QuickLase™

Welcome to WebTrain

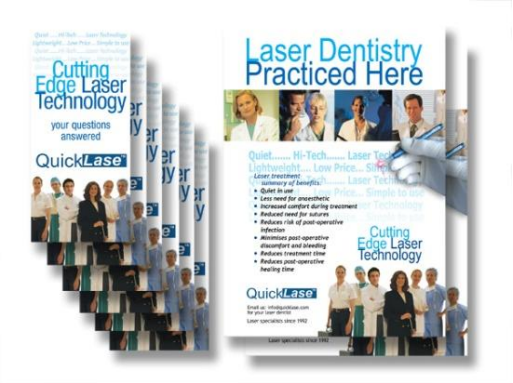
The QuickLase units

3w/4w/5w/8w/10w
810nm

6w/12w Dual
810 + 980nm

12w Dual Plus
810 + 980nm

Accessories



http://www.quicklase.com/product-category/laser-accessories/

The complete patients marketing Q&A

IMPORTANT fibre optic connectors handling

QLSTP310513RG

Arrêt! STOP! Parar! قف!

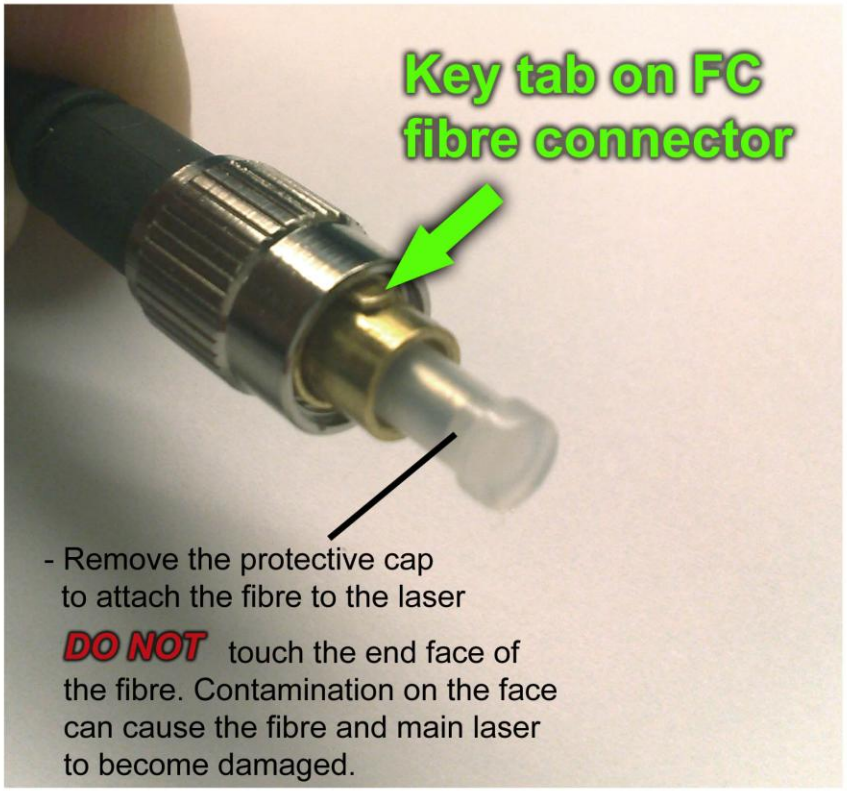
WARNING

DO NOT TOUCH THE END OF THE FIBRE CONNECTOR

Any contamination will damage the fibre and diode laser. Always fit protection caps if removing the fibre.

