CW Laser Probes
For every need

Operating Instructions
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<td>13</td>
<td>Manufacturer/Distributor</td>
<td>27</td>
</tr>
</tbody>
</table>
Your RJ laser probe
Thank you for choosing a Reimers & Janssen laser probe. Our extensive probe product line provides the optimum laser probe for every therapy.

Whether you’re using a surface probe, single probe, or laser needles, all of our highly specialized laser probes are operated by the same control unit, the Physiolaser olympic. With this modular design, we can combine technological innovations with a sophisticated control concept.

This brings several advantages for you as a therapist. Once you have familiarized yourself with the intuitive operation of your control unit, you can use another probe in essentially the same way. This means that there is little change in your work routine if you purchase a new probe for additional applications.

Your Physiolaser automatically detects which probe is attached and “remembers” your preferred settings. The Physiolaser even let you use two therapy probes at the same time.

Thanks to the modular design, you can always benefit from the latest research innovations because your control unit can be easily updated with the latest therapy programs.

With laser probes from Reimers & Janssen, you can utilize the versatile capabilities of gentle laser therapy to achieve the best possible results for your patients.
General information

This device is a laser probe that can only be operated in combination with a control unit, your Physiolaser.

Read the operating instructions for your control unit thoroughly before using the probe.

These instructions complement the operating instructions for your Physiolaser and cover special functions of the probe. They also describe the commissioning of the device and indicate hazards associated with its use.

All individuals who use, care for, service, or supervise this device must read and follow the instructions.

These operating instructions must always be kept with the device and must be included with the laser probe if given to others.

Liability disclaimer

You may use the laser probe only for the purposes described in these operating instructions and only under supervision!

The laser probe may only be operated with accessories approved by Reimers & Janssen GmbH and only with a control unit manufactured by Reimers & Janssen GmbH. Currently, this is the Physiolaser olympic (model 172).

Never open the device. Any repair and maintenance work may only be performed by Reimers & Janssen GmbH or a company authorized by Reimers & Janssen GmbH.

The manufacturer is not liable for the device and the consequences resulting from operation or applications that are not described within these operating instructions. The manufacturer reserves the right to make changes based on technological improvements.

Functions and safety standards

The probes conform to the following international safety standards:

- IEC 60601-1 - Safety of medical electrical devices
- IEC 60601-1-2 - Electromagnetic compatibility
- IEC 60601-1-6 - Usability
- IEC 60601-2-22 - Safety of diagnostic and therapeutic laser devices
- IEC 60825-1 - Safety of laser products
Safety precautions

Emergency shutdown
Firmly press in the red "Emergency Stop" button on the control unit, turn the safety key to "off", and disconnect the plug for the safety lock "Remote control plug".

Treatment area
Operate the laser only indoors. The room in which laser therapy is performed must meet the requirements of national accident prevention regulations. All entrances must display a laser warning sign in compliance with IEC 60825-1. Reflective objects, mirrors, and chrome surfaces must be removed. Children may enter the room only as patients and must be under constant supervision.

Personnel
The laser may be operated only by a trained physician or under the supervision of a trained physician. Any person who uses the device must be instructed in the handling of the device and in the dangers associated with laser radiation. The operator of a Class 3B laser device must have access to a laser safety officer who has professional experience assessing and controlling the hazards associated with lasers, and who will be responsible for the supervision of the protective measures against laser hazards.

Radiation injuries
Avoid direct or scattered radiation to the eyes. Do not look directly into the laser radiation output area, since visible and invisible laser radiation can cause injury to the eye. SPERIAN 3199-21160RJ laser protective eyewear conforming to the European standard EN 207 must always be worn within the treatment room during treatment. Exercise caution when performing therapy on the head region!

When treating patients with darkly pigmented skin, birthmarks, tattoos, etc. be aware of the risk of burning because melanin or color in the skin tissue absorbs the light.

Reduce the energy output if the patient has darkly pigmented skin.
Risk of infection
While performing therapy on damaged skin, keep the probe approx. 1 cm from the skin to avoid direct contact and prevent bacterial contamination.

