

DUAL Yellow 578nm / Green 511nm LASER

BISON
MEDICAL EQUIPMENT MANUFACTURER



COPPER BROMIDE

Yellow/Green/Dual/Y10G/Y30G

Experience New Wave for New Promise



Superior Laser Technology
Immediate Improvement in Appearance
Flexible, Effective Improvement
Effectiveness Proven by Independent Clinical Trials
Minimizing Skin Damage with Excellent Control
Bloodless Lesion Removal
No Purpura Response

GREAT CONTROL OF YELLOW AND GREEN ON DIFFERENT LESIONS DELIVERS UTMOST RESULTS WITH REDUCED SKIN DAMAGE

COPPER BROMIDE

Copper Bromide (CuBr) laser is a high-tech laser resolving various skin problems quickly and effectively. As a medical device of CVL, CBL method of dual wavelength which is said to be the highest class technology all over the world among the lasers currently released in the market, can display maximum effect due to its differentiated laser technology.



Dual Wavelength of the Copper Bromide Laser

The 511nm/578nm laser wavelength emitted from the copper vapor laser can be emerged in dual form through one fiber in mixed combination and, in addition, since the user can separate the two wavelengths in selective manner, the painless, visible, immediate and satisfactory best result can be brought to each lesion for which the user wants to see the effects.

Selective Use of the 5 Different Kinds of Dual Wavelength

Thanks to the various design to suit each lesion of the user, different combination of dual wavelengths such as

	511nm(100%) , 578nm(100%)
	511nm(10%) , 578nm(100%)
	511nm(30%) , 578nm(100%)
	511nm(0%) , 578nm(100%)
	511nm(100%) , 578nm(0%)

etc can be selectively used to suit each lesion. So, the greatest effect suitable to each lesion can be achieved.

Fast Heating and Cool-Down

Differently from the existing copper laser which requires about an hour for heating and cool-down, surgical operation with the Copper Bromide can be started immediately within 5~10 minutes after power switch 'On' and also 5~10 minutes will be enough to cool-down after power switch 'Off'.

The benefits of laser auto-calibration

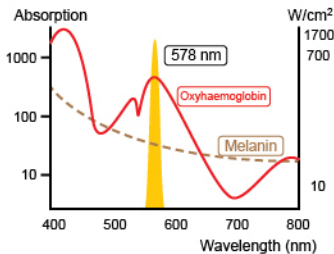
Due to the genuine photo-diode sensor, users are enabled to benefit from consistent laser output without the need to bother with the sophisticated process behind it. It guarantees more stable procedures with more dramatic results.

Gaussian mode & Top Hat mode

The advantage is that the hand piece can be exchanged to treat different lesions using the Gaussian mode and the Top Hat mode. This helps with the access to thin vascular lesions such as telangiectasia in laser toning.

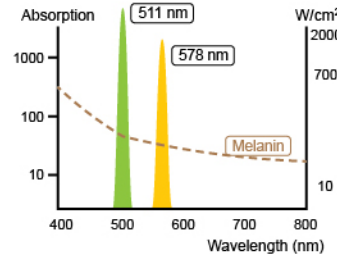
Recognized for Innovative Copper Bromide Laser

Vascular Lesions (Yellow 578nm)



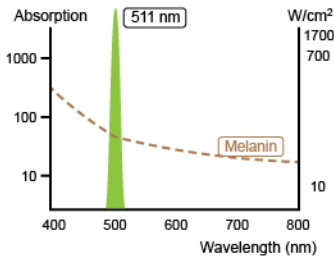
578nm Yellow wavelength matches with the peak absorption in hemoglobin and treats only the targeted vascular lesion without bruise or damage of surrounded normal tissue.

Bulky Lesions (Yellow 578nm + Green 511nm)



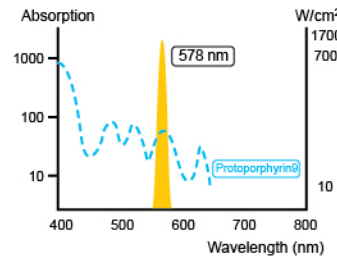
Both Mode (combination of Yellow and Green wavelength) treats the targeted bulky lesions, using more powerful fluence with shorter downtime and less risk of any side effect. Especially, it is very safe and effective when treating bulky lesions with Melasma.