Fibre Connection Guide - FC with key tab

Ensure that the fibre 'Key tab' aligns with the socket key slot



QuickLase™ dentaLase

Connecting the fibre optic cable

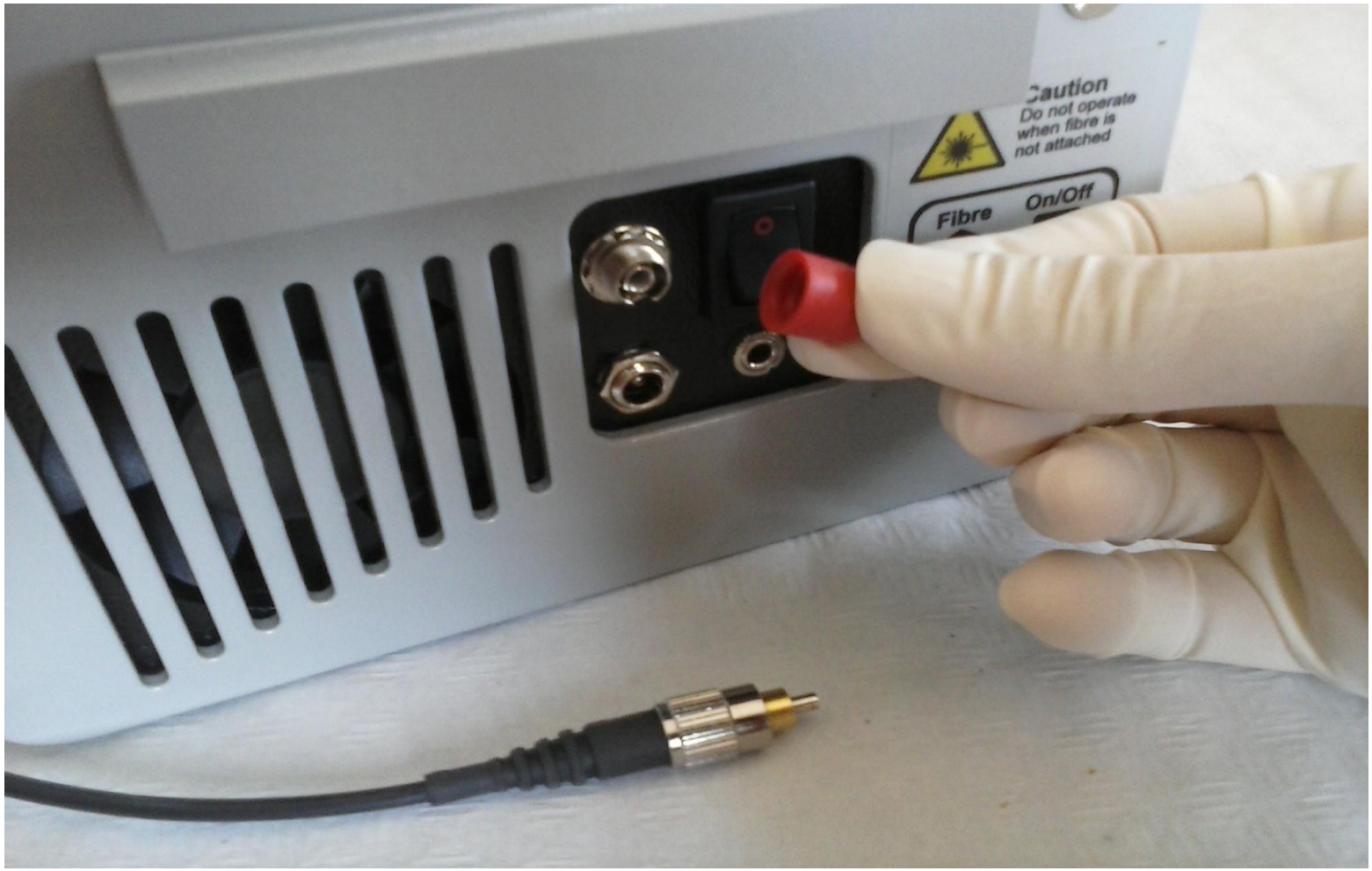
*Step 1 - **Take off the fibre protection cap and keep***

