

Klas-P6

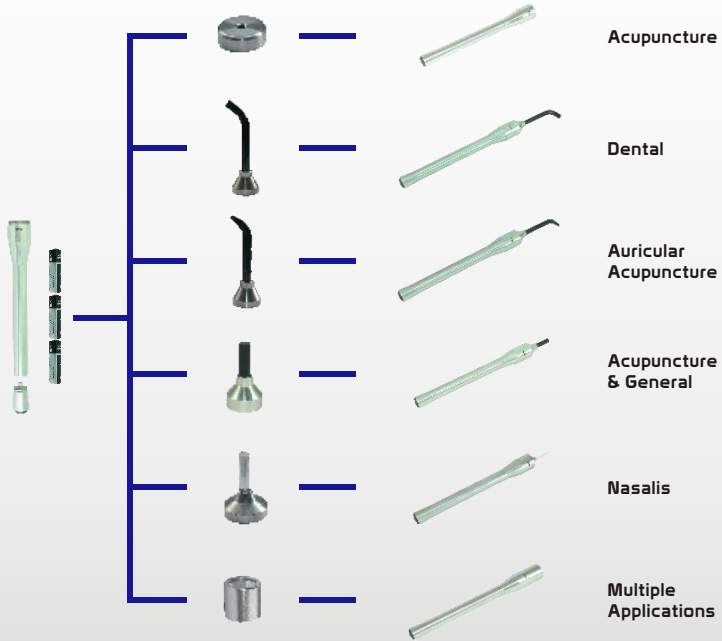
6-in-1 LLLT Unit



User's Guide



6-in-1 LLLT Unit



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Getting started

Install your Klas with the included batteries and begins to get started low level laser therapy (LLLT).

Using Klas

Klas can be used for treatment of diseases and conditions, follow the recommended dosage and treatment time to get the best efficacy. You can also find new information about using Klas on the web www.konftec.com.

Using the battery

- ☑ Use the battery that came with your Klas or any qualified standard battery or rechargeable battery.
- ☑ If you do not use your Klas for a period of time, be sure to take battery out from your Klas.

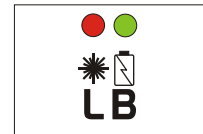
Klas-P6 LEDs' indication

Klas-P6 emits the infrared laser, which is invisible. For safety operation, two LED indicators are equipped:

Red LED (L) – Laser output

Green LED (B) – Battery power

If **Red** LED (L) is OFF and **Green** LED (B) is ON, please replace the batteries.



Specifications and Treatment Time

Treatment Time Calculation Table					
Optic Cap-A		Laser beam spot size:		0.13 cm ²	
Dose (J/cm ³)	Depth of Tissue (cm)	Energy Loss Factor	Treatment Time (second)		
			Wavelength	808nm	
			Model No.	Klas - P62	Klas-P64
			LD Power (mW)	260	460
			End Power (mW)	208	368
			Power Density (W/cm ²)	1.60	2.83
3 J/cm ²	Surface	1		1.9	1.1
3 J/cm ³	0.5	0.6772		3	2
	1	0.4586		4	2
	1.5	0.3105		6	3
	2	0.2103		9	5
	2.5	0.1424		13	7
	3	0.0964		19	11
	3.5	0.0653		29	16
	4	0.0442		42	24
	4.5	0.0299		63	35
	5	0.0203		92	52



Specifications and Treatment Time

Treatment Time Calculation Table					
Optic Cap-C Laser beam spot size: 0.5 cm ²					
Dose (J/cm ³)	Depth of Tissue (cm)	Energy Loss Factor	Treatment Time (second)		
			Wavelength	808nm	
			Model No.	Klas P62	Klas P64
			LD Power (mW)	260	460
			End Power (mW)	200	370
Power Density (W/cm ²)	0.40	0.74			
1 J/cm ²	Surface	1		2.5	1.4
1 J/cm ³	0.5	0.6772		4	2
	1	0.4586		5	3
	1.5	0.3105		8	4
	2	0.2103		12	6
	2.5	0.1424		18	9
	3	0.0964		26	14
	3.5	0.0653		38	21
	4	0.0442		57	31
	4.5	0.0299		84	45
	5	0.0203		123	67