After each treatment, disinfect your probe as described in the chapter Care and maintenance on page 20. If you use an applicator, also disinfect the applicator after each treatment in order to minimize the risk of patient infection.

Risk of burns
The probe tip may become very hot at high power output and an extended treatment time. In this case, avoid direct skin contact by using a cap or applicator. Otherwise, burns may occur. Alternately, reduce the treatment time.

Prevent unauthorized use
Your Physiolaser is equipped with a safety key to prevent unauthorized use. The laser can be operated only with the key inserted.

When the laser is not in use, the key should always be removed and stored separate from the unit in order to prevent unauthorized use.

Registration
Operators of the Physiolaser must be registered as an operator of a Class 3B laser device prior to the first commissioning of the device. Observe the applicable national regulations and rules.

Decommissioning in the event of a hazard
If you believe that the device can no longer be operated safely, it should be decommissioned to prevent against further use and to send it to the distributor for repair. Such cases include:
- housing components or the probe cable have visible damage
- the device no longer functions properly
- the device has been stored or transported for a long period under adverse conditions
- the display fails or is illegible.
Delivery contents

- Laser probe
- Carry bag (soft case)
- Tip attachment No. 5251 (single probes only)

Accessories

In addition to manufacturing laser probes in various power output classes and wavelengths, Reimers & Janssen also offers various accessories for our single probes. These applications can be easily screwed onto the product in place of the standard attachment, allowing for even more applications.

Available applicators suitable for all CW single probes

<table>
<thead>
<tr>
<th>Item</th>
<th>Length</th>
<th>Diameter*</th>
<th>Item No.</th>
<th>Illustration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Convex lens</td>
<td>10 mm</td>
<td></td>
<td>523</td>
<td></td>
</tr>
<tr>
<td>Quartz tip attachment</td>
<td>2 cm</td>
<td>2 mm</td>
<td>5241</td>
<td></td>
</tr>
<tr>
<td>Quartz tip attachment</td>
<td>2 cm</td>
<td>4 mm</td>
<td>5251</td>
<td></td>
</tr>
</tbody>
</table>

* Diameter of the light output area
Intended use / Indications for use

The laser probe is an electrical device that is intended exclusively for use in medical practices and clinics and may only be operated under constant supervision. Federal law restricts this device to sale by or on the order of a physician.

The laser may be operated only by a trained physician or under the supervision of a trained physician. Any person who uses the device must be instructed in the handling of the device, the dangers associated with laser radiation, and compliance with applicable national accident prevention regulations and IEC 60825-1, IEC 60601-22 and CAN/CSA Z386-08.

Indications

These laser probes are intended to emit energy in the infrared spectrum to provide topical heating for the purposes of elevating tissue temperature when heat is indicated for the temporary relief of minor muscle and joint pain and stiffness, for the temporary relief of minor joint pain associated with arthritis, to temporarily increase local blood circulation where applied and the relaxation of muscles:

<table>
<thead>
<tr>
<th>Model</th>
<th>Wavelength</th>
<th>Power output</th>
</tr>
</thead>
<tbody>
<tr>
<td>CW single probe 50 mW Model 510 A</td>
<td>785 nm</td>
<td>max. 50 mW</td>
</tr>
<tr>
<td>CW single probe 500 mW Model 511 A</td>
<td>810 nm</td>
<td>max. 500 mW</td>
</tr>
<tr>
<td>CW single probe 200 mW Model 512 A</td>
<td>670 nm</td>
<td>max. 200 mW</td>
</tr>
<tr>
<td>CW single probe 150 mW Model 514 A</td>
<td>638 nm</td>
<td>max. 150 mW</td>
</tr>
<tr>
<td>CW multi-cluster probe Model 517 B</td>
<td>785 nm 655 nm</td>
<td>8 x max. 55 mW 4 x max. 40 mW</td>
</tr>
<tr>
<td>CW multi-cluster probe cuff Model 518 A</td>
<td>785 nm 655 nm</td>
<td>8 x max. 55 mW 4 x max. 40 mW</td>
</tr>
</tbody>
</table>
Contraindications / Limitations
We advise against the irradiation of the following organs and areas:

