

Xenopro 3230 Professional IPL Instruction Manual

Chapter1 is a general introduction to the Xenopro IPL system



1.1 Treatment field

The Xenopro Professional IPL is widely used for skin treatment, including face neck, chest and hands for all basic indications.

It treats following conditions:

1. Pigment changes, including brown spots and lentigines, dyschromia ruddy complexion and other conditions brought about by sun and photodying.
2. Vascular changes, including talangiectasias, and the redness from broken capillaries.
3. To shrink skin pores and to effectively improve coarse pores: to reduce fine threads and wrinkles and so on.

The combination of the IPL and Botox injection therapeutics can be used to fade away contractibility wrinkles ,improve the facial outline.

1.2 Principle of treatment

Principle of phototherapy

The special intense pulsed light is applied on skin, since the chromatophore content in treated area is far more than that in normal skin, therefore it will be firstly absorbed by both the chromatophore and blood vessels whose temperature after absorption will also be higher than that of the normal skin, the differ of temperature is then used to close the treated blood vessels and to decompose chromatophore without doing any damage to normal organizations to achieve the final effect of enlarging capillary vessel and of treating pigmented spots.



1.before treatment

Pigment mass and expansive small capillaries are the main components in skin flaw.



2.in treatment

The IPL of particular spectrum segment can penetrate the epidermis, being selectively absorbed by pigment mass and hemoglobin as well as being converted to heating energy



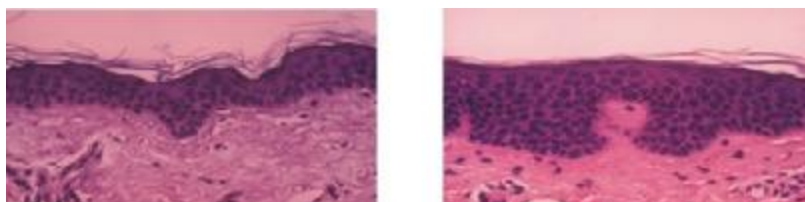
3.after treatment

The target tissue is decomposed and absorbed, Skin comes to being smooth and satiny.

Function of Bio logical stimulation:

Intense pulsed light is applied on skin and has photochemical action, making inner molecular structure of collagenous fiber and elastic fibers in dermal layer change rearrange and restore their original

More than that, the phototherapy can also strengthen the function of blood vessels by improving circulation and finally achieve curative effect of removing wrinkles and shrinking skin pores.



Intense pulsed light make skin collagenous rearrange

1.3 Treatment parameters

The Xenopro Professional IPL allows the user to adjust the treatment parameters. The treatment parameters are:

Fluence: Determines the amount of light energy to which the treated area will be exposed.

Pulse Type (program#): Determines the number of pulses (Double, Triple), pulse duration and delay between the pulses.

Chapter2 Safety

This chapter describes general safety issues regarding the use of the Xenopro Professional IPL with special emphasis on optical and electrical safety.

Warning!

Intense pulsed light can result in strong radiation, so the end-users should read this manual carefully before using machine.

2.1 The procedures

The Xenopro Professional IPL is an instrument designed for safe and reliable IPL skin treatments. IPL improves the appearance of photoaged skin, removes age spots (sun induced freckles), most benign brown pigments, broken capillaries and redness, through the process of photorejuvenation.

With proper operation and maintenance, the system can be used safely by trained, qualified practitioners. The operator and all other personnel operating or maintaining this equipment should be familiar with the safety information provided in this chapter.

The primary considerations should be for the safety of the patient, the operator and other personnel.

The general safe measure for system as follows:

- I self-test of the electrical circuits takes place after the machine is turned on or a treatment head has been changed. The test circuits continuously monitor the operation of the system during treatment.
- I closed filter/light guide geometry is used to transmit light to the patient's skin. Light is emitted only through the front plane of the light guide.

- I .Independent safety circuits shut down the system to prevent exposure to a light overdose.
- I emergency shut-off knob expedites shutdown when necessary.
- I key switch prevents unauthorized activation of the device.
- I warning buzzer sounds when the machine is ready to trigger a pulse.

Warning!

Any intense pulsed light emitting device can cause injury if used improperly. High voltages are present inside the Xenopro Professional IPL unit.

The patient

Patient safety is primarily assured by a well-trained staff and a well laid out treatment room. Patient education is also important, including information about the nature of the treatment.

Patients should wear Epione Care AB IPL protective eyewear (optical density5) during treatment.

The operator and other personnel

Exposure to intense pulsed light requires eye protection suited to the wavelength. The operator and attending personnel should wear protective eyewear (optical density3) during treatment.

2.2 The Treatment Room

The treatment room should be clearly labeled, with signs indicating that high intensity light is being used. Figure 2.1 shows the treatment room caution sign that is supplied with the system.



(figure 2.1 caution sign for the treatment room)

2.3 Major cautions and warnings

The following cautions and warnings are to be heeded for safe use of the IPL Xenopro SR.

Cautions

.Only Epione Care AB authorized personnel may service the Xenopro Professional IPL system, especially inside its protective covers. This includes making internal adjustments to the power supply, cooling system, optics, treatment head, etc. Dangerous voltages are present inside the unit.

Verify that the Xenopro Professional IPL is wired for the appropriate electrical voltage of your country (200v, 208v or 230v).

.Maintenance should be performed by the user only when the unit is shut down and disconnected from power. Performing maintenance procedures with the system powered up may be hazardous to the user and/or destructive to the system.

The light guide must be kept clean at all times and gel should not be allowed to seep inside the treatment head. The light guide should be covered with the provided plastic covers, which should be cleaned thoroughly or replaced after every patient.

If water is detected leaking from the treatment head, the Xenopro Professional IPL should not be turned on. If it is already on, it should be turned off immediately.

Replace the leaking head before starting the system.

Warnings Related to intense pulsed Light and potential for Damage

.Intense pulsed light emission presents an eye hazard and a potential fire or burn hazard. Take all necessary precautions in areas where the Xenopro Professional IPL is being used.

Delivering excessive energy to the treatment site can result in thermal damage to the skin, resulting sometimes in hypertrophy and/or atrophy and/or abnormal pigmentation.

The Xenopro Professional IPL emits intense pulsed visible and near infrared light pulses. Make sure that the patient and all those present in the treatment room guard against accidental exposure to this emission either directly from the treatment head or indirectly from a reflecting surface. To protect against eye damage and discomfort make sure that the patient and all personnel wear Epione Care AB protective eyewear.