Specifications and Treatment Time

Treatment Time Calculation Table					
Optic Cap-D Laser beam spot size: 0.5 cm ²					
Dose (J/cm ³)	Depth of Tissue (cm)	Energy Loss Factor	Treatment Time (second)		
			Wavelength	808nm	
			Model No.	Klas P62	Klas P64
			LD Power (mW)	260	460
			End Power (mW)	200	370
Power Density (W/cm ²)	0.40	0.74			
1 J/cm ²	Surface	1		2.5	1.4
1 J/cm ³	0.5	0.6772		4	2
	1	0.4586		5	3
	1.5	0.3105		8	4
	2	0.2103		12	6
	2.5	0.1424		18	9
	3	0.0964		26	14
	3.5	0.0653		38	21
	4	0.0442		57	31
	4.5	0.0299		84	45
	5	0.0203		123	67



Specifications and Treatment Time

Treatment Time Calculation Table					
Optic Cap-E Laser beam spot size: 0.07 cm ²					
Dose (J/cm ³)	Depth of Tissue (cm)	Energy Loss Factor	Treatment Time (second)		
			Wavelength	808nm	
			Model No.	Klas P62	Klas P64
			LD Power (mW)	260	460
			End Power (mW)	180	320
Power Density (W/cm ²)	2.57	4.57			
3 J/cm ²	Surface	1		1.2	0.7
3 J/cm ³	0.5	0.6772		2	1
	1	0.4586		3	1
	1.5	0.3105		4	2
	2	0.2103		6	3
	2.5	0.1424		8	5
	3	0.0964		12	7
	3.5	0.0653		18	10
	4	0.0442		26	15
	4.5	0.0299		39	22
	5	0.0203		57	32



Specifications and Treatment Time

Optic Cap-N Laser beam: End Dispersion		
Wavelength	808nm	
<i>Model No.</i>	<i>Klas-P62</i>	<i>Klas-P64</i>
LD Power (mW)	260	460
End Power (mW): Dispersion	208	368



Specifications and Treatment Time

Treatment Time Calculation Table					
Optic Cap-S Laser beam spot size: 3 cm ²					
Dose (J/cm ³)	Depth of Tissue (cm)	Energy Loss Factor	Treatment Time (minute)		
			Wavelength	808nm	
			Model No.	Klas P62	Klas P64
			LD Power (mW)	260	460
			End Power (mW)	104	184
Power Density (W/cm ²)	0.035	0.061			
3 J/cm ²	Surface	1		87 sec.	49 sec.
3 J/cm ³	0.5	0.6772		2	1
	1	0.4586		3	2
	1.5	0.3105		5	3
	2	0.2103		7	4
	2.5	0.1424		10	6
	3	0.0964		15	8



About operating and storage temperatures

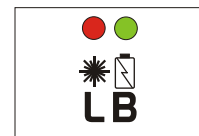
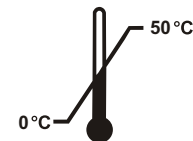
- ☑ Operate your Klas in a place where the temperature is always between 0 and 50° C (32 to 122° F).
- ☑ Store your Klas in a place where the temperature is always between -20 and 85° C (-4 to 185° F).

Troubleshooting

My Klas won't turn on

- ☑ Make sure Klas's power switch is on.
- ☑ If that doesn't work, check the position of battery in Klas.
- ☑ If that doesn't work, loosen the bottom cap and fasten again.
- ☑ If both LEDs' do not light, replace the new batteries.

If that doesn't work, contact your local sales office.



Learning more, service and support

There is a wealth of information about using Klas on the Web. For the latest information on Klas service and support information go to www.konftec.com

Obtaining warranty service

If the product appears to be damaged or does not function properly, please follow the advice in this booklet, and the online resources. If the unit still does not function, go to www.konftec.com for instructions on how to obtain warranty service.

Safety

Important safety instructions

Follow all instructions and warnings dealing with your Klas.



Warning

- Avoid direct eye exposure to the laser beam.
- Operation of this device, must always be supervised by an adult.



Cleaning

Follow these general rules when cleaning the outside of your Klas and its components:

- Use a damp, soft, lint-free cloth.
- Use alcohol to clean the optic glass.
- Don't use aerosol sprays, solvents or abrasives.



Avoid direct sunlight

Protect your Klas from long time direct sunlight.



Do not make repairs yourself

No user-serviceable parts are inside.

About handling

Your Klas may be damaged by improper storage or handling. Be careful not to drop your Klas when treating or transporting the device.



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