- Eyes
- Areas near the thyroid gland and other endocrine glands
- Testicular region
- Epiphyseal region in children
- Open fontanel
- Fetuses or in the area above the uterus of pregnant women
- Dark, pigmented or colored skin, regions with dark hair
- No irradiation of the head area in patients with (a tendency to) epilepsy

In addition, we advise against treatment of patients with the following indications:

- Cytostatic immunosuppression
- Tumor/cancer patients

Recommended treatment time

<table>
<thead>
<tr>
<th>Model</th>
<th>Treatment time to achieve a skin temperature of 40 – 45 °C</th>
<th>Recommended treatment time</th>
</tr>
</thead>
<tbody>
<tr>
<td>CW single probe 50 mW Model 510 A</td>
<td>12 min</td>
<td>22 min</td>
</tr>
<tr>
<td>CW single probe 500 mW Model 511 A</td>
<td>3 min</td>
<td>13 min</td>
</tr>
<tr>
<td>CW single probe 200 mW Model 512 A</td>
<td>5 min</td>
<td>15 min</td>
</tr>
<tr>
<td>CW single probe 150 mW Model 514 A</td>
<td>9 min</td>
<td>19 min</td>
</tr>
<tr>
<td>CW multi-cluster probe Model 517 B</td>
<td>9 min</td>
<td>19 min</td>
</tr>
<tr>
<td>CW multi-cluster probe cuff Model 518 A</td>
<td>9 min</td>
<td>19 min</td>
</tr>
</tbody>
</table>
Checking for transport damage
Inspect your probe for damage that may have occurred during transport, i.e., whether the housing components or the probe cable have visible damage. If your probe has a display, remove the protective film and test the display. If you discover any damage, do not operate your probe. Instead, contact your distributor.

Self-test
Your probe does not require a particular start-up procedure. You can connect the probe to the control unit using the probe cable at any time. However, if you are operating your Physiolaser for the first time, read the operating instructions for your control unit prior to connecting the probe.

Your probe will perform a self-test when you turn on the control unit with the probe connected or if you connect the probe to a control unit that is already on. The status indicator flashes briefly during this test.

The status indicator flashes during the self-test.

Automatic probe detection
The Physiolaser will detect a connected probe automatically and the corresponding symbol will be displayed on the therapy selection screen.

The software for your control unit may need to be updated if a corresponding symbol does not appear. This may occur if you purchased the new probe for a pre-existing control unit. If this is the case, an SD card is provided with the probe to help you perform the update yourself. Instructions are supplied with the probe. Please contact your distributor.
The two laser sockets on the Physiolaser let you use two probes at the same time.

Both laser sockets are shown on the therapy selection screen. "Laser 1" corresponds to the left socket and "Laser 2" corresponds to the socket on the right.

**Probe symbols**

In addition to single probes and multi-cluster probes, your control unit can also control the LightNeedle probe and the Photonic satellite laser scanner. The different probe types can be easily distinguished by different symbols.

These instructions do not describe the special functions of the LightNeedle probe or the Photonic satellite laser scanner. There are separate operating instructions each for the LightNeedle and the Photonic satellite.
Remote functions
Your probe is operated primarily via the touchscreen on your Physiolaser. Read the instructions for your control unit.

These instructions only describe the functions specific to the probes.

For ease of use, all probes are equipped with buttons for selecting essential program functions directly from the probe.

Probe display
A two-line status display provides information on the set parameters and program sequences.

If your Physiolaser is currently in "Stand by" mode, this will also be indicated on the probe display. The buttons on the probe are inactive in this state.

The remote functions can be used once you switch to the therapy selection screen on your control unit by pressing "Ready".

