEC)	30	36	24	30	25	35	25	60	25	25	25	60	25	60	40	10	14	16
TIME(SEC)	30	36	24	30	25	35	25	60	25	25	25	60	25	60	40	10	14	16

A-3(Repeat continuously)

STEP	1	2	3	4	5	6	7	8	9	10
START(Hz)	5	5	20	20	100	100	100	5	4	3
END(Hz)	5	20	20	100	100	100	2	5	4	3
ROTATION(SEC)	30	30	180	60	180	180	120	30	10	20
TIME(SEC)	30	30	180	120	180	180	120	30	10	20

A-4(Repeat continuously)

STEP	1	2	3	4	5	6	7	8	9	10	11	12	13
START(Hz)	3	3	7	7	30	30	30	50	80	100	100	7	3
END(Hz)	3	7	7	30	30	100	100	50	80	100	7	3	3
ROTATION(SEC)	30	30	60	22	38	32	35	90	90	90	82	28	60
TIME(SEC)	30	30	60	22	38	140	140	90	90	90	82	28	60

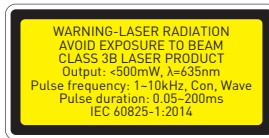
## Label

### Label indicating the LASER



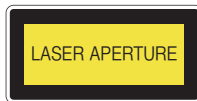
The label attached to the bottom of the laser radiation emission part notifies where the laser beam is produced.

### WARNING



The label attached to the front of the device informs that it is a 3B class laser device

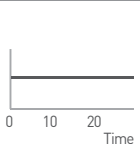
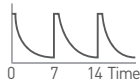


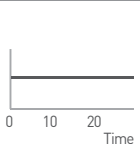
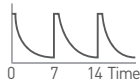
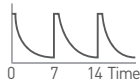


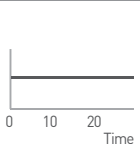
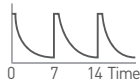
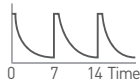
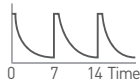


### LASER APERTURE (laser hazard safety label)



The laser beam comes out from the area that attaches to the skin at the end of the laser electrode cable.

