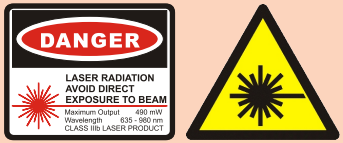
Aculas-AM-100X

Multi-channel Digital LLLT System



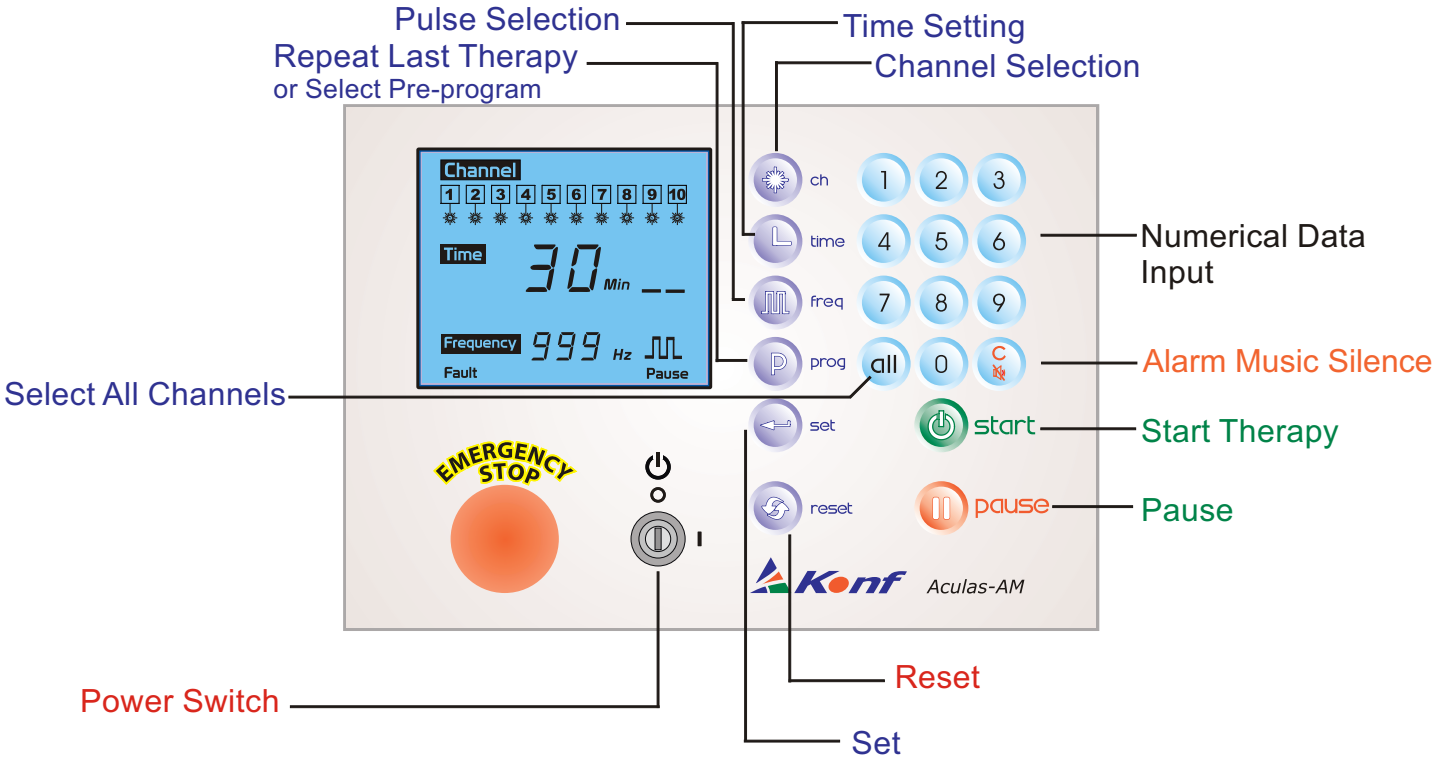
User's Guide

Konf

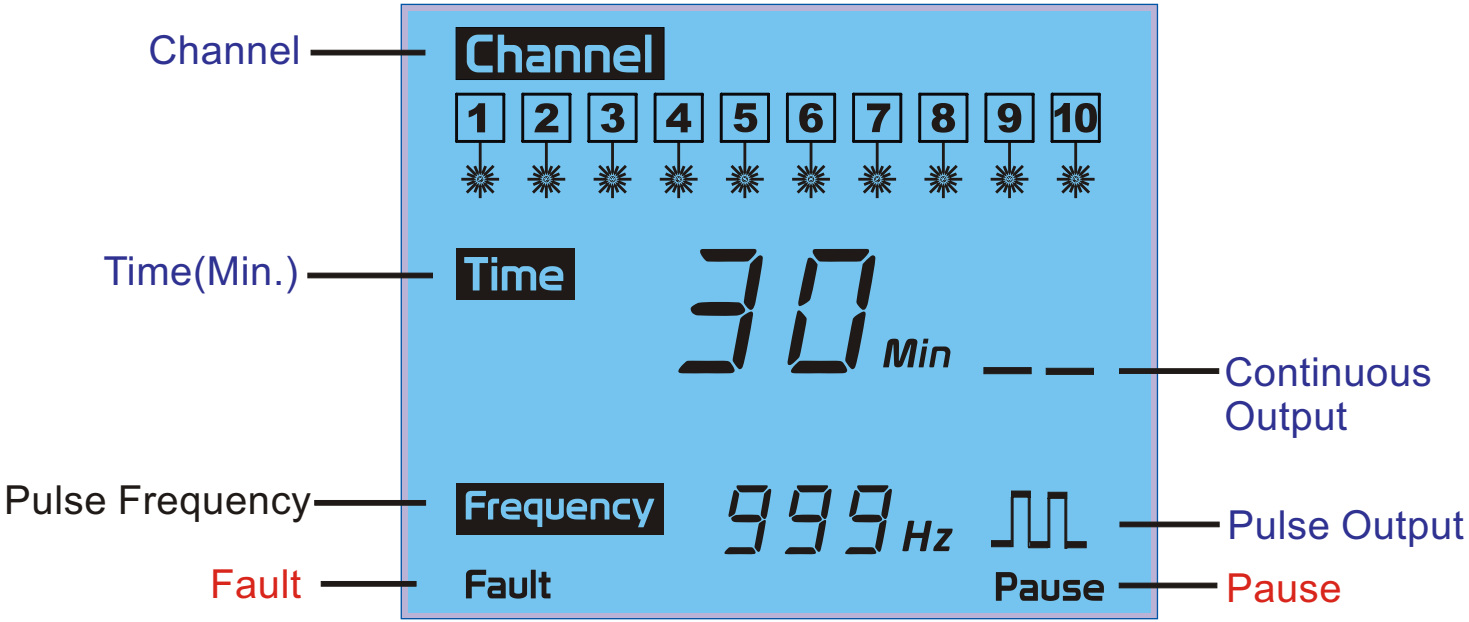
English

Front Panel	1
LCD Display	2
Rear Panel	3
Preparation Steps	4
Operation Steps	5
Using Aculas-AM	11
Tips and troubleshooting	12
Learning more, service and support	13
Safety and cleaning	14