Changing the contrast
If the probe display is difficult to read (e.g., in bright sunlight), you can change the contrast in the "Setup Laser" menu on your control unit.

<table>
<thead>
<tr>
<th>Setup Laser 1</th>
<th>Setup Laser 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power [mW]</strong></td>
<td><strong>Keep [sec]</strong></td>
</tr>
<tr>
<td>150</td>
<td>15</td>
</tr>
<tr>
<td><strong>Energy [J]</strong></td>
<td><strong>Contrast</strong></td>
</tr>
<tr>
<td>22.5</td>
<td>-</td>
</tr>
<tr>
<td><strong>Time [mm:ss]</strong></td>
<td>+</td>
</tr>
<tr>
<td>05:00</td>
<td></td>
</tr>
<tr>
<td><strong>Duty [%]</strong></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td></td>
</tr>
<tr>
<td><strong>Therapy</strong></td>
<td>store single</td>
</tr>
<tr>
<td></td>
<td>store for all</td>
</tr>
<tr>
<td></td>
<td>restore defaults</td>
</tr>
</tbody>
</table>

"+" and "+" change the contrast on the probe display.
**Button functions on single probes**

1. **Start/Stop**
   - Start therapy; stop therapy

2. **Right arrow**
   - Change to next program group, program series, or next therapy program

3. **Left arrow**
   - Change to previous program group, program series, or previous therapy program

4. **Group**
   - Change from program groups to program series and therapy programs

**Buttons on CW multi-cluster probes**

1. **Left arrow**
   - Change to previous program group, program series, or previous therapy program

2. **Right arrow**
   - Change to next program group, program series, or next therapy program

3. **Group**
   - Change from program groups to program series and therapy programs

4. **Start/Stop**
   - Start therapy; stop therapy
Selecting therapy programs
You can select the desired therapy program on your probe without touching the screen of your control unit. You can scroll through the program groups and series as well as change between the individual programs.

A red frame on the therapy selection screen provides orientation when navigating using the buttons.

Navigating using buttons
Use the Group button to switch between the levels program group, program series, and therapy programs.

Use the arrow buttons to navigate within a level.

The display on your control unit indicates that the "Continuous Beam" therapy program in the "Basis" programs series has been selected for the attached probe.
Therapy mode

You can start therapy at any time from the therapy selection mode by briefly pressing the "Start/Stop" button.

This is also possible if another probe has been selected or if another probe is already in therapy mode. In both cases, the most recently selected therapy program is started.

Once you press the Start button, a two-second signal tone will sound and the status LED will flash until the onset of the therapy mode. During this time, you can still press the "Start/Stop" button to end the program, for example if you have forgotten to put on protective eyewear.

During the two-second period, the 50 mW single probe emit a visible but harmless pilot beam that helps you find the exact therapy location.

The status indicator remains on during therapy. The end of therapy is indicated by a long signal tone. The current therapy program can be stopped at any time by pressing the "Start/Stop" button.

All buttons are active in therapy mode so you can also change the program during a treatment.

During treatment, the patient and personnel must wear SPERIAN 3199-21160RJ laser protective eyewear conforming to European standard EN 207. If the user cannot find this model of eyewear he must use an eyewear with following specifications: 405nm D LB4, 650nm D LB2, 655nm D LB3, 670nm D LB4, 785nm D LB2, 810nm D LB5, 905nm DIR LB6.

When you press the "Start/Stop" button, the status LED flashes until the onset of the therapy mode. The status indicator remains on during therapy.

Stop the current therapy program using the Start/Stop button.
Caution when using the 500 mW CW single probe

The tip of the 500 mW CW single probe may overheat if operated at full power for an extended treatment time.

As a result, this probe must never be used without an attachment or applicator. Otherwise, the probe tip may become too hot and cause burns on skin contact.

The 500 mW CW single probe should not be operated at full power for more than five minutes. For longer treatments at full power, pause treatment for at least one minute after every five minutes of treatment.
**Battery life**

With the compact Physiolaser olympic you can also use your probe in battery mode. Many different factors determine how long you can actually perform treatment in practice with a full battery. The ambient temperature as well as the selected program and the power output all play a role.