Never look directly at the light beam coming from the treatment head so that it discharges into free space. Make sure it is hanging on its hook, or during actual treatment, pointed at the target area.

Keep hands away from the treatment head during system start-up.

Lables

The following labels are affixed to the back of the Xenopro Professional IPL Console:



Figure 2.2caution sign

2.4 Optical Safety

The following guidelines are to be followed to ensure optical safety:

- ※Guard against accidental exposure to the intense pulsed light by ensuring that all personnel, including the patient, wear protective eyewear whenever the Xenopro Professional IPL is in use. If the patient cannot wear the eyewear, fit the patient with opaque eye protection that completely blocks light from the eyes.
- ※Clearly identify the room in which the Xenopro Professional IPL is located, and post the caution sign in a prominent location (Figure2.1).
- ※Allow access to the Xenopro Professional IPL treatment room only to personnel essential to the procedure and well trained in the required safety procedures.
- ※Make sure that all treatment room personnel are familiar with the IPL controls and know how to shut down the system instantly.
- ※One qualified person should be responsible for the Xenopro Professional IPL or reflecting surfaces, even when wearing protective eyewear.
- ※Never look directly at the intense pulsed light emitted from the treatment head of the Xenopro Professional IPL or reflecting surfaces, even when wearing protective eyewear.
- ※Do not use the treatment head in any way other than that specified in this manual.
- ※Do not use the Xenopro Professional IPL in the presence of explosive anesthetics or other flammable materials.
- ※Never direct the pulsed light at anything other than the targeted area.
- ※Never permit reflective objects such as jewelry, watches, surgical instruments or mirrors to reflect the pulsed light.
- ※Do not expose any skin to the pulse except the test patch and the treatment area.

Warning

Delivering excessive energy to the treatment site can result in thermal damage to the

skin possibly leading to hypertrophy and/or atrophy and/or abnormal pigmentation.

2.5 Fire Hazards

- ※The absorption of optical energy raises the temperature of the absorbing material
Take precautions to reduce the risk of igniting combustible materials in and around the treatment area.
- ※Do not use any flammable substance such as alcohol or acetone in the preparation of the skin for treatment .If necessary, use soap and water.
- ※If alcohol is used to clean and disinfect any part of the machine it must be allowed to dry thoroughly before the system is used.

2.6 Equipment Classification

- ※Electric shock protection: Class I, Type BF.
- ※Protection against ingress of liquids: Ordinary equipment.
- ※Mode of operation: Continuous.

Chapter3 System Description

This chapter provides a general description of the Xenopro Professional IPL system, including its main components, controls and technical specifications.

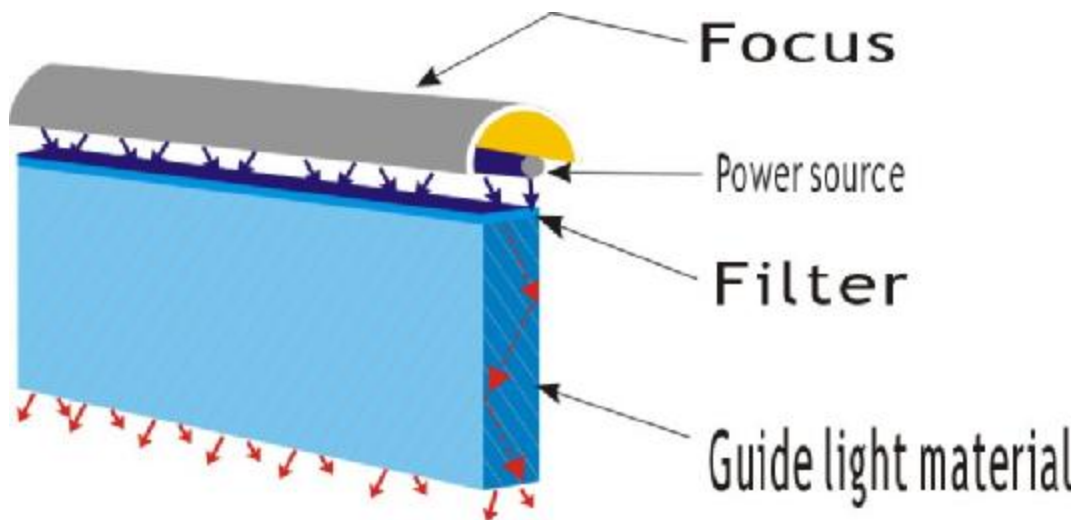
System components

Xenopro Professional IPL is an intense pulsed light device professionally treating various imperfect skin.

The Xenopro Professional IPL consists of system console, control panel and treatment head. The system is continuously monitored and controlled by the internal computer.

Control panel is mainly composed of LCD of 11×14cm which acts as a end-user's interface and a few of controlling knobs

It displays the type of device, function, parameter and other things besides these, it follows the various orders of end-users. Treatment head mainly consists of focus, power source, power source filter and guide light system.



