

Klas-P5

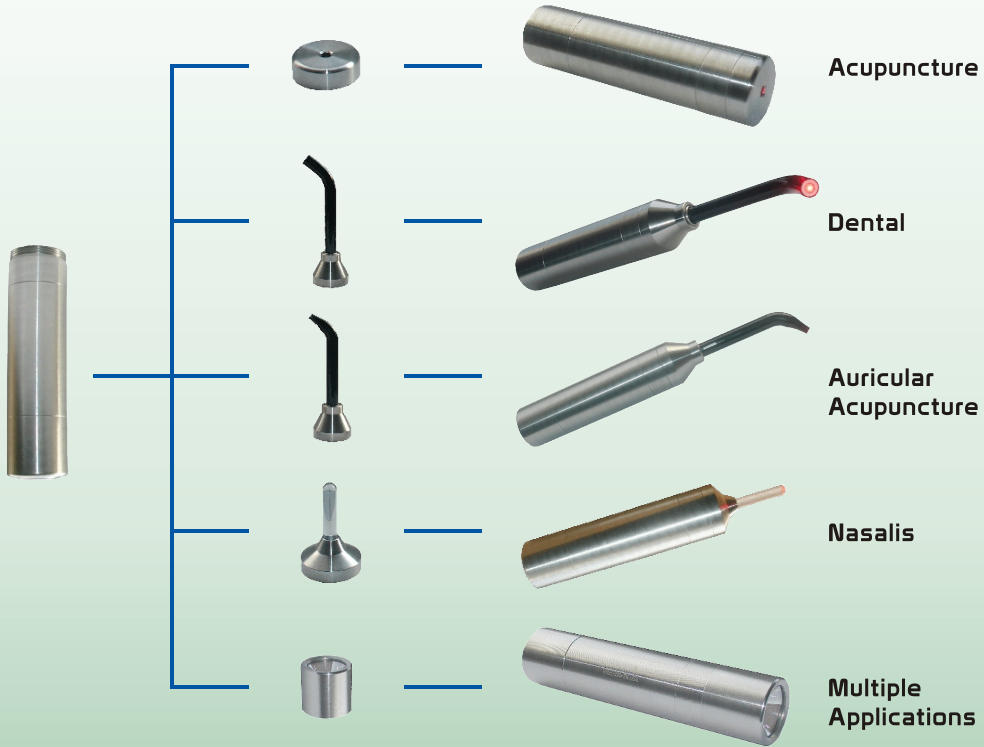
5-in-1 LLLT Unit



User's Guide



5-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

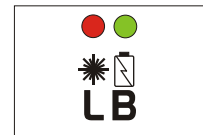
Klas can be used for treatment of diseases and conditions, follow the recommended dosage and treatment time to get the best efficacy. You can also find new information about using Klas on the web www.konftec.com.

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-x81 LEDs' indication

- ✓ Klas-x81 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

Klas-A Laser Acupuncture Unit

Klas-A50 : 660nm/50mW

Klas-A79 : 780nm/90mW

Klas-A81 : 808nm/110mW

Laser Beam Spot Size : 0.13 cm²

Power Supply : 3 x AAA Batteries



Laser Dosage Calculation				
Dose (J/cm ³)	Depth of Acupoint (cm)	Treatment Time (Minutes)		
		<i>Klas-A50</i>	<i>Klas-A79</i>	<i>Klas-A81</i>
		50 mW	90 mW	110 mW
6	0.5	6	4	3
	1	23	13	11
	1.5	28	16	13
	2	34	19	16
	2.5		22	18
	3		25	21
	3.5		28	23
	4		32	26
	4.5		35	28
	5		38	31
6		44	36	

Treatment time is calculated by Monte Carlo Simulation method

Specifications

Klas-E

Auricular Laser Acupuncture Unit

Klas-E50 : 660nm/40mW

Klas-E79 : 780nm/70mW

Klas-E81 : 808nm/90mW

Laser Beam Spot Size : 0.07 cm²

Power Supply : 3 x AAA Batteries

Laser Dosage Calculation				
Dosage (J/cm ²)	Depth of Acupoint (cm)	Treatment Time (Seconds)		
		<i>Klas-E50</i>	<i>Klas-E79</i>	<i>Klas-E81</i>
		40 mW	70 mW	90 mW
1	0.5	3	2	2
2		5	3	3
3		8	5	4
4		10	6	5
5		13	8	6
6		15	9	7



Specifications

Klas-D

Dental LLLT Unit

Klas-D50 : 660nm/40mW

Klas-D79 : 780nm/70mW

Klas-D81 : 808nm/90mW

Laser Beam Spot Size : 0.5 cm²

Power Supply : 3 x AAA Batteries

Laser Dosage Calculation			
Dosage (J/cm ²)	Treatment Time (Seconds)		
	<i>Klas-D50</i>	<i>Klas-D79</i>	<i>Klas-D81</i>
	40 mW	70 mW	90 mW
1	25	15	12
2	50	30	24
3	75	45	36
4	100	60	48
5	125	75	60
6	150	90	72



Specifications

Klas-N50

Nasalis LLLT Unit

Wavelength : 660nm

Output Power : 50mW (without fiber rod)

< 5mW (with fiber rod; end dispersion)

Power Supply : 3 x AAA Batteries



Specifications

Klas-S

Multiple Treatments LLLT Unit

Klas-S50 : 660nm/30mW

Klas-S79 : 780nm/50mW

Klas-S81 : 808nm/55mW

Laser Contact Area : 3 cm²

Power Supply : 3 x AAA Batteries



Laser Dosage Calculation			
Dosage (J/cm ²)	Treatment Time (Minutes)		
	<i>Klas-S50</i>	<i>Klas-S79</i>	<i>Klas-S81</i>
	30 mW	50 mW	55 mW
1	2	1	1
2	4	2	2
3	5	3	3
4	7	4	4
5	9	5	5
6	10	6	6



About operating and storage temperatures

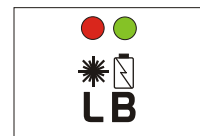
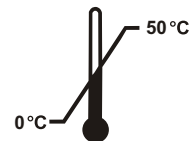
- ☑ Operate your Klas in a place where the temperature is always between 0 and 50° C (32 to 122° F).
- ☑ Store your Klas in a place where the temperature is always between -20 and 85° C (-4 to 185° F).

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.
- ☑ For Klas-x81 only, 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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