IMPORTANT: DO NOT touch end of the fibre

If not connected put the caps back on the fibre and laser connector

Connecting the fibre optic cable

*Step 2 - **Take off the laser fibre protection cap and keep***



IMPORTANT: DO NOT touch end of the fibre

If not connected put the caps back on the fibre and laser connector

Connecting the fibre optic cable

*Step 3 - **Insert fibre end & screw-in tight***

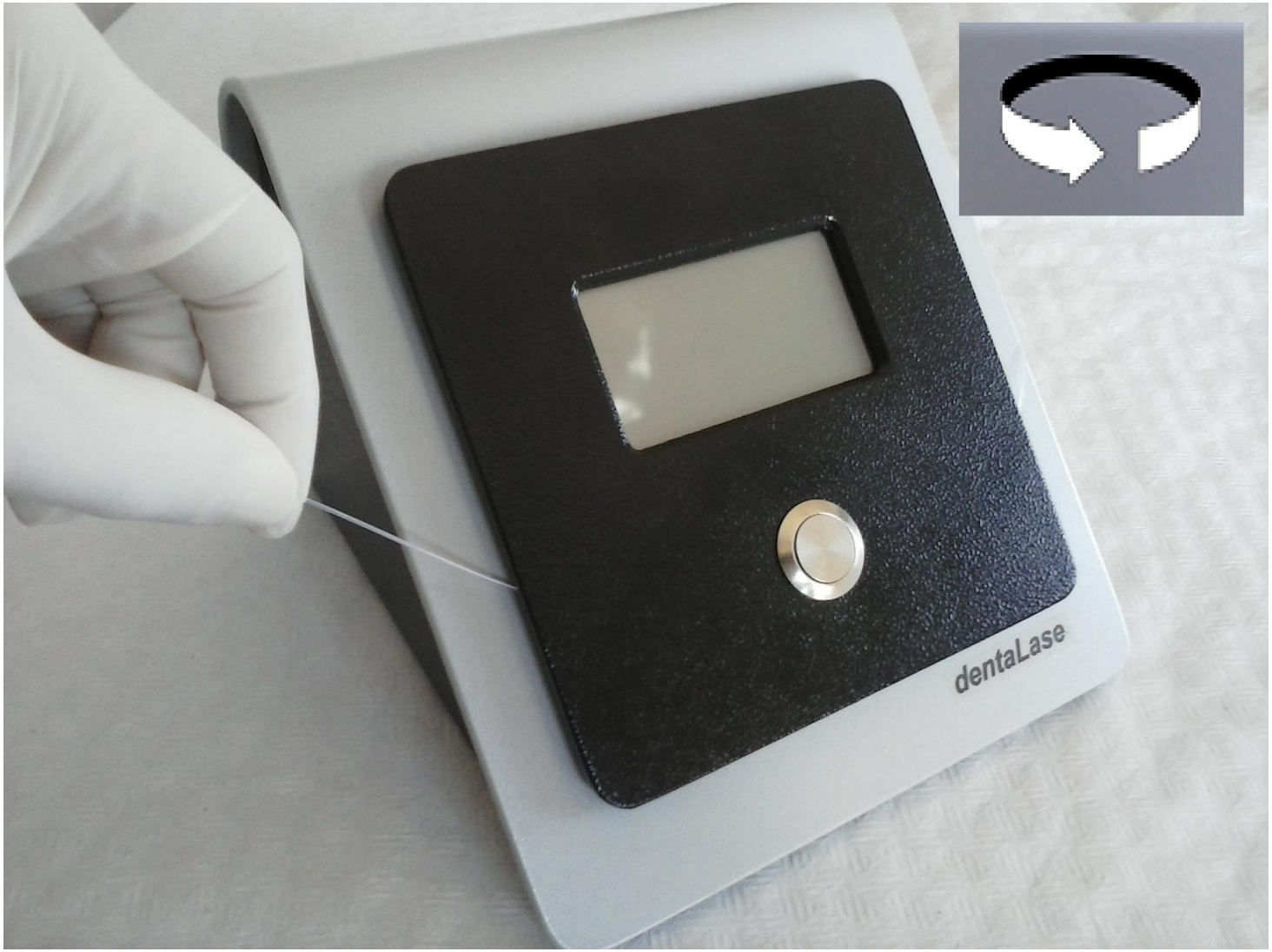
Once connected, DO NOT disconnect to prevent dirt entering into the fibre connections.

Do not operate unless the fibre optic cable is fully attached!