Treatment head figure7

3.2 System diagram

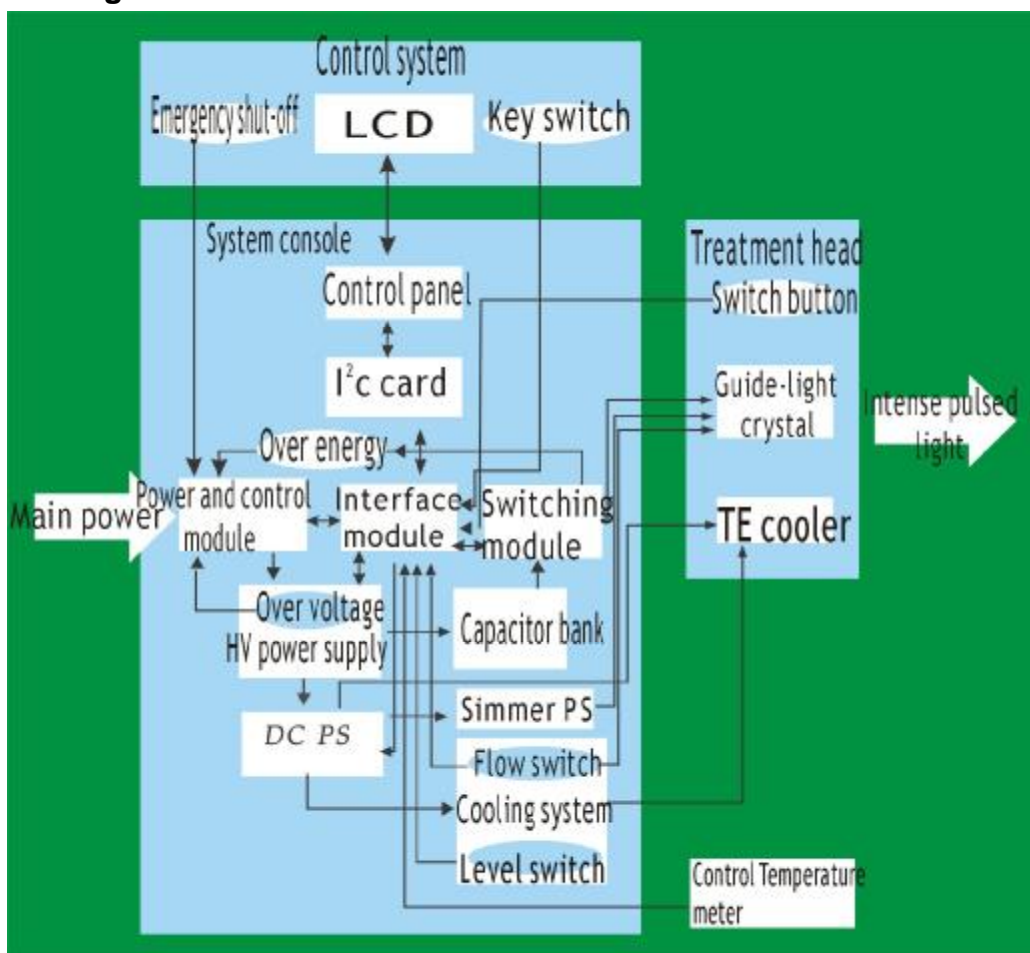


Figure3.2 system diagram

System console

It is the heart of system. It control every component work well and the whole system. It consists of the following major modules.

| Name | Function |
|---------------------------|---|
| CPU and LCD card | control the whole treatment system, It accepts all the modules' input and perform the proper function. |
| Power and control module | It supply the power to the whole system, it automatically disconnects power on the system showing obstacles |
| Interface module | It acts as a bridge of CPU and system module. |
| Switching module | Switch power in to intense pulsed light |
| High voltage power supply | Control capacitor bank |
| Capacitor Bank | Keep energy for intense pulsed light |
| DC power supply | Supply power to the cooling system |
| Cooling system | Carry the heat produced by head |

Optical Head

The optical head is the mechanisms that generate the light pulse. It is connected to the system console by an umbilical cord. A glass light guide coated with a filter is mounted at the bottom of the optical head.

The light pulse is activated by pressing the trigger on the optical t head Handle. The light passes through an aperture and a 34 x 8mm filter-coated light guide onto the treatment area. The light guide transmits light from the optical head to the patient's skin. It is important to keep light guide clean at all times.



Figure 3.2 head diagram

System parameters

Light source: intense pulse light source.

Spectrum field: 560~1200nm Standard head.
695~1200nm (standby)

Cooling system: water cooling and semiconductor cooling.

Power density: maxim 60J/cm².

Light spot size: 8 x 34mm./10*45mm

Pulse Number: 2-6.

Pulse width: 1-10ms.

Pulse interval number: 1-99ms.

Discharge times: 1s/2s/3s/4s.

Net weight: 60kg.

Work power: AC220v/10A.

Dimensions: 41cm x 58cm x 103cm

Chapter 4 Installation

Xenopro Professional IPL is designed for the beauty parlor and professional beauty lift center install following this Specification.

Installation is carried by authorized personnel, who do the following.

- ※Unpack the Xenopro Professional IPL system and position it in the pre-selected location.
- ※Verify the integrity of the unit and its components.
- ※Plug the system into a designated electrical outlet.
- ※Test the system for proper calibration and functional operation of all components.
- ※Coordinate the performance of an on-site safety inspection, if required.

4.1 Equipment List

The Xenopro Professional IPL system includes the following:

- ※System console and Control panel.
- ※One standard 560~1200nm optical heads.

- ※One optical head hoop.
- ※A pair of protective eyewear for the operator and staff.
- ※A pair of protective eyewear for the patient.
- ※A bottle of coupling gel for IPL.
- ※Epione Care AB 's light guide covers.
- ※Bottle for adding distilled water.

4.2 Facility Requirements

Before unpacking the Xenopro Professional IPL system, ensure that the site meets the requirements described in this section.

Space Requirements

The physical dimensions of the system are:

Width: 40cm, height:150cm (with umbilical support) and depth: 45cm.

Place the system away from heating ducts or other outlets. Keep at least 60cm (2ft.) of free space around all sides of the system.



figure 4.1 Xenopro Professional IPL physical dimension

Electrical Requirements

AC220±10%V 50HZ 10A

Air Quality

The Xenopro Professional IPL should operate in a non-corrosive atmosphere. Corrosive materials such as acids can damage electrical wiring, electronic components and the surfaces of optical components.

Air-borne dust particles should be kept to a minimum. Dust particles absorb light and

heat up. Hot particles. located on the optical filters can cause damage. Metallic dust is destructive to electrical equipment.

Temperature

To ensure that the Xenopro Professional IPL can perform optimally, it is recommended to maintain a room temperature between 20 and 25 and relative humidity of less than 80%. When the system is used intensively, it emits up to 2 kW of heat. Therefore, it is recommended to install air conditioning.

4.3 moving the System

To move the system within the facility:

1. Disconnect the power cable.
2. Hang the treatment head on its hook.
3. Release the wheel brakes.
4. Slowly push or pull the unit using the handle. Never pull on the touch screen panel.

If the Xenopro Professional IPL has to be moved to another facility, consult your service representative.

Chapter 5 Operation

This chapter contains detailed operating instructions for the IP; Xenopro SR.

Warning!

- ⚠ Dangerous voltages are present inside the unit! Keep all panels and covers closed.
- ⚠ The treatment head should be hanging on its hook during machine start-up.
- ⚠ The Xenopro Professional IPL emits intense light pulses.
- ⚠ Make sure that everyone present in the room during treatment wears the appropriate protective eyewear.
- ⚠ Never look directly at the light pulse coming from the treatment head, even when wearing the appropriate protective eyewear.
- ⚠ Never direct the treatment head at anything other than the targeted treatment area.

