User manual for Smart Physiotherapy System Model No.: Smart S20A





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Precautions

Please read this user manual before using the system, and pay more attention to the safety precaution in this manual.

Please keep the user manual for future reference.

If a ny que stions a bout during the us e o f the s ystem, pl ease c all our after s ales department, Tel no. +86 27 88189920.

• Important safety instructions

When using this physiotherapy s ystem, it is n ecessary to comply with the f ollowing b asic precautions.

Danger

Absolutely prohibited to look at the treatment window directly through the handle in case of retinal damage.

Attention

1) Do not bend or turn round the optical fiber which connects the handle and the system main body, or the optical fiber will be damaged.

2) Please put the handle on the handle holder after use of the system

3) Please do not open the system case to adjust of fix the system without our permission.

Only our company after sales staff or authorized professional staff could adjust or fix the system.

4) Please turn off the key switch, turn off the emergency stop switch, unplug the power

cord if long time not use the system. Keep the system in a dry and cool environment.

5) Clean the system with alcohol if there is dust or greasy dirt on the system case.

1. Turn on the system

- 1.1 Before turn on the system, please put the handle on the handle holder, and make sure the handle treatment window not towards human, and there is no blocks.
- 1.2 Connect the interlock (four-core aviation plug) the right position show in the follow picture.
- 1.3 Insert the key switch, turn the key switch clockwise to turn on the system.
- 1.4 Plug the power cord.
- 1.5 Emergency stop switch is off.
- 1.6 Turn on power switch, the system starts working.





1.7 The startup interface for SMART S20A system is as follows



2. Main interface for SMART S20A system

When turn on the SMART S20A system, and goes to the main interface, it shows as below pictures

When the green indicator light is on, it shows the system works normally.

SMART		
	Energy KJ	Power W Time Minute
	Save Data	() Standby

3.Choose the target treatment area

Press the button "Treatment Area", enter below interface, and choose the right treatment area.



3.1 Shoulder and Neck pain treatment

3.3.1 Press the button "Shoulder and Neck pain", it shows the default treatment energy and time on the right side of the interface. Press the button "Confirm", you can go to the interface as below picture. You can set the treatment energy and time by yourself in this interface, press the button "Value" which below the button "Energy", you can set the energy. The energy should be less or equal to 20. Press "Confirm" after you enter the value. Set the treatment time with the same method.



3.3.2 After the setting, press "Confirm", go to the follow interface.

3.3.3 Press "Standby", when the button turns to "Ready", the physiotherapy system is ready for treatment. The indicator light of the treatment handle window is on, press the trigger button, it emit laser light continuously, the blue indicator light of the front panel is on meantime. There is "d i d i d i "sound from the s ystem. When the b utton 'Ready" turns to "Shooting", p ut the treatment handle close to the target neck and shoulder p ain area and s tart the treatment. The treatment time will become l ess till zero when the treatment finished. The treatment power becomes higher, the final data is the total treatment energy. When the whole treatment finished, could press "Save data" to record the related date in the system. The default mode is traditional treatment mode, it moves continuously on the treatment area. Before press the button "Standby", you could also press "Light moxibustion therapy" button to enter light moxibustion therapy mode. You can have light moxibustion treatment for target area continuously. The treatment times turns to zero when treatment finished. The button "Shooting" turns to "Ready", At this time, if you press the button again, you can start the treatment twice till the treatment time turns to zero.



3.4 Shoulder periarthritis treatment

Press the button "Shoulder periarthritis", shows the below interface, set the power and time as 3.3.



SMART			
	Energy	Power 20 W	
	КЈ	Time	
	Save Data	U Standby	
	System Setting	Shoulder periarthritis	

3.5 Lumbago treatment

Press the button "Lumbago" shows the below interface, set the power and time as 3.3.

12	MART	
	Shoulder and Neck Pain	Power
	Shoulder periarthritis	
	Lumbago	Time Minute
	Sciatica	
	Muscle Pain	Confirm
	Sports Injury	
TAKA	Ankle Pain	Optical Lumbago Moxibustion Treatment

SMART			
	Energy	Power	
	КЈ	Time	
	Save Data	U Standby	
	System Setting	Lumbago Optical Moxibustion Treatment	

3.6 Sciatica treatment

Press the button "Sciatica" shows the below interface, set the power and time as 3.3.

SM	ART	
	Shoulder and Neck Pain	Power
	Shoulder periarthritis	
	Lumbago	Time
	Sciatica	
	Muscle Pain	Confirm
	Sports Injury	Commit
	Ankle Pain	Sciatica Optical Moxibustion Treatment

SMART			
	Energy	Power	
	кJ	Time Minute	
	Save Data	U Standby	
	System Setting	Sciatica Treatment	

3.7 Muscle pain treatment

Press the button "Muscle Pain" shows the below interface, set the power and time as 3.3.