We have conducted a test run for both probe types and documented the results below. The testing conditions were: battery fully charged at the start, with treatments of 10 minutes each at room temperature.

**CW multi-cluster probe in CW mode**

- **1.3 hours**
- 8 treatments can be performed
- Therapy time: 10 minutes
- Power output: 600 mW
- Therapy program: CW

**500 mW CW single probe at 10 kHz**

- **1.5 hours**
- 9 treatments can be performed
- Therapy time: 10 minutes
- Power output: 500 mW
- Therapy program: CW
Defective laser diodes

Please also read the chapter "Error messages" in the operating instructions for your Physiolaser.

Error messages only appear on the probe itself in case of defective laser diodes.

The therapy program can no longer be started or it is automatically stopped (in an error occurs during ongoing therapy).

Please contact your distributor for repair.

The "X" stands for the number of the defective diode.
Care and maintenance

Cleaning and disinfection
Unplug the power cord of your control unit before beginning any cleaning or maintenance.

Note that harsh or caustic agents (e.g., acetone) must not be used for regular cleaning of the plastic components. Prevent moisture from entering the housing. It is best to use a damp cloth for cleaning.

To disinfect the device, use a soft cloth that has been dampened with a mild disinfectant.

Always use a damp cloth for cleaning and disinfection. Never flush water over the device. Do not use solvents!

If you use an applicator, disinfect the applicator after each treatment in order to minimize the risk of patient infection.

Calibration and safety check
Your laser probe does not contain any user-serviceable internal parts or components. There is thus no reason to open the device’s housing.

To comply with IEC 60825-1 (Safety of laser products), your Physiolaser olympic, along with all probes and accessories, must be inspected and recalibrated by the manufacturer at least once annually. Please contact your distributor.
## Technical data

**Class 3B laser therapy device**

- Absolute uncertainty of laser power measurement: 20%
- Modulation frequency: 1 Hz to 99999 Hz
- Accuracy of the electric conductance measurement: +/- 10%

## Operating conditions

- Ambient temperature: +10°C to +30°C
- Relative humidity: 30% to 75%
- Air pressure: 700 hPa to 1060 hPa

## Transport and storage

- Ambient temperature: -20°C to +40°C
Single probes

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>Power output</th>
<th>Laser type</th>
<th>NOHD*</th>
<th>Beam divergence</th>
</tr>
</thead>
<tbody>
<tr>
<td>CW single probe 50 mW Model 510 A</td>
<td>785 nm</td>
<td>Max. 50 mW</td>
<td>Continuous wave (CW)</td>
<td>0.10 m</td>
</tr>
<tr>
<td>CW single probe 150 mW Model 514 A</td>
<td>638 nm</td>
<td>Max. 150 mW</td>
<td>Continuous wave (CW)</td>
<td>0.08 m</td>
</tr>
<tr>
<td>CW single probe 200 mW Model 512 A</td>
<td>670 nm</td>
<td>Max. 200 mW</td>
<td>Continuous wave (CW)</td>
<td>0.14 m</td>
</tr>
<tr>
<td>CW single probe 500 mW Model 511 A</td>
<td>810 nm</td>
<td>Max. 500 mW</td>
<td>Continuous wave (CW)</td>
<td>0.29 m</td>
</tr>
</tbody>
</table>

* Safety margin (NOHD): The distance at which the radiation intensity or radiation is equal to the corresponding limit for the maximum permissible radiation of the cornea (MPE = maximum permissible exposure).