# Specification

## 1. Laser therapy device

Rated voltage	AC 220V	Laser type	Low-laser diode (Low-LASER Diode)																																																																																
Rated frequency	50/60Hz	Laser wavelength	635nm (within $\pm 20\%$ )																																																																																
- Laser output according to pulse frequency (within $\pm 20\%$ each)		- Output type (within $\pm 20\%$ each)																																																																																	
Laser output	1Hz 3Hz 5Hz 10Hz 100Hz 1,000Hz 5,000Hz 10,000Hz WAVE	5, 10, 15, 20, 30, 40, 50, 100, 150, 200mW(Max)	<table border="1"> <tr> <td>5mW</td> <td rowspan="8">  </td> <td>5mW continuous output (no variables)</td> </tr> <tr> <td>10mW</td> <td>10mW continuous output (no variables)</td> </tr> <tr> <td>15mW</td> <td>15mW continuous output (no variables)</td> </tr> <tr> <td>20mW</td> <td>20mW continuous output (no variables)</td> </tr> <tr> <td>30mW</td> <td>30mW continuous output (no variables)</td> </tr> <tr> <td>40mW</td> <td>40mW continuous output (no variables)</td> </tr> <tr> <td>50mW</td> <td>50mW continuous output (no variables)</td> </tr> <tr> <td>100mW</td> <td>Starting at 100mW, the output is sequentially reduced to 8mW for 7 seconds, and then it repeats the procedure.</td> </tr> <tr> <td rowspan="2">Laser pulse frequency (output type)</td> <td>CON</td> <td>5, 10, 15, 20, 30, 40, 50, 100mW(Max)</td> <td> <table border="1"> <tr> <td>150mW</td> <td rowspan="3">  </td> <td>Starting at 150mW, the output is sequentially reduced to 8mW for 7 seconds, and then it repeats the procedure.</td> </tr> <tr> <td>200mW</td> <td>Starting at 200mW, the output is sequentially reduced to 8mW for 7 seconds, and then it repeats the procedure.</td> </tr> <tr> <td></td> <td></td> </tr> </table> </td> </tr> <tr> <td>Laser pulse frequency (output type)</td> <td>1Hz - 50ms 3Hz - 50ms 5Hz - 50ms 10Hz - 50ms 50Hz - 1ms 100Hz - 1ms 1,000Hz - 700us 5,000Hz - 100us 10,000Hz - 50us CON - Continue</td> <td> <p>Basic waveforms -</p>  </td> <td> <p>Output waveforms</p> <table border="1"> <thead> <tr> <th>Output</th> <th>increase</th> <th>maintain</th> <th>decrease</th> </tr> </thead> <tbody> <tr> <td>5mW</td> <td>25ms</td> <td>4s</td> <td>3s</td> </tr> <tr> <td>10mW</td> <td>200ms</td> <td>5s</td> <td>1.3s</td> </tr> <tr> <td>15mW</td> <td>40ms</td> <td>6s</td> <td>600ms</td> </tr> <tr> <td>20mW</td> <td>40ms</td> <td>6s</td> <td>600ms</td> </tr> <tr> <td>30mW</td> <td>25ms</td> <td>6s</td> <td>600ms</td> </tr> <tr> <td>40mW</td> <td>25ms</td> <td>6s</td> <td>600ms</td> </tr> <tr> <td>50mW</td> <td>20ms</td> <td>6s</td> <td>600ms</td> </tr> <tr> <td>100mW</td> <td>5ms</td> <td>6s</td> <td>200ms</td> </tr> <tr> <td>150mW</td> <td>5ms</td> <td>6s</td> <td>150ms</td> </tr> <tr> <td>200mW</td> <td>4ms</td> <td>6s</td> <td>100ms</td> </tr> </tbody> </table> </td> </tr> <tr> <td></td> <td>  </td> <td></td> <td></td> </tr> </table>	5mW		5mW continuous output (no variables)	10mW	10mW continuous output (no variables)	15mW	15mW continuous output (no variables)	20mW	20mW continuous output (no variables)	30mW	30mW continuous output (no variables)	40mW	40mW continuous output (no variables)	50mW	50mW continuous output (no variables)	100mW	Starting at 100mW, the output is sequentially reduced to 8mW for 7 seconds, and then it repeats the procedure.	Laser pulse frequency (output type)	CON	5, 10, 15, 20, 30, 40, 50, 100mW(Max)	<table border="1"> <tr> <td>150mW</td> <td rowspan="3">  </td> <td>Starting at 150mW, the output is sequentially reduced to 8mW for 7 seconds, and then it repeats the procedure.</td> </tr> <tr> <td>200mW</td> <td>Starting at 200mW, the output is sequentially reduced to 8mW for 7 seconds, and then it repeats the procedure.</td> </tr> <tr> <td></td> <td></td> </tr> </table>	150mW		Starting at 150mW, the output is sequentially reduced to 8mW for 7 seconds, and then it repeats the procedure.	200mW	Starting at 200mW, the output is sequentially reduced to 8mW for 7 seconds, and then it repeats the procedure.			Laser pulse frequency (output type)	1Hz - 50ms 3Hz - 50ms 5Hz - 50ms 10Hz - 50ms 50Hz - 1ms 100Hz - 1ms 1,000Hz - 700us 5,000Hz - 100us 10,000Hz - 50us CON - Continue	<p>Basic waveforms -</p> 	<p>Output waveforms</p> <table border="1"> <thead> <tr> <th>Output</th> <th>increase</th> <th>maintain</th> <th>decrease</th> </tr> </thead> <tbody> <tr> <td>5mW</td> <td>25ms</td> <td>4s</td> <td>3s</td> </tr> <tr> <td>10mW</td> <td>200ms</td> <td>5s</td> <td>1.3s</td> </tr> <tr> <td>15mW</td> <td>40ms</td> <td>6s</td> <td>600ms</td> </tr> <tr> <td>20mW</td> <td>40ms</td> <td>6s</td> <td>600ms</td> </tr> <tr> <td>30mW</td> <td>25ms</td> <td>6s</td> <td>600ms</td> </tr> <tr> <td>40mW</td> <td>25ms</td> <td>6s</td> <td>600ms</td> </tr> <tr> <td>50mW</td> <td>20ms</td> <td>6s</td> <td>600ms</td> </tr> <tr> <td>100mW</td> <td>5ms</td> <td>6s</td> <td>200ms</td> </tr> <tr> <td>150mW</td> <td>5ms</td> <td>6s</td> <td>150ms</td> </tr> <tr> <td>200mW</td> <td>4ms</td> <td>6s</td> <td>100ms</td> </tr> </tbody> </table>	Output	increase	maintain	decrease	5mW	25ms	4s	3s	10mW	200ms	5s	1.3s	15mW	40ms	6s	600ms	20mW	40ms	6s	600ms	30mW	25ms	6s	600ms	40mW	25ms	6s	600ms	50mW	20ms	6s	600ms	100mW	5ms	6s	200ms	150mW	5ms	6s	150ms	200mW	4ms	6s	100ms				
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Pulse width	1Hz - 50ms	500Hz - 1ms	Laser safety rating	3B
	3Hz - 50ms	1,000Hz - 700us	Laser element	AlGaInP
	5Hz - 50ms	5,000Hz - 100us	Irradiation diameter	4mm
	10Hz - 50ms	10,000Hz - 50us	channels	8 channels
	100Hz - 1ms			