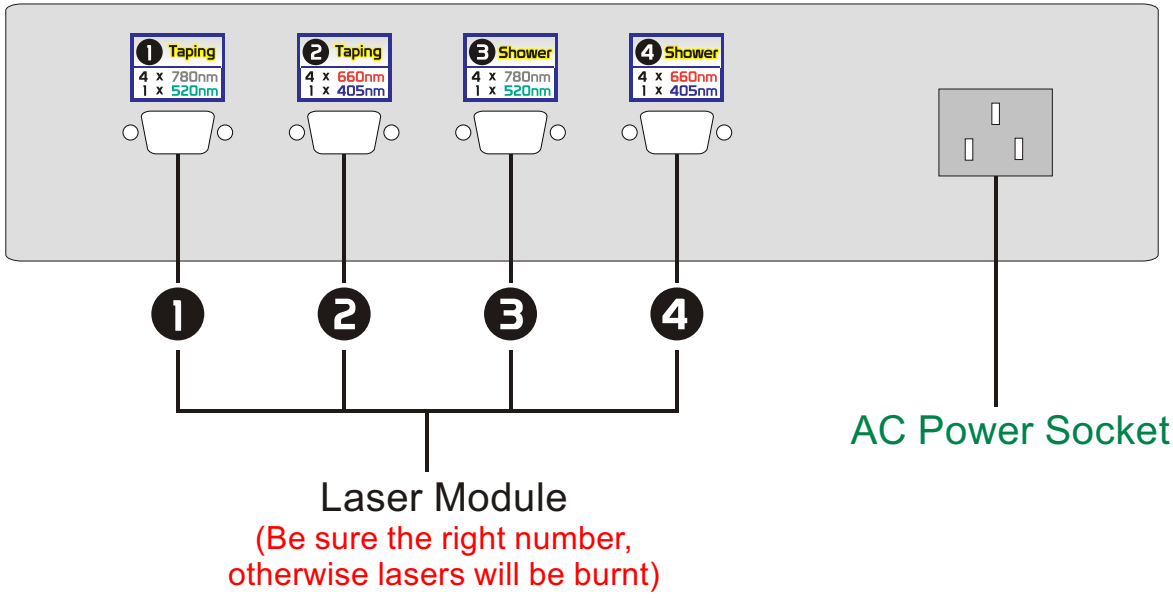
Front Panel


Pulse Selection
Repeat Last Therapy
or Select Pre-program
Time Setting
Channel Selection
Numerical Data Input
Alarm Music Silence
Start Therapy
Pause
Select All Channels
Power Switch
Reset
Set
Channel
1 2 3 4 5 6 7 8 9 10
Time
30 Min
Frequency
999 Hz
Fault
Pause
ch
time
freq
prog
set
reset
1 2 3
4 5 6
7 8 9
all 0
start
pause
EMERGENCY STOP
Konf
Aculas-AM

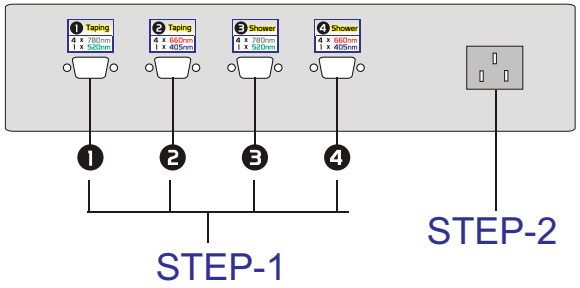
LCD Display


Channel
Channel
1 2 3 4 5 6 7 8 9 10
Time(Min.)
Time
30 Min
Continuous Output
Pulse Frequency
Frequency
999 Hz
Pulse Output
Fault
Fault
Pause
Pause

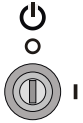
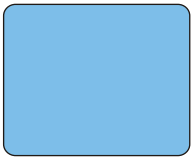
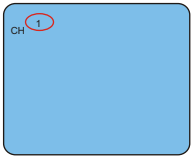
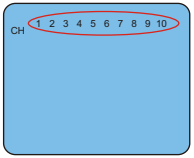
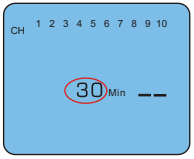
Rear Panel


1 Taping
4 x 780nm
1 x 520nm
2 Taping
4 x 660nm
1 x 405nm
3 Shower
4 x 780nm
1 x 520nm
4 Shower
4 x 660nm
1 x 405nm
1
2
3
4
AC Power Socket
Laser Module
(Be sure the right number,
otherwise lasers will be burnt)