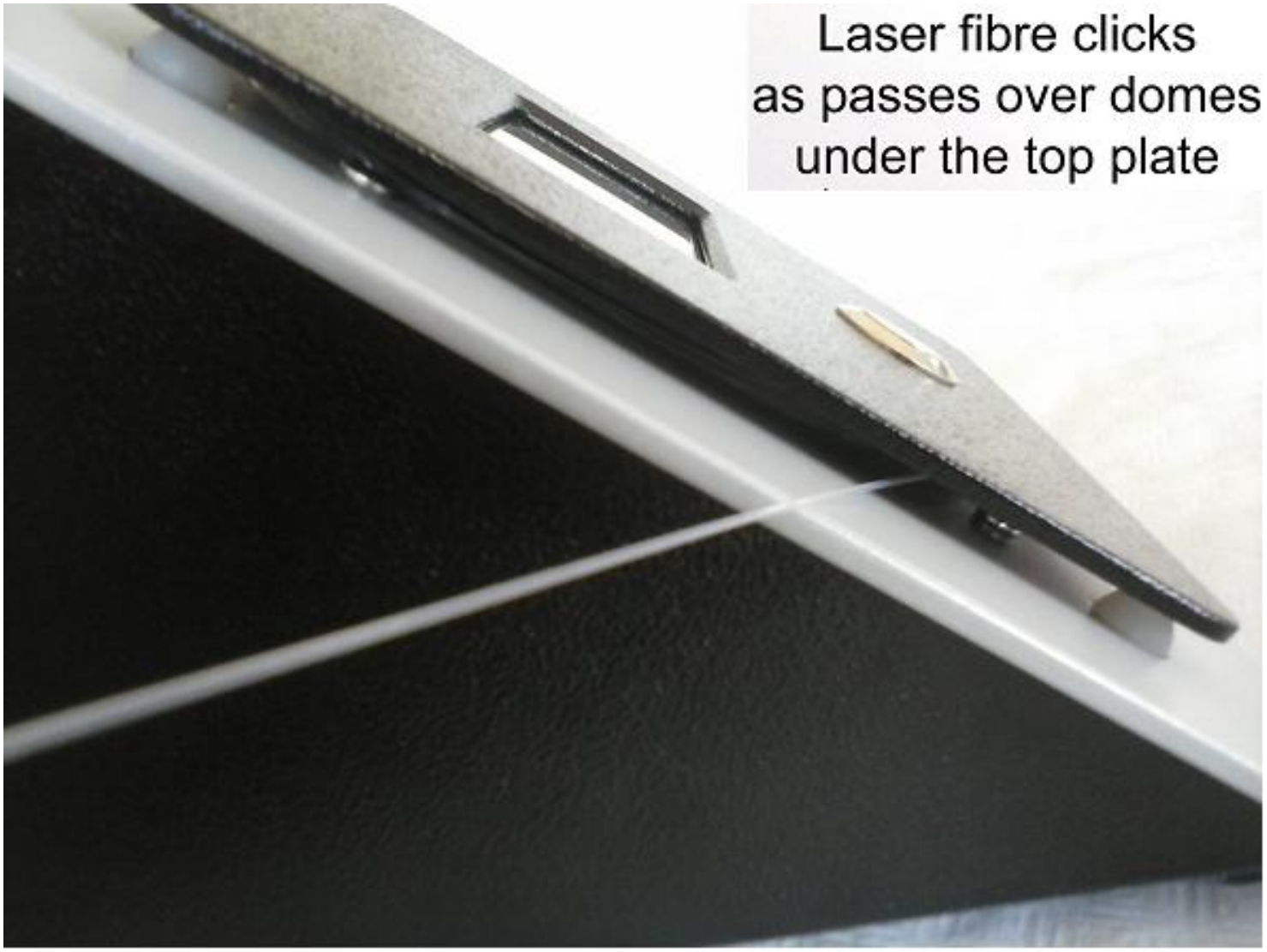
Connecting the foot pedal

Plugging in the power connector

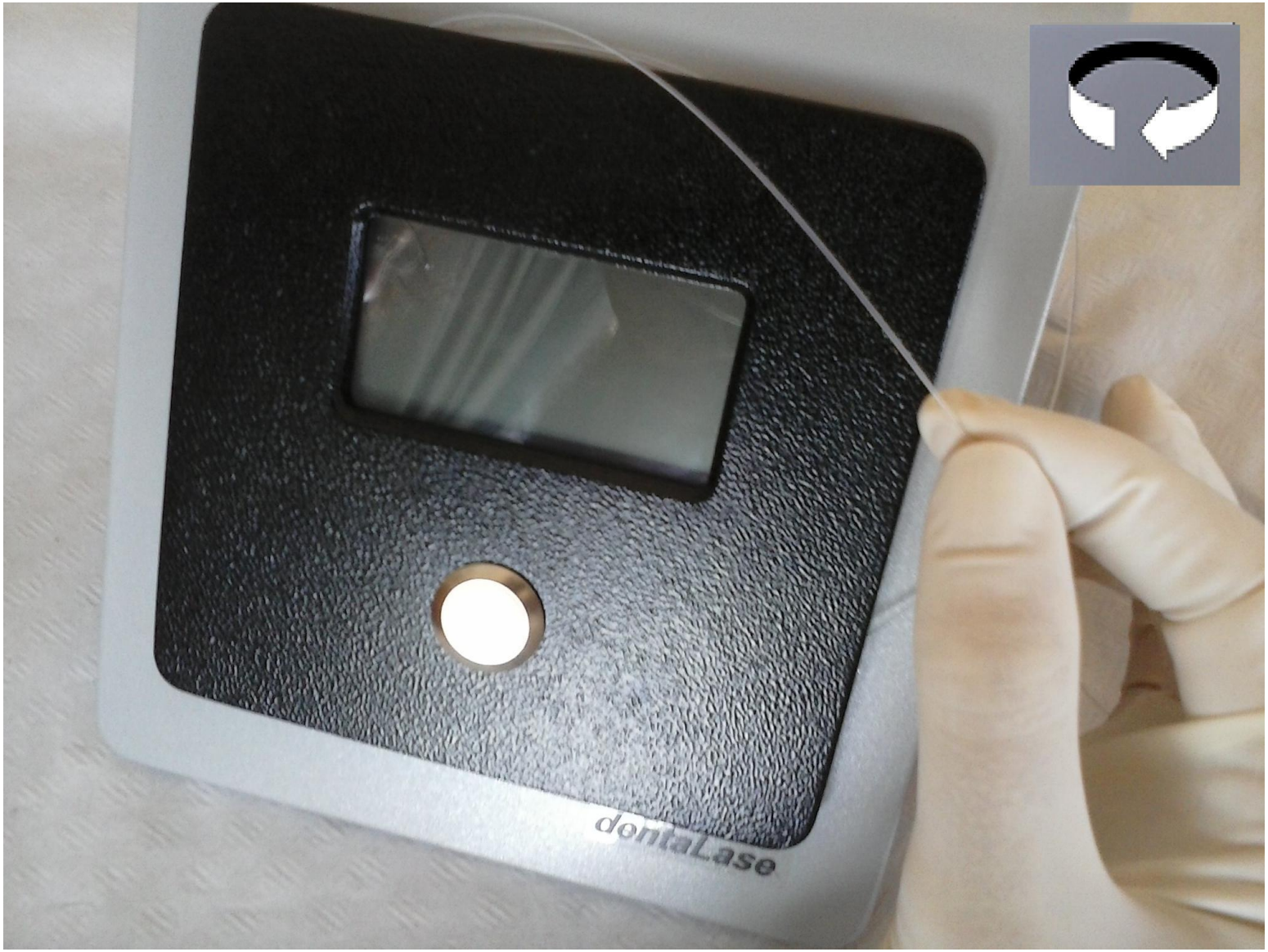
Winding out the fibre optic cable



Built-in fibre storage



Winding in the fibre optic cable



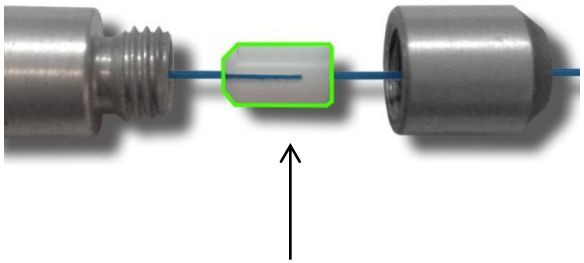
Comparing QuickLase handpiece to burr handpiece

Your burr handpiece cuts hard tissue, dentaLase cuts soft tissue