Pigmented Lesions (Green 511nm)



511nm Green wavelength is absorbed by melanin effectively and treats only the targeted pigmented lesions without any subsidiary damage of normal tissue.

Acne / PDT Lesions (Yellow 578nm)



578nm Yellow wavelength is effective in treating active acne and improves acne Erythema at the same time. Yellow wavelength reduces the possibilities of a recurrence by destroying acne bacteria and shrinking the sebaceous gland itself.



◀ Sleep mode

The sleep mode of the Copper Bromide Laser to extend its life time.

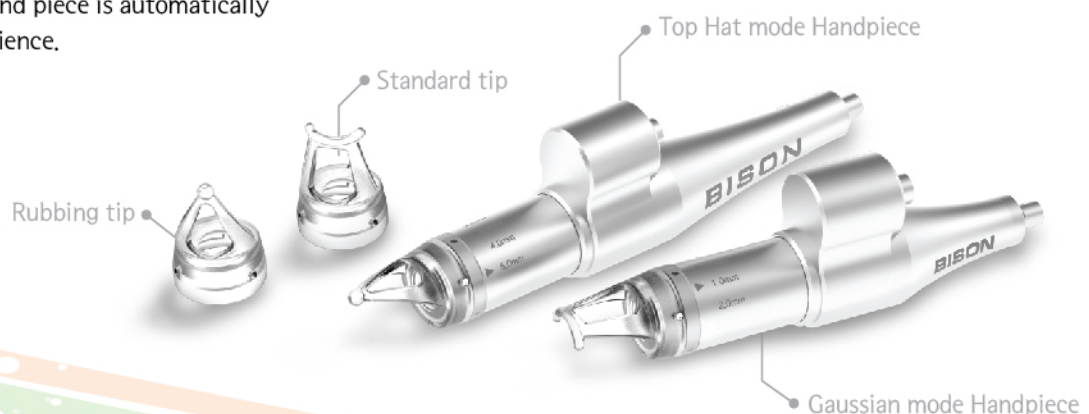
This allows use without wasting energy due to the rapid heating and cool-down, and the sleep mode, to extend the life time of the tube for efficient and long-term use.

Automatic recognition system with various spot sizes

The Copper Bromide laser can be changed to 6 different spot sizes to fit the size of the lesion for efficient treatment. Changing the spot size of the hand piece is automatically recognized for increased convenience.

Spot Size

0.6mm, 1.0mm, 2.0mm,
3.0mm, 4.0mm, 5.0mm



New Generation System

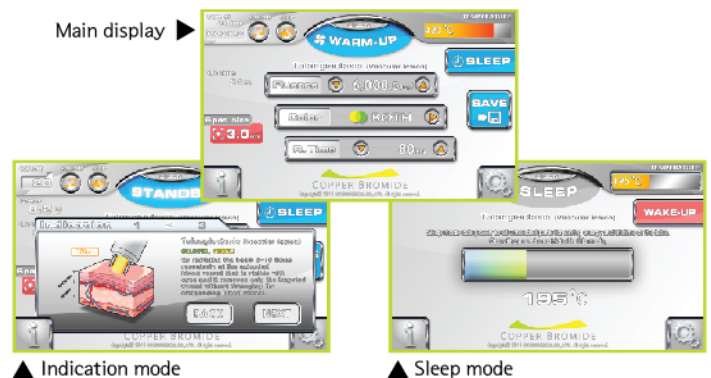
Copper Bromide Laser, as the monument of our intensive research activities for development for last three years with our long accumulated knowhow, has excellent safety and treatment capability.

- More diversified indication
- Convenient surgical operation - Securement of space by the separation of body and control module
- Auto-Control spot size - Automatic application to parameter with the dialing of handpiece

New User Interface Design

Copper Bromide Laser is the very first dual yellow laser of medical device to which highest level of GUI (Graphic User Interface) is implemented through the long accumulated knowhow of our company and user testing. In addition, based on the user feedback, the newest and best condition is kept all the time.