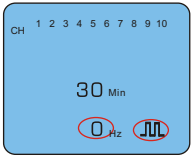
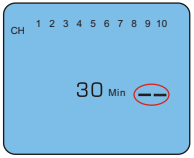
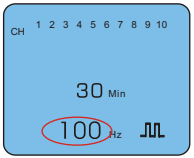
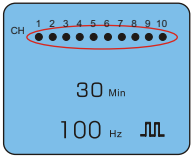
Preparation Steps

Preparation			Illustration
STEP	ACTION	DESCRIPTION	
1	Connect Laser Modules	Connect laser modules to rear panel tightly	
2	Connect Power	Connect AC power to rear panel	

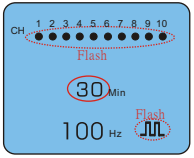
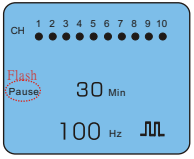
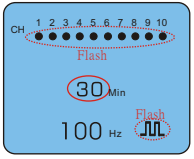
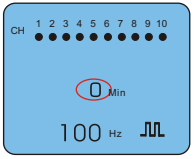
Operation Steps

OPERATION			LCD DISPLAY	REMARKS
STEP	ACTION	KEY IN		
1	Power ON			Backlite ON
2-a	Select Channels Combination	Ch. 1 Set 2 Set 3 Set		Select Others: 2, Set; 3, Set; ----- Note: Key-in Ch. Once only
2-b	Select All (10) Channels	Ch. ALL Set		
3	Time Setting	Time 3 0 Set		Time Setting: 1 ~ 60 Min.

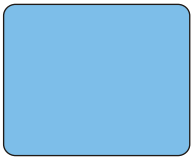
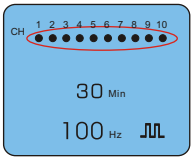
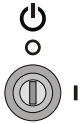
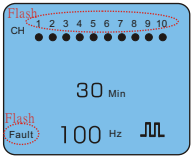
Operation Steps

OPERATION			LCD DISPLAY	REMARKS
STEP	ACTION	KEY IN		
4-a	Select Continuous Wave Output	No Need		
4-b	Select Pulse Output	Freq.		
5	Pulse Frequency Setting	9 9 9 Set		Setting Range: 1 ~ 999 Hz
6	Autos to Stand-by Mode after 3 Seconds	No Need		

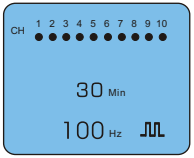
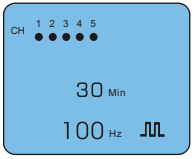
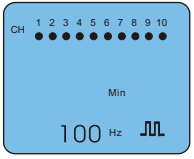
Operation Steps

OPERATION			LCD DISPLAY	REMARKS
STEP	ACTION	KEY IN		
7	Start Therapy	Start		
◎	Pause from Front Panel	Pause		
	Remote Pause			**Alert Music No.1**
	Alarm Music Silence	C		
◎	Restart after Pause	Start		
◎	Time Count to Zero			**Alert Music No.2 (Plays 15 Sec.)**

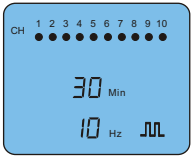
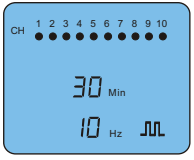
Operation Steps

OPERATION			LCD DISPLAY	REMARKS
STEP	ACTION	KEY IN		
◎	Reset All Parameters	Reset		
◎	Repeat the Last Therapy	Prog. Start		
◎	Power OFF			
★	**Fault**			**Alert Music No.3**

Program Setting

OPERATION			LCD DISPLAY	REMARKS Pre-progammed
STEP	ACTION	KEY IN		
◎	Execute Program-0	Prog. Start		CH.: Time: Hz:
◎	Execute Program-1	Prog. 1 Start		CH.: Time: Hz:
◎	Execute Program-2	Prog. 2 Start		CH.: Time: Hz:
★	Change Program Parameters	Prog. Set Prog. 1 Set Prog. 2 Set		

