

# ***Klas-M***

## **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).

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## 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](http://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

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## *Klas-M*

### Multiple Treatments LLLT Unit

Klas-M05---660nm/5mW

Klas-M20---660nm/20mW

Klas-M50---660nm/50mW

Battery-----3 x AAA

Enclosure---IP65 (NEMA 6)

<b>Laser Dosage Calculation</b>				
<b>Dosage</b> (J/cm <sup>2</sup> )	<b>Contact Area</b> (cm <sup>2</sup> )	<b>Treatment Time (minutes)</b>		
		Klas-M50	Klas-M20	Klas-M05
1	3	1	2.5	10
2		2	5.0	20
3		3	7.5	30
4		4	10.0	40
5		5	12.5	50
6		6	15.0	60

# Therapy Protocol

Disease / Condition	Therapy Time (Minutes)		Frequency Time/Week	Dosage (J/cm <sup>2</sup> )
	Klas-M50 (3 cm <sup>2</sup> )	Klas-M20 (3 cm <sup>2</sup> )		
<b>Acne Vulgaris</b>				
Facial Acne	8	20	2~3	8
Neckline Acne	10	25	2~3	10
Back Acne	12	30	2~3	12
<b>Aesthetic</b>				
Age Spot	12	30	2~3	12
Cholasma	12	30	2~3	12
Facial Anti-aging: General Skin Conditioning	8	20	1~2	8
Scar: Fresh	12	30	2~3	12
Stretch Mark (Melasma): Fresh	12	30	2~3	12
Wrinkle and Fine Lines	8	20	2~3	8
<b>*Therapeutic windows range from typically <math>\pm 50\%</math> of given values.</b>				
<b>**The given values are calculated by point or effective treatment area (3 cm<sup>2</sup>).</b>				

# Therapy Protocol

Disease / Condition	Therapy Time (Minutes)		Frequency	Dosage
	Klas-M50 (3 cm <sup>2</sup> )	Klas-M20 (3 cm <sup>2</sup> )	Time/Week	(J/cm <sup>2</sup> )
<b>Pain Relief</b>				
Achill Bursitis	8	20	3~7	8
Acute & Chronic Joint Pain; Finger	6	15	3~7	6
Acute & Chronic Joint Pain; Toe	6	15	3~7	6
Acute & Chronic Joint Pain; Wrist	10	25	3~7	10
Acute & Chronic Joint Pain; Elbow	10	25	3~7	10
Calcaneal Spur	10	25	3~7	10
Carpal Tunnel Syndrome (CTS)	12	30	3~7	12
Herpes Simplex (HSV1)	3	8	2/Day	3
Pain Associated with Facial Palsy	8	20	3~7	8
Plantar Fasciitis- Heel Pain	12	30	3~7	12
Post Operative Tissue Pain	8	20	1~2/Day	8
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# Therapy Protocol

Disease / Condition	Therapy Time (Minutes)		Frequency Time/Week	Dosage (J/cm <sup>2</sup> )
	Klas-M50 (3 cm <sup>2</sup> )	Klas-M20 (3 cm <sup>2</sup> )		
<b>Skin Diseases</b>				
Allergic Rashes	3	8	2~3	3
Aphthous Ulcers & Sore Gums	3	8	2~3	3
Burn & Related Wounds	5	13	1~3/day	5
Cellulitis	8	20	3~7	8
Couperose (mild)	3	8	2~3	3
Dermatitis, Allergic	3	8	2~3	3
Dermatitis, Atopic	3	8	2~3	3
Dermatitis, Contact	3	8	2~3	3
Eczema	3	8	2~3	3
Hypertrophic Cicatrix	8	20	3	8
Insect Bites	3	8	1~2/day	3
Pressure Sore	3	8	3~7	3
Psoriasis	8	20	2~3	8
Rosacea	5	13	3~7	5
Skin Eruption	3	8	2~3	3
Sunburn	3	8	2~3	3
Tinea Pedis	8	20	2~3	8
Vitiligo (Leukoderma)	8	20	2~3	8
Warts, Verruca	8	20	3	8
Wound, Operation Wound	8	20	1~3/day	8
Wound & Ulcers	5	13	1~3/day	5
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# Therapy Protocol

Disease / Condition	Therapy Time (Minutes)		Frequency Time/Week	Dosage (J/cm <sup>2</sup> )
	Klas-M50 (3 cm <sup>2</sup> )	Klas-M20 (3 cm <sup>2</sup> )		
<b>Respiratory Tract and Ear, Nose, Throat</b>				
Rhinitis	8	20	3~7	8
Sinusitis	6	15	3~7	6
Tinnitus	25	NA	3~7	25
<b>Other Symptoms and Prophylaxis</b>				
Hemorrhoid	12	30	1/Day	12
Gingival and Periodontal Disease	3	8	1/Day	3
Oral Ulcer	6	15	1/Day	6
Edema	12	30	1/Day	12
Erectile Dysfunction	25	NA	2	25
<b>*Therapeutic windows range from typically <math>\pm 50\%</math> of given values.</b>				
<b>**The given values are calculated by point or effective treatment area (3 cm<sup>2</sup>).</b>				

## **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](http://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](http://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.



[www.konftec.com](http://www.konftec.com)

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