Warning

Delivering excessive energy to the treatment site can result in thermal damage to the skin, possibly leading to either hypertrophy, atrophy or abnormal pigmentation.

5.1 Starting the System

Be sure to the cool water in the water box before the start-up of machine, cooling water must be pure water or medical distilled water.

Start System according to the following processors.

To being with a great function, a great anti-interference ability, a good-looking interface and a complete out-controlling interface, the operation system that is specially designed for IPL machine:

1. *Welcome interface*

Be sure conncted the power, then turn on machine with key switch, the screen will show the welcome interface as picture 1 showed, about 2 seconds later of water system self-tested finished as picture 2, the screen will automatically come into the selective treatment interfacce as picture 3 showed:

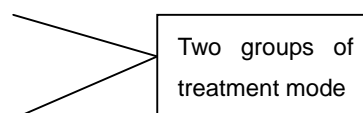
Picture 1

Picture 2

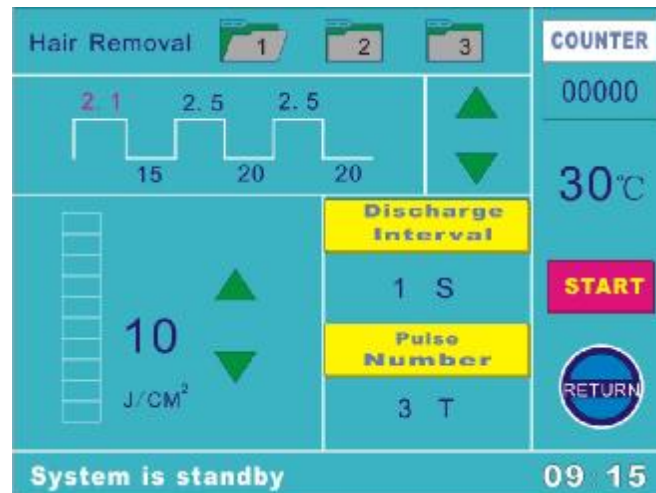
2. *Selective treament interface*

After coming into the selective treatment interface as picture 3 showed, touch key “**hair removal**” or “**skin rejuvenation**” to have a corresponding treatment mode; if touch the key “**system settings**” , the system will come into the system function setting interface, then you can modify the system function option.