- Top level of safety is ensured through the perfect synchronization with system
- The best interface where various information can be seen at a glance
- User interface is simpler, easier to read
- Intuitive and quick response with the icon button
- 15 or more indication mode and 9 storage memory
- Implementation of information of each indication in a graphic and text

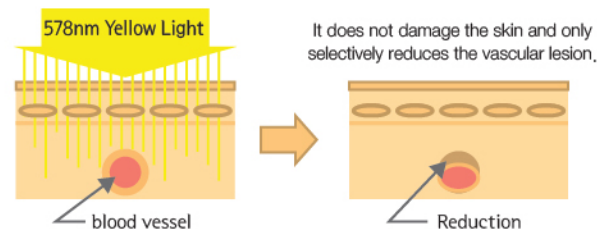


▲ Indication mode

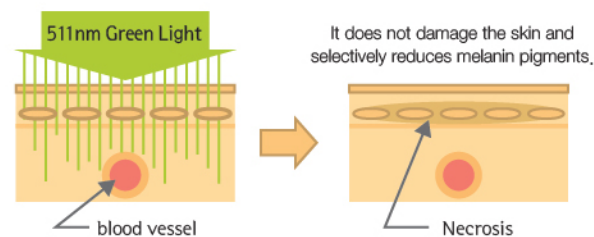
▲ Sleep mode

Absorption wavelength of melanin pigments and vascular lesion of dual wavelength laser

Dual wavelength laser is the most effective laser for treating melanin pigments and vascular lesion, and is effective for treating both of pigment lesion and vascular lesion.



The yellow light (578nm) of the dual wavelength laser does not affect other tissues and selectively reduces vascular lesion.



The green light (511nm) of dual wavelength laser does not damage other tissue and selectively destroys melanin pigments for effect.



Excellent effect! Laser without pain and side effects!

The two wavelengths, Yellow 578nm, and Green 511nm make it a highly efficient laser to treat both vascular lesions and pigment lesions.

A dramatic improvement in the skin tone immediately following treatment.

Experience the highly effective and safe technology of BISON MEDICAL!

The effect of Copper bromide laser

The greatest advantage of this laser is that it not only leads to whitening of the skin, but also treats red nose, facial flushing, red acne scars, pigment lesions for immediate improvement in the skin tone, and also treats red scars following cosmetic surgery, small wrinkles and lifting. It is particularly effective against melasma.

Patients who receive the treatment

This treatment is extremely fast, and it is popular with busy workers and students as the treatment can be done during lunch time and does not affect your daily life.

Treatment duration

No anesthetics is needed, and the treatment can be started after simple cleansing of the skin. The procedure is very quick and you can put on make-up or shave after cooling down and finishing the skin treatment.

Laser without side effects or damage to the skin

The surrounding skin tissues are not damaged. Only the areas that need treatment are selected to reduce treatment time, pain and shorten the recovery time, resulting in a dramatic change.

Laser without the need for anesthetics

Most lesions do not need anesthetics, so the treatment can be done around 2-5 passes.

Before



After



Copper Bromide Laser System

General

Dimensions (W x D x H)	370(W) x 1320(D) x 1010(H) (mm)
Weight	190 Kg
Weight including accessories	205 Kg
Main voltage	220-240 VAC, 50-60Hz
Maximum power, in operation	1700 W
Safety class	Class IV laser

Laser system

Laser type	Copper Bromide Laser
Wavelength	511nm(100%) , 578nm(100%) 511nm(10%) , 578nm(100%) 511nm(30%) , 578nm(100%) 511nm(0%) , 578nm(100%) 511nm(100%) , 578nm(0%)
Beam mode	Multi mode
Spot size (Automatically adjustable)	0.6mm / 1.0mm / 2.0mm 3.0mm / 4.0mm / 5.0mm
Fluence on the skin	75 - 2500 J/cm ² at spotsize 0.6mm 30 - 900 J/cm ² at spotsize 1.0mm 7 - 222 J/cm ² at spotsize 2.0mm 3 - 99 J/cm ² at spotsize 3.0mm 2 - 55 J/cm ² at spotsize 4.0mm 1 - 35 J/cm ² at spotsize 5.0mm
Pulse duration	10 ~ 1000ms, Continuous wave
Delivery system	Via optical fiber
Cooling system	Air

Environmental Condition

Temperature	+10 ~ +40 °C
Relative humidity	30 ~ 75 %
Atmospheric pressure	700 ~1060 hPa

Vascular lesion

Telangiectasia(Vascular lesion)
Hot flashes
Nosal vascular lesion

Pigmented lesion

Freckles
Lentigo
Melasma
Cherry angioma
Dark circle

Bulky lesion

Warts
skin tags

Etc.

Acne
Scar
Brightening
Skin rejuvenation
Wrinkles