

Klas-L

Multiple Treatments LLLT Unit



User's Guide



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Getting started

Install your Klas with the included battery 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.

Specifications

Klas-L

Multiple Treatments LLLT Unit

Klas-L05---660nm/5mW

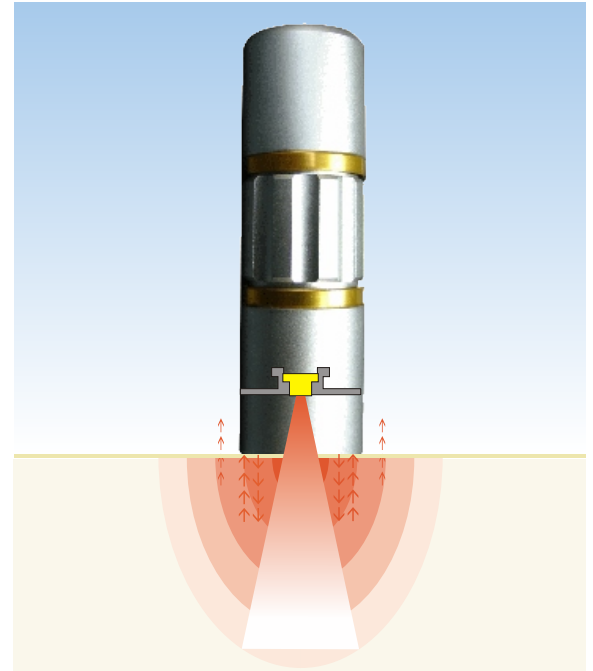
Klas-L20---660nm/20mW

Klas-L50---660nm/50mW

Battery-----CR123A

Enclosure---IP65 (NEMA 6)

Laser Dosage Calculation				
Dosage (J/cm ²)	Contact Area (cm ²)	Treatment Time (minutes)		
		Klas-L50	Klas-L20	Klas-L05
1	2	40 sec.	1.7	7
2		1.3	3.3	13
3		2.0	5.0	20
4		2.7	6.7	27
5		3.3	8.3	33
6		4.0	10.0	40



Therapy Protocol

Disease / Condition	Therapy Time (Minutes)		Frequency	Dosage (J/cm ²)
	Klas-L50 (2 cm ²)	Klas-L20 (2 cm ²)		
Acne Vulgaris				
Facial Acne	5	13	2~3	8
Neckline Acne	7	17	2~3	10
Back Acne	8	20	2~3	12
Aesthetic				
Age Spot	8	20	2~3	12
Cholasma	8	20	2~3	12
Facial Anti-aging: General Skin Conditioning	5	13	1~2	8
Scar: Fresh	8	20	2~3	12
Stretch Mark (Melasma): Fresh	8	20	2~3	12
Wrinkle and Fine Lines	5	13	2~3	8
*Therapeutic windows range from typically $\pm 50\%$ of given values.				
**The given values are calculated by point or effective treatment area (2 cm²).				

Therapy Protocol

Disease / Condition	Therapy Time (Minutes)		Frequency	Dosage (J/cm ²)
	Klas-L50 (2 cm ²)	Klas-L20 (2 cm ²)		
Pain Relief				
Achill Bursitis	5	13	3~7	8
Acute & Chronic Joint Pain; Finger	4	10	3~7	6
Acute & Chronic Joint Pain; Toe	4	10	3~7	6
Acute & Chronic Joint Pain; Wrist	7	17	3~7	10
Acute & Chronic Joint Pain; Elbow	7	17	3~7	10
Calcaneal Spur	7	17	3~7	10
Carpal Tunnel Syndrome (CTS)	8	20	3~7	12
Herpes Simplex (HSV1)	2	5	2/Day	3
Pain Associated with Facial Palsy	5	13	3~7	8
Plantar Fasciitis- Heel Pain	8	20	3~7	12
Post Operative Tissue Pain	5	13	1~2/Day	8
*Therapeutic windows range from typically $\pm 50\%$ of given values.				
**The given values are calculated by point or effective treatment area (2 cm²).				

Therapy Protocol

Disease / Condition	Therapy Time (Minutes)		Frequency	Dosage (J/cm ²)
	Klas-L50 (2 cm ²)	Klas-L20 (2 cm ²)		
Skin Diseases				
Allergic Rashes	2	5	2~3	3
Aphthous Ulcers & Sore Gums	2	5	2~3	3
Burn & Related Wounds	3	8	1~3/day	5
Cellulitis	5	13	3~7	8
Couperose (mild)	2	5	2~3	3
Dermatitis, Allergic	2	5	2~3	3
Dermatitis, Atopic	2	5	2~3	3
Dermatitis, Contact	2	5	2~3	3
Eczema	2	5	2~3	3
Hypertrophic Cicatrix	5	13	3	8
Insect Bites	2	5	1~2/day	3
Pressure Sore	2	5	3~7	3
Psoriasis	5	13	2~3	8
Rosacea	3	8	3~7	5
Skin Eruption	2	5	2~3	3
Sunburn	2	5	2~3	3
Tinea Pedis	5	13	2~3	8
Vitiligo (Leukoderma)	5	13	2~3	8
Warts, Verruca	5	13	3	8
Wound, Operation Wound	5	13	1~3/day	8
Wound & Ulcers	3	8	1~3/day	5
*Therapeutic windows range from typically $\pm 50\%$ of given values.				
**The given values are calculated by point or effective treatment area (2 cm ²).				

Therapy Protocol

Disease / Condition	Therapy Time (Minutes)		Frequency Time/Week	Dosage (J/cm ²)
	Klas-L50 (2 cm ²)	Klas-L20 (2 cm ²)		
Respiratory Tract and Ear, Nose, Throat				
Rhinitis	5	13	3~7	8
Sinusitis	4	10	3~7	6
Tinnitus	17	NA	3~7	25
Other Symptoms and Prophylaxis				
Hemorrhoid	8	20	1/Day	12
Gingival and Periodontal Disease	2	5	1/Day	3
Oral Ulcer	4	10	1/Day	6
Edema	8	20	1/Day	12
Erectile Dysfunction	17	NA	2	25
*Therapeutic windows range from typically $\pm 50\%$ of given values.				
**The given values are calculated by point or effective treatment area (2 cm ²).				

About operating and storage temperatures

- ☑ Operate your Klas in a place where the temperature is always between 0 and 60° C (32 to 140° 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 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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UKL71101E