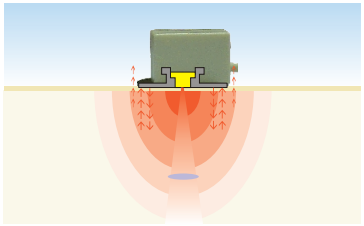
Program Setting

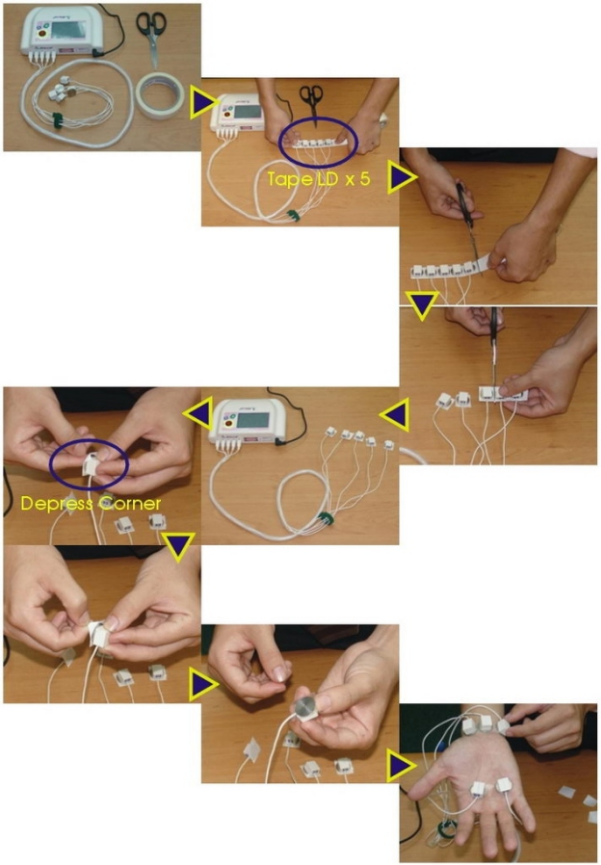
OPERATION			LCD DISPLAY	Progammed Parameters
STEP	ACTION	KEY IN		
◎	Change Program-1 Parameters	Prog. 1 Set Ch. ALL Set Time 3 0 Set Freq. 1 0 Set Start After Start Switch Power OFF		CH.: 1 ~ 10 Time: 30 Hz: 10
★	Execute Program-1	Prog. 1 Start		

Using Aculas-AM

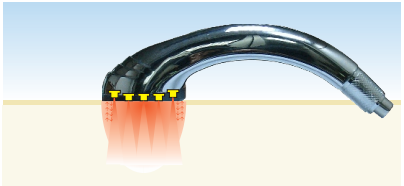
Aculas-AM can be used for treatment of diseases and conditions, follow the recommended dosage and treatment time to get the best efficacy. You can also find new information about using Aculas-AM on the web *www.konftec.com.*

Laser module taping instruction





Laser shower instruction



Tips and troubleshooting

Read on for advice about using and troubleshooting Aculas-AM.

My Aculas-AM won't turn on

☑ Make sure Aculas-AM's power switch is on.

☑ If that doesn't work, check the connection from Aculas-AM to the Aculas-AM power adapter and connect the adapter to a working electrical outlet.
If that doesn't work, contact your local sales office.

My Aculas-AM is flashing fault sign and is continuously playing music

☑ **Turn off the power switch** then reconnect the laser module.

☑ Repeat the operation steps:

1. Turn on Aculas-AM's power switch.
2. Press "Prog" (program) button to set the last therapy protocol.
   Wait 3 seconds until the circles of CH. (channel) appear.
3. Press "Start" button to begin the therapy.

☑ If that doesn't work, you can still temporarily use the working channels by deleting the faulty channel.

☑ Refer your **Operation Manual** for detailed operation steps.

☑ Contact your local sales office.