Picture 3

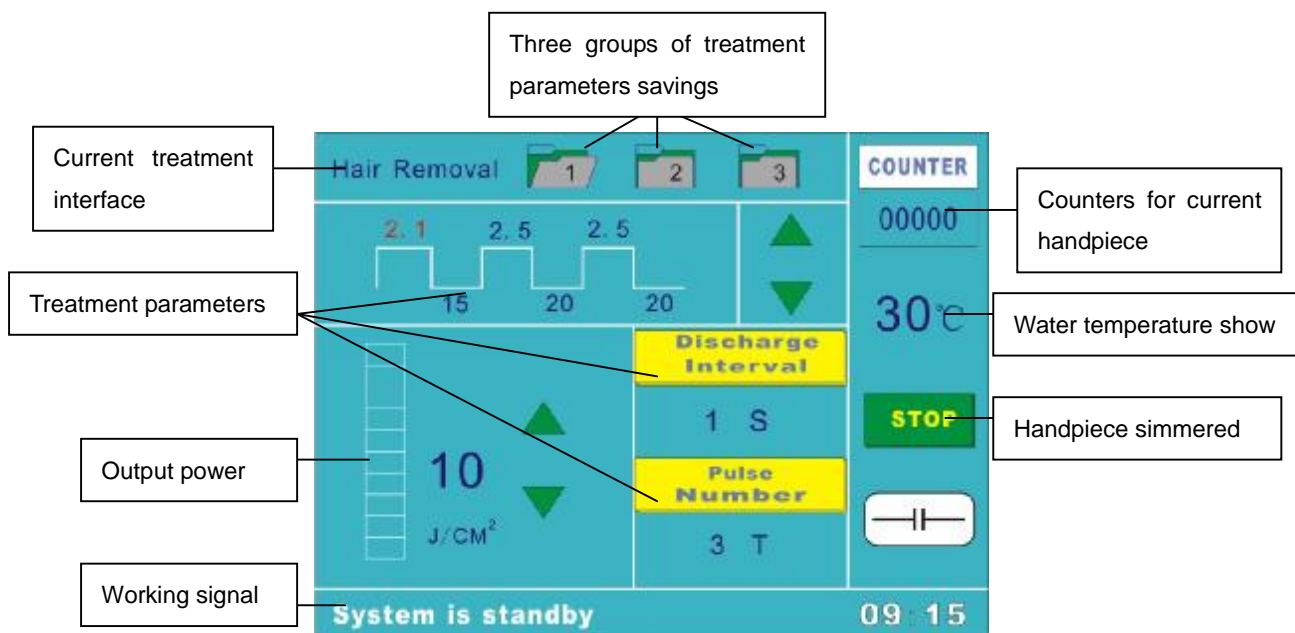


3. Treatment interface

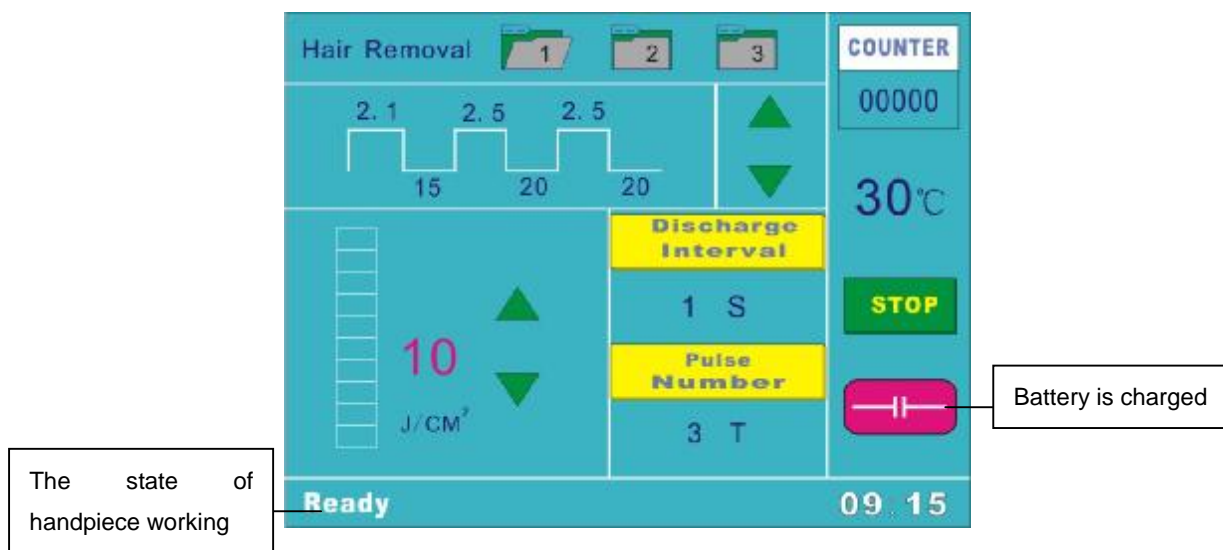


Picture 4

When choose any treatment mode, the system will come into right treatment interface, we take “hair removal treatment interface” as the sample: first touch key “**Hair removal**” at picture 3, the system comes into hair removal treatment interface as picture 4 showed, in this treatment interface, you can adjust and modify the treatment parameters for machine first (to adjust pulse widths and pulse delays, use beside “**UP**” and “**DOWN**”), then touch the key “**START**” to simmer handpiece, and then touch the key “**BATTERY**” to make the battery being charged, meantime, the system will show “being charged” at the system working signal..., after the battery being charged, you can start to treat..., after that touch the key “**STOP**”, the handpiece will be closed (namely the lamp is closed), then touch the key “**RETURN**” to back to the picture 3 of selective treatment interface, meantime, the handpiece will be closed.



Picture 5



Picture 6

Current treatment interface: show the current treatment model and the handpiece 695nm/560nm;

Output power: show the current handpiece outputted power from 10-60J;

Treatment parameters: the selected and saved treatment parameters under the current

treatment model;

Working signal: the function signal for the current key touched;

Counters for current handpiece: show the counters that handpiece flashed for current treatment;

Water temperature show: show the current system's water temperature, but we set this meter at the back of machine instead of on screen.

Treatment parameters: show current treatment records (pulse widths, pulse delays, discharge interval, pulse number), you can adjust and record different treatment parameters for treating different patients, touch those parameters, you can change treatment records

Pulse (discharge) interval: adjust the repeated frequency of treatment pulse, its range is from 1~4S, just touch the key "discharge interval" to choose the discharge time you expected, generally we set 1s.

Pulse Number: Choose the numbers of treatment pulse, its range is from 1~6 pieces, generally we set 3 pieces or more (1 pulse number is dangerous under treatment).

First pulse width: adjust the first pulse width; to *the single pulse*, the single pulse should be the pulse width; to *the multi-pulse*, the first pulse should be the first pulse width, its adjusting range is from 1~10ms, each 0.1ms as a step.

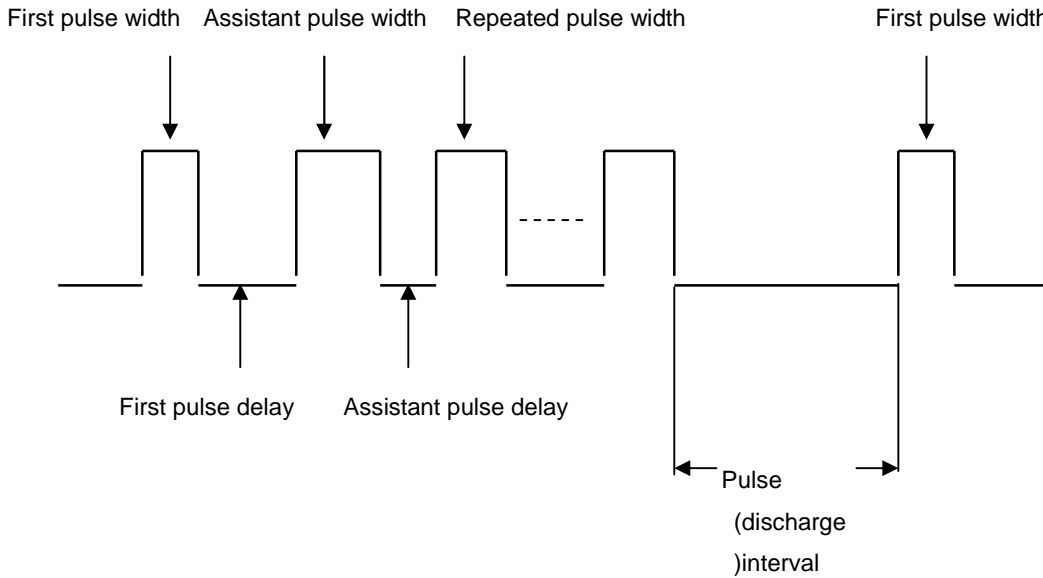
First pulse delay: adjust the heat delay time of pulse between first pulse width and assistant pulse width (the second pulse width), the adjusting range is from 1~100ms, each 1ms as a step.

Assistant pulse width: adjust the assistant pulse width (the assistant pulse width is namely the second pulse width), if it is single pulse, it will not show the assistant pulse width, the adjusting range is from 1~10ms, each 0.1ms as a step.

Assistant pulse delay: adjust the heat delay time of pulse between assistant pulse width (the second pulse width) and repeated pulse width (the third pulse width and further pulse...), to single pulse, it will not show the assistant pulse delay..., the adjusting range is from 1~100ms, each 1ms as a step.

The repeated pulse width: Adjust the pulse width of the repeated pulse(the third pulse and further pulse), to single pulse, it will not show the repeated pulse width, the adjusting range is from 1~5ms, each 0.1ms as a step.