## 2. Low-frequency therapy device

Time setting	1, 5, 10, 15, 20, 30 min.	INT/CON	CON: the section where an electric current normally flows
Suction pressure	0, 150, 200, 250mmHg		INT: The output of the specified section decreases gradually, and it repeats the procedure as the following table.
Low-Frequency output waveform	Square waves		INT1 - 3 second increase/maintain, 2 second decrease
Pulse Width	100us (within ±20%)		INT2 - 4 second increase/maintain, 2 second decrease
Low-frequency output frequency	1, 3, 5, 10, 15, 20, 30, 60, 120, 150, 250, 500, 1000Hz (within ± 20% each)		INT3 - 5 second increase/maintain, 2 second decrease
Low-frequency output strength	90Vp-p (within ±20%)	AUTO mode	A1 - A4
		channels	6 channels



# Stated matter

Name of Product	Surgical Laser Therapy Device	How to use	15-20page
Name of model	GP-1080L	Precautions	4page
Name of company	Goodpl Inc.	Rated power constant, voltage, frequency	Single phase, AC 220V, 50/60Hz
Manufacturer's address	107 Dongwha Gongdan-ro, Munmak-eup, Wonju-si, Gangwon-do 26365, Republic of Korea	Power Consumption	70VA
Manufacturing licence number	JEHEO 16-680	Protection type against electric shock	Type 1
Purpose of use	general pain relief	Protection degree against electric shock	Type BF
Manufacturing number and date	published at the time of production.	This product is a medical device.	
Weight or packing unit	1 set		

문서확인번호 : GAB3-6S3B-SYDS-PY60

2016-12-07  
11:51:32  
421

제허 16-680 호

## 의료기기 제조 허가증

업허기번호 : 제 2246호

구	분	제조	품목/품목류	품목
명칭 (제품명, 품목명, 모델명)		(주)굿플, GP-1080L, 의료용레이저조 사기, GP-1080L	분류번호(등급)	A37020.01 (3)
모양 및 구조		별첨		
원재료		별첨		
제조방법		별첨		
성능		별첨		
사용목적		별첨		
사용방법		별첨		
사용시 주의사항		별첨		
포장단위		별첨		
저장방법 및 사용기간		저장방법 : 별첨, 사용기간 : 별첨		
시험규격		별첨		
제조(수입)업자 정보		제조(수입)업자 : (주)굿플, 강원도 원주시 문막읍 동화공단로 107 제조원 : 상동		
허가조건		없음		
소재지		강원도 원주시 문막읍 동화공단로 107		
비고				

「의료기기법」 제6조·제15조 및 같은 법 시행규칙 제5조제2항·제34조에 따라 위와 같  
이 허가합니다.

2016 년 09 월 06 일

식품의약품안전처장(인)

# Product warranty

• Product name : Surgical Laser Therapy Equipment • Model name : GP-1080L

Consumer	name		purchasing date	. . .
	address		manufacturing number	

Store name. \_\_\_\_\_ address. \_\_\_\_\_ phone number. \_\_\_\_\_

1. This product has passed the strict inspection by the quality control. We will guarantee the product according to the contents of this warranty if it breaks down under normal conditions.
2. If you need a customer service, please bring your warranty to the Goodpl service center or the store where you purchased the product.
3. If you cannot have your product repair in the store where you purchased it, please contact the service center or counseling office listed at the bottom of the warranty card via phone or email.  
You can also visit the center for the customer service.
4. If you send this warranty card to the head office by fax, it will be registered on the product history card after the confirmation call. Otherwise, the warranty period is determined on the basis of the dispatch date.
5. In the following cases, you will be charged for the actual expenses even during the warranty period.
  - A. Malfunction due to the user's fault
  - B. Failure due to natural disasters such as fire or flood
  - C. Failure due to transportation after installation
  - D. Breakdown due to power failure
  - E. Asking for a customer service without the warranty card
  - F. Failure due to unauthorized repair or internal modification

**Warranty period**  
1 year after purchase

If the product breaks down due to customers' carelessness, arbitrary repair or modification, they cannot receive free service even during the warranty period.

The CS office telephone number  
**1644-5866**

Online application  
**www.goodpl.kr**



Head office/Factory : 107 Dongwha Gongdan-ro, Munmak-eup,  
Wonju-si, Gangwon-do 26365, Republic of Korea  
TEL. 1644-5866 FAX. 033-746-1545

Good People & Plus

**Goodpl**

주식회사 굿플

우) 26365 강원도 원주시 문막읍 동화공단로 107  
Tel. 1644-5866 Fax. 033-746-1545

**GOODPL INC.**

107 Donghwa Gongdan-ro, Munmak-eup, Wonju-si,  
Gangwon-do 26365, Republic of Korea  
Tel +82-2-1644-5866 Fax +82-33-746-1545

Publication\_2017. 12



Manufacturing licence number : JEHEO 16-680  
Manufacturing permit number : DS2246