Multi-cluster probes

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>Power output</th>
<th>Laser type</th>
<th>NOHD*</th>
<th>Beam divergence</th>
</tr>
</thead>
<tbody>
<tr>
<td>CW multi-cluster probe Model 517 B</td>
<td>785 nm</td>
<td>8 x max. 55 mW</td>
<td>Continuous wave (CW)</td>
<td>0.10 m</td>
</tr>
<tr>
<td></td>
<td>655 nm</td>
<td>4 x max. 40 mW</td>
<td></td>
<td>0.09 m</td>
</tr>
<tr>
<td>CW multi-cluster probe cuff Model 518 A</td>
<td>785 nm</td>
<td>8 x max. 55 mW</td>
<td>Continuous wave (CW)</td>
<td>0.10 m</td>
</tr>
<tr>
<td></td>
<td>655 nm</td>
<td>4 x max. 40 mW</td>
<td></td>
<td>0.09 m</td>
</tr>
<tr>
<td>CW multi-cluster probe Model 508</td>
<td>655 nm</td>
<td>12 x max. 50 mW</td>
<td>Continuous wave (CW)</td>
<td>0.09 m</td>
</tr>
<tr>
<td>Wave-length</td>
<td>Power output</td>
<td>Laser type</td>
<td>NOHD*</td>
<td>Beam divergence</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------</td>
<td>------------</td>
<td>-------</td>
<td>-----------------</td>
</tr>
<tr>
<td>CW multi-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cluster probe</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model 509</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>810 nm</td>
<td>1 x max.500 mW</td>
<td>Continuous wave (CW)</td>
<td>&gt; 10 m</td>
<td>0.003 rad</td>
</tr>
<tr>
<td>638 nm</td>
<td>1 x max.150 mW</td>
<td></td>
<td>&gt; 10 m</td>
<td>0.003 rad</td>
</tr>
</tbody>
</table>

* Safety margin (NOHD): The distance at which the radiation intensity or radiation is equal to the corresponding limit for the maximum permissible radiation of the cornea (MPE = maximum permissible exposure).

All probes are equipped with a red LED that functions as the status indicator.
CW multi-cluster probe: Position of labels on the device

1. Laser warning label
2. Type label
3. Laser warning labels
4. Rating label

CW multi-cluster probe: Explanation of symbols and labels on the device

Type label

Probe type 517B
Pmax: 8 x 55 mW / 785 nm + 4 x 40 mW / 655 nm
SN: 11517B-18 10-2011
Reimers & Janssen GmbH Fabrikstraße 22 D-79183 Waldkirch

Rating and warning labels

Rating label
4 x 40 mW / 655 nm cw
8 x 55 mW / 785 cw
EN 60825-1:2007

Laser warning labels

1. Laser beam exit aperture
2. Avoid direct exposure to beam

Signs on the type label

The device complies with European directives applicable to the product.

IPX0
No rating against harmful ingress of water

Observe the accompanying documentation.

Type B applied part

Date of production
Month - Year

04-2011
Single probes: Position of labels on the device

1. Laser warning label on top
2. Laser warning label on bottom
3. Rating label
4. Type label

Single probes: Explanation of symbols and labels on the device

Type label

[Image of type label]

Signs on the type label

- CE 0123: The device complies with European directives applicable to the product.
- IPX0: No rating against harmful ingress of water
- Observe the accompanying documentation.
- Type B applied part
- Date of production: 04-2011 Month - Year

Rating and warning labels

[Image of rating and warning labels]

- Pmax 500 mW  λ = 810 nm cw
- EN 60825-1:2007
- Rating label
- Laser warning labels

- Laser beam exit aperture
- Laser category 3B
- Avoid direct exposure to beam
Warranty and disposal

Warranty
The manufacturer’s warranty is valid for 24 months. The manufacturer is only responsible for the features as warranted by the operating instructions if the device has been operated carefully and in accordance with the operating instructions.

Readjustment, calibration, and maintenance or repairs may only be performed by the distributor; otherwise the warranty is void. Any alterations to the device by unauthorized third parties void the warranty. The manufacturer guarantees spare parts availability for a period of ten years after the date of purchase.

Disposal
Due to the hazards of laser radiation, probes and control units may not be disposed of as normal electronic waste. The devices must be sent to the manufacturer for decommissioning and disposal.
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