Pulse output sketch:



4. The skin rejuvenation works as same with hair removal interface.

In treatment

Current treatment interface

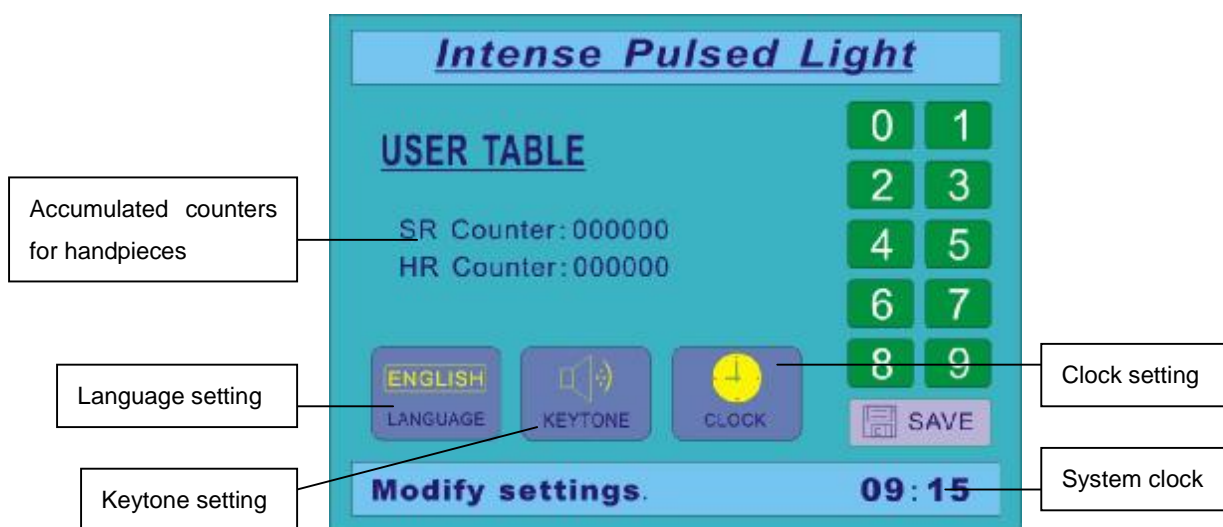
The state of handpiece working

Picture 7

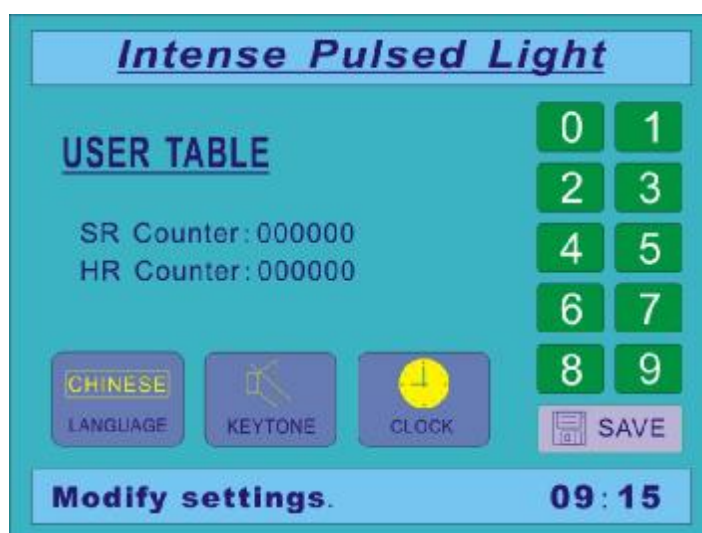
After battery being charged, waiting about 10 seconds, when the handpiece is cooled, the machine just start working, press the “ **red working button**” on the handpiece, and at this time there will show “**In process...**” during the working signal, meantime, the handpiece

will work according to the parameters you just set. When you press the “red working button” on handpiece, all keys are non-feedback until unfastening the red working button, during your treatment course, you can modify the treatment parameters as you want, **After the treatment being finished, press (touch) the key “STOP” to back off from treatment process, and close the handpiece, and then press the key "RETURN", the system will automatically return to “selective treatment interface”.**

5. Set and examine system function parameters



Picture 8




Picture 9

On this system function parameters, we can come to examine and modify the system function parameters.


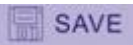
SR Counter: the accumulated counter for skin rejuvenation.

HR Counter: the accumulated counter for hair removal.

In the system function settings, there are three function states you can *choose*:

System language settings: Touch the key  to choose the language you wanted, generally we set English for standard.

Keytone settings: touch the ico,  means open,  means close;

System clock settings: touch the ico, , directly input the numbers at the number keyboard area, press  to save it. For example: if want to modify the clock to be 18:30, touch the ico “clock”, then orderly input 1、8、3、0, then press the key “**SAVE**” to keep saving it.

Chapter 6 Maintenance and troubleshooting

This chapter describes routine maintenance procedures performed by the user: cleaning the unit, cleaning the light guide, replacing the treatment head and output calibration. It also provides a troubleshooting guide which contains the most common system problem problems and their solutions.

The procedures in this chapter and those listed in the troubleshooting guide at the end of the chapter should be the only maintenance activities you perform. All other service procedures are to be performed only by the company’s authorized service personnel.

Warning !

Maintenance by the user should be performed only when the unit is shut down and disconnected from power. Performing maintenance procedures with the system ON can be hazardous to you and/or destructive to the system.

6.1 Cleaning the unit

Clean the Xenopro Professional IPL at least once a week. Wipe surfaces with a soft, damp, non-abrasive cloth. A mild cleansing solution may. Be careful not to spill any liquids on the unit.

6.2 Cleaning the light guide

The light guide should be kept clean at all times and should be cleaned after each patient.

To clean the light guide, first dry it with a lint-free cloth. Then clean it with a cloth moistened with ethyl alcohol or isopropyl alcohol and let it dry thoroughly.

Caution!

Never immerse the light guide or any other part of the treatment head in water, nor hold it under running water.

6.3 Replacing the treatment head

Every device is equipped with a head of 560~1200nm. If need a standby head (depilation head of 695~1200nm) contact with Epione Care AB

Head is an expendable, its service life is 10000 times, if head becomes unusable, replace it and return the unusable head to Epione Care AB

Caution!

Don't replace the head in the start-up mode, when replace the head be sure that the power is disconnected.

To replace the treatment head:

Turn off system and pull out the power plug.

Open the protective cover of the device, loose the head and system connector.

Left hand press the cooling system water pipe mouth, pull out the cooling pipe mouth.

Connect new head system..

Connecting mouth and cooling pipe.

The general safe measure for system as follows:



Connector for optical head

6.4 how to replace water for equipment please check Chapter 7 accessories

6.5 Trouble shooting

If one of the following symptoms appears, following the recommended action as listed below:

1) No power of system can't start.

1. Test if power plug inserts well.
2. Red emergency shut-off knob is pressed, release emergency shut-off knob by turning it clockwise.
3. Test if insurance pipe is good in the insurance pipe socket, if it is burnt out please replace it.

2) Water can't flow after start.