Learning more, service, and support

There is a wealth of information about using Aculas-AM on the web.
For the latest information on Aculas-AM 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 and cleaning

Read on to learn about using Aculas-AM safely and cleaning Aculas-AM.

Important safety instructions

When setting up and using your Aculas-AM, remember the following:

- ☑ Read user's guide carefully before you plug your Aculas-AM Power Adapter into a power outlet.
- ☑ Keep user's guide handy for reference by you and others.
- ☑ Follow all instructions and warnings dealing with your Aculas-AM.
  Warning: Electrical equipment may be hazardous if misused.
- ☑ Operation of this device, must always be supervised by an adult. Do not allow children access to the interior of any electrical product and do not permit them to handle any cables.

Warning: Laser beam

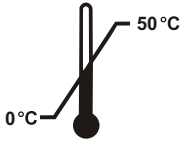
- ☑ Avoid direct eye exposure to the laser beam.
- ☑ Because some Aculas-AM lasers emit invisible infrared light, the usage of laser shower or handheld unit in the area of the face and around the eyes must proceed with appropriate care and caution. Invisible infrared laser light penetrating the eye may cause serious harm after extended exposure. Therefore, the use of the optional laser safety goggles for the patient and clinician is advised.

Using the power adapter

- ☑ Use only the power adapter that came with your Aculas-AM. Adapters for other electronic devices may look similar, but they may damage your Aculas-AM.
- ☑ The only way to shut off power completely to your power adapter is to disconnect it from the power source.
- ☑ When connecting or disconnecting your power adapter, always hold the power adapter by its sides. Keep fingers away from the metal part of the plug.
- ☑ Before connecting the laser module cable to the power adapter, make sure there are no foreign objects inside the adapter's port.
- ☑ The power adapter for your Aculas-AM is a high-voltage component and should not be opened for any reason, even when the Aculas-AM is off. If the power adapter needs service, see “Learning more, service and support.”

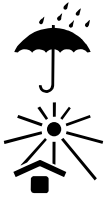
About operating and storage temperatures

- ☑ Operate your Aculas-AM in a place where the temperature is always between 0 and 40º C (32 to 105º F).
- ☑ Store your Aculas-AM in a place where the temperature is always between -20 and 85º C (-4 to 185º F).
- ☑ When you are using your Aculas-AM, it is normal for the bottom of the power supply case to get warm.



Avoid wet locations

Warning



- ☑ To reduce the chance of shock or injury, do not use your Aculas-AM in or near water or wet locations.
- ☑ Keep your Aculas-AM and power adapter away from sources of liquids, such as drinks, wash basins, bathtubs, shower stalls, and so on.
- ☑ Protect your Aculas-AM and the power adapter from direct sunlight and rain or other moisture.
- ☑ Take care not to spill any food or liquid on Aculas-AM or its power adapter. If you do, unplug Aculas-AM before cleaning up the spill.
- ☑ Depending on what you spilled and how much of it got into your equipment, you may have to send your equipment to Konftec for service. See “Learning more, service, and support.”

Do not make repairs yourself

Warning

- ☑ Do not attempt to open your Aculas-AM or power adapter, disassemble it. You run the risk of electric shock and voiding the limited warranty.
- ☑ No user-serviceable parts are inside.
  For service, see “Learning more, service, and support.”

Cleaning

Follow these general rules when cleaning the outside of your Aculas-AM and its components:

- ☑ Make sure your Aculas-AM is unplugged.
- ☑ Use a damp, soft, lint-free cloth. Avoid getting moisture in openings.
- ☑ Don't use aerosol sprays, solvents or abrasives.

About handling

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

Konftec Corporation

12F-7, No.77, Sintai 5th Rd., Sec. 1,
Sijhih District, New Taipei City 221
Taiwan

www.konftec.com

© 2013 Konftec Corporation. All rights reserved.
Konf, the Konf logo, Aculas, and Aculas-AM
are trademarks of Konftec Corporation,
registered in Taiwan and
other countries.

UAMMX_30601E