SMART		
	A Shoulder and Neck Pain	Power
	Shoulder periarthritis	
	Lumbago	Time Minute
	Sciatica	
	Muscle Pain	Confirm
	Sports Injury	Commit
	Ankle Pain	Muscle Pain Optical Moxibustion Treatment

SMART			
	Energy	Power	
	КЈ	Time Minute	
	Save Data	🖒 Standby	
	System Setting	Muscle Pain Treatment	

3.8 Sports injury treatment

Press the button "Sports Injury" shows the below interface, set the power and time as 3.3.

SMART		
	A Shoulder and Neck Pain	Power
	Shoulder periarthritis	
	Lumbago	Time Minute
	Sciatica	
	Muscle Pain	Confirm
	Sports Injury	Commit
	Ankle Pain	Sports Injury Treatment

SMART		
	Energy	Power
	КЈ	Time
	Save Data	U Standby
	System Setting	Sports Injury Moxibustion Treatment

3.9 Ankle pain treatment

Press the button "Ankle Pain" shows the below interface, set the power and time as 3.3.

SM	ART	
	A Shoulder and Neck Pain	Power
	Shoulder periarthritis	
	Lumbago	Time
	Sciatica	
	Muscle Pain	Confirm
	Sports injury	Comm
	Ankle Pain	Ankle Pain Optical Moxibustion Treatment

SMART		
	Energy	Power
	КЈ	Time Minute
	Save Data	C Standby
	System Setting	Ankle Pain Optical Moxibustion Treatment

3.10 Tenosynovitis and Tennis Elbow treatment

Press the button "Tenosynovitis and Tennis E lbow" s hows the below in terface, set the power and time as 3.3.



SMART		
	Energy	Power
	KJ	Time
	Save Data	U Standby
	System Setting	Tenosynovitis and Tennis Elbow

3.11 Rheumatoid arthritis treatment

Press the button "Rheumatoid Arthritis" shows the below interface, set the power and time as 3.3.



SMART		
	Energy	Power
	КЈ	Time Minute
	Save Data	C Standby
	System Setting	Rheumatoid Arthritis Treatment

- 4. System setting
- 4.1 System setting interface

press "system Setting", it shows the system basic information on the left side of the interface, includes the system type, software version, production date and serial number.



SMA	ART
System Type:	Back
Production Date: Serial Number:	Factory Reset Sounds On

4.2 Swith the treatment mode

Press the button"Back", you can exit the system setting and back to the system main interface. If you have to switch from the two treatment modes during treatment, you could press the button "System Setting" and press "Back" to choose the treatment mode you need.

4.3 Debugging

Press the button" Debugging" you could adjust the system, this function is only used for staff from manufacturer.

SMART		
	Please Enter the Password	
1	2	3
4	5	6
7	8	9
🗢 Back	0	×

4.4 Factory Reset

Press the button "Factory Reset", all parameters will go back to the original value when leave the

factory.

	SMART	
Í	Reminder	
	Restore Factory Settings or Not	
	Yes	

4.5 Turn on or off the sound

The default display is "Sound On", at the same time, the system will gives out the sound " di di di ...", press "Sound On", the button turns to "sound Off", at the same time, the system will not give out any sounds during treatment.

Malfunctions	Reason	Solutions
The red indicator light is on, the		
lower right corner on the screen	The emergency	
shows "stop switch	stop switch is	Loosen the red emergency stop switch
disconnected, reset the stop	pressed down	
switch"		
The red indicator light is on,		
shows "key switch was not on,		
please turn on the key switch"	The key switch is off	Turn on the key switch
on the screen,.		
The red indicator light is on,	Interlock is not	Connect the interlock to the right
shows "interlock not connected,	connected.	position.

5.	Frequent	malfunctions	and	solutions
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please connect the interlock"		
The red indicator light is on,		
shows "Temperature is high,	Handla averbaat	Use the system ofter half on hour
please stop for half an hour" on	Handle overheat	Ose the system after half an nour.
the screen.		

6. Performance Parameters

Terms	Value
Туре	Diode Laser
Wavelength	980nm
Peak Power	20W
Spot Size	φ30mm
Working mode	CW
Power Supply	AC200-240V /50Hz
Input Power	200W
Dimension	354mm×128mm×225mm
Weight	6kg

7. Product list

Smart physiotherapy main body

Treatment handle

Handle holder

Power cord

Key switch

Interlock (four-core aviation plug)

User manual