1. Trouble phenomena: water can't flow after start machine or water circulation not good.
2. Correctly dealing way: Shut the system, disconnect power then open the rear cover of machine, check the water level, if water level is low, please fill water in time.

3) Press switch no light out

1. Test if system is in the "Enter" mode.
2. Test if handle switch is normal, if damaged, replace it.
3. Test if choose lower energy output, adjust energy "up" key increase energy.

4) Intense pulsed light output becomes weak obviously or no light out.

1. Low voltage, workless
2. Light guide crystal is not clean, clean it normally.
3. Xenon light burn out in the treatment head's rifle cavity, replace head.
4. Test if leak water from the handle or rifle-head. If exists water leakage, replace it.

5) In the using course, stop work resulting from cutting off the power without reason, close the machine and restart, but still no output of intense pulsed light.

1. Water temperature auto-control disconnect power device starts

Phenomenon: continuously using high-energy work on pigmentation pathological changes result in the cooling water increase temperature sharply the operating handle and water pipe out cover burns out quickly. In order not to burn out the xenon light, we design a water temperature auto-control disconnect-power device, It works when the water temperature is 55 .

The right dealing way: please draw out 2/3of cooling water in the water case , put the pure water or distilled water into water case.(forbid using the frozen water to avoid block water) restart machine.

2.If exists circuit block, please test immediately.

6)On using machine, there's electric shock feeling when touching machine.

- 1.It is dry, it produces the static that human body rubs, wear little chemical fibre clothing.
- 2.Not using three-phase grounding plug, please replace three phase plug, The power socket should connect with grounding wire.
- 3.voltage in the room is instable ,equip a device making the voltage stable

7) Leak phenomenon

- 1.Operating handle leaks water
- 2.Leak result from strong vibration in the course of transportation.
- 3.Water case or pump leaks water.

8) Energy decrease in the course of using machine

- 1.Test if exists impurity on the rifle lens, which result in blocking light. If exists impurity, please clean using anhydrous ethanol.
- 2.If there's hot feeling in the Operating handle temperature, please make the machine rest of 30minutes or replace the cooling water.
- 3.Test if front lens perfect, it is smashed. Please contact with us.

Chapter 7 Accessories

The IPL accessories are:

- | | | |
|---|--------------------------------------|------------|
| I | Standard optical head: 560-1200nm | one piece |
| I | Standard optical head: 695-1200nm | one piece |
| I | Power supply line | one piece |
| I | The hook for optical head | one piece |
| I | The water filling bottle | one bottle |
| I | Long water pipe | one piece |
| I | Short water connector | one piece |
| I | Protective glasses(glass and goggle) | one set |
| I | Cooling gel | one bottle |



SR 560nm handpiece



HR 685nm handpiece



Cooling gel



protective glasses



handpiece hook



Water filling bottle



short water connector



Power wire

7.1

Skill parameters

Safety principle: photon absorption and shield principle.

Wavelength range: 200nm~1200nm

Visible light penetrating rate: 12%

Using light energy density: $\leq 200\text{J/cm}$

Using intense pulsed width: no alternative.



Note!

- .Don't look at intense pulse light even though wearing protective glasses.
- .Don't clean protective glasses with alcohol the acetone and such organic solvents.
- .The protective glasses service life is for one year.

7.2 Eyewear

It is designed for the patients.

7.3 Cooling gel

It's used for skin cooling and optical coupling keep it in the ice-box (4-5). Put coupling gel of in the treated part.

7.4 Light Guide Covers

The light guide clean and to prevent gel from getting into the treatment head.

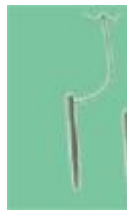


7.5 Optional heads

There's one optional treatment heads available, with a 695-1200mm

7.6 Treatment head hook

Hung the treatment head on the hook.

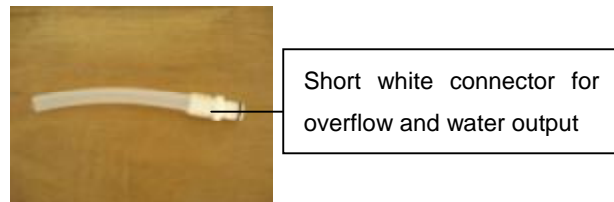
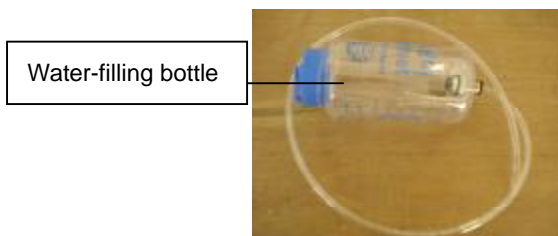
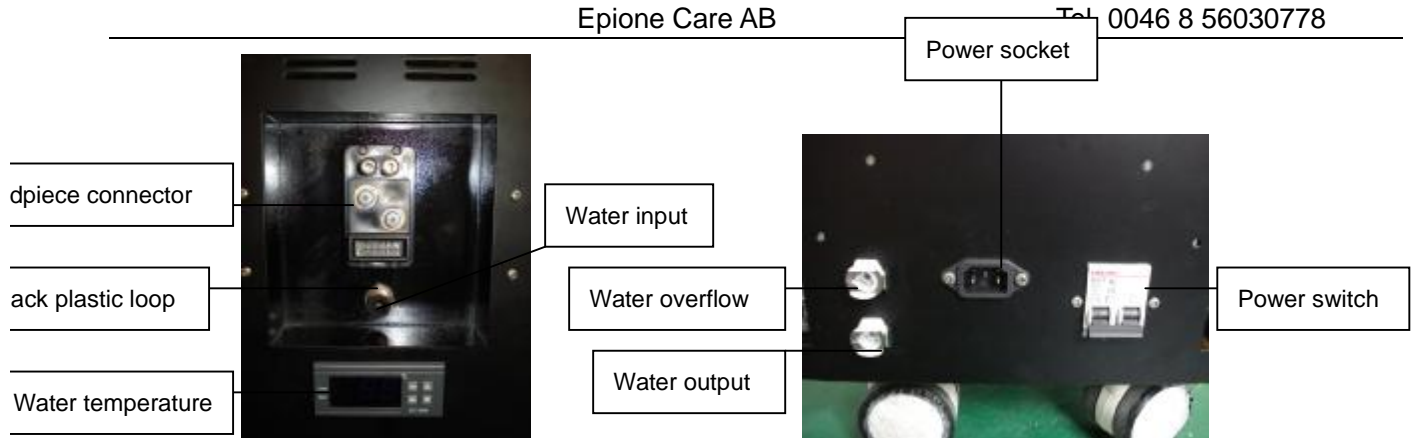


7.7 Water filling bottle

Using it when filling water into the water tank.

Installation process before use

- 1 Take out the machine gently and find out accessories as aboved accessories;
2. Take out the water-filling bottle from hand-piece box, you will see one short white water connector inside bottle, now take out the short white connector, then plug it into water overflow ,then plug the longer water pipe into the water input, then fill the **distilled water** into the water-filling bottle until the water comes out from the water overflow mouth, then you can stop filling(see following segmentation picture), at last, take off the longer water pipe at water input mouth (the method is to press the black / or white plastic loop down) and take off the short white connector at the water overflow mouth.



3. Insert the optical head: when you insert the optical head into the handpiece connector, you must press down the buttons on the two sides on optical head to ensure that the water pipe connector is being the state of opening.
4. Get through the power supply line. The IPL use power: 220V, 50Hz. / Or 110V. 60Hz
5. Switch on the machine with key switch, and the screen will show the “first welcome interface”. At the moment, you should wait for two minutes to continue the following operation in order that the water can flow to the optical head normally.
6. Then operate the machine according to the instruction manual.

Attention: 1. Please don't switch on and operate the machine before you haven't injected the distilled water into the machine and have not inserted anyone of handpieces. And if you want to treat skin rejuvenation or hair removal, please plug corresponding optical head and choose corresponding treatment interface.

2. When you want to replace new distilled water for machine (It is better to

replace new water each month interval), plug the short white connector into the water output mouth until water discharge all.

Accessories1:

Knowledge of using optical head

- 1.Ensure the heads matches with your device and ensure the output wave range satisfies your requirement.
- 2.Do replace treatment head in the “off” condition.
- 3.Do well keep the head

Note!

Components may be damaged if happening the following crash, environment change greatly or freely remove the head. If you see any abnormal things please stop using it.

4. Return to the normal temperate condition after using head, otherwise it may result in aging the components.
5. Clean out-seeing part of guide light with soft cleaning cloth.

Note!

Clean the guide-light crystal in time after using it.

- 6.Be sure to using coupling gel confirmed by Epione Care AB, Ensure transmission efficiently and the treatment safety.

Note!

Bad coupling gel or other gel may result in the damage of light-guide crystal. Even worse may result in bad results such as, red and hydroncus skin.

- 7.There's cooling water in the inside part of head after using it, Please keep it in the condition of above 0 .

Note!

If kept in the condition of below water in the inside-part of the head will be frozen. In such case it will damage some components.

8. Read "using manual" carefully before using head.

Note!

Operation should be done by personal.

Note!

Any unlawful operation or dismantling photon treatment head or using nonstandard coupling gel, may damage the treatment head and host computer equipment, and will cause the quality of the treatment head and host computer to guarantee to cease to be in force automatically.

Accessories 2

Treatment agreement book

1. Xenopro Professional IPL can only drive away some pigment usually need to divide treatment once each time, the color of pathological change district will disappear gradually.
2. There may be transient hydroncus after treating the pain and purple, should abide by therapists and medicine (because may leave the scar after infecting).
3. There may be a little purple after treatment, and it disappears after two weeks.
4. Protect the surface of a wound carefully (do not press touch) the surface of a wound forms a scab and comes off by oneself in two weeks.
5. Don't contact water, don't make up, don't rub with the heads in treated par, don't drink, refuse to obey the aspirin medicine, don't carry on the facial mask, should pay attention to lightproof and sun-proof, otherwise will produce the pigmentation.
6. Don't participate in violent sports while treating and healing in case that too much sweat makes convalescence Length.
7. Because the difference on the individual stores to the sensitiveness that the better pulse smooth in, some patients present the pigmentation after treating usually disappearing in 3-6 months, the specific skin reflects the heavy ones it may take one year.

8. The color disappear completely or should stop treating when not becoming light further again after numerous treatment.
9. Some scar physical person may reflect the scar.
10. May want numerous treatment, advice subsequent visit according to the therapist.
11. Need to take a picture and file before and after treating, Has already read and found out about the above-mentioned matters relating to treating the precautions, and can carry out the therapists to advice on request.

Parameter Settings

Attention: When you set the parameters you must insist on the following principle: less pulse pieces(also pulse number), narrow pulse width and long pulse delay.

一、 The principle of adjustment for parameters:

- 1、 Adjusting pulse width according to spots color (First-P and Ser-P) .
- 2、 Setting up pulse pieces according to personal skin complexion (Numbers) and adjusting pulse delay (First-D and ser-D)
- 3、 Adjusting the value of pulse width for the patient according to present feedback in operation in advance (First-P and Ser-P), then adjusting the value of pulse delay (First-D and ser-D)
- 4、 Persisting in adjusting energy from lowness to highness, moving on from ear to face, last, decreasing the energy to move on eyelid.
- 5、 Energy increases and decreases as per 1~2 joules from basic value.

| Name of Parameters | Skin rejuvenation 1 | Freckles 2 | Vascular lesions 3 | Hair removal 4 |
|-----------------------|---------------------|------------|--------------------|----------------|
| Numbers | 2~3 | 2~3 | 2~3 | 3~4 |
| Cycle(discharge time) | 1 | 1 | 1 | 1 |
| First-P | 2.0~3.0 | 2.2~3.0 | 2.1~3.0 | 3.0~4.5 |
| First-D | 15~35 | 15~35 | 15~35 | 15~35 |
| Ser-P | 3.0~3.5 | 3.2~3.5 | 3.1~3.5 | 4.5~8.5 |
| Ser-D | 20~40 | 20~40 | 20~40 | 20~40 |
| Energy | 10J(start) | 10J(start) | 10J(start) | 15J(start) |

Attention:

When you treat the patient, you must notice: one treatment course is at 4-6 times, and each treatment interval is about four weeks.

The care for skin for patient after treatment:

1. protect skin from sun irradiation
2. keep skin watery
3. Can not bathe hot water in 24 hours

The patient who has the following symptoms **can not** treat with IPL:

1. Has the genetic skin cancer from family.
2. Sensitive skin to optical light (general symptom: itch and red spots)
3. Being violently irradiated by sun recently.
4. Pregnant woman can not receive treatment from IPL.