- *Held exactly the same as burr handpiece*
- *Cuts on touch like burr handpiece*
- *Works like burr handpiece, press & drag*

The strippable fibre hand piece

Disposable tip



Fibre restrainer

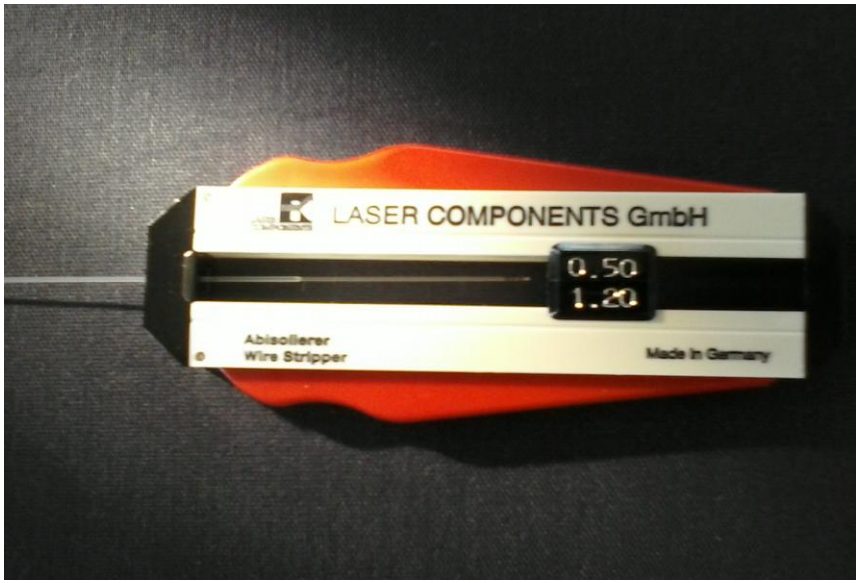
Handpiece can be autoclaved but take out the white fibre restrainer. The disposable white tip can not be autoclaved.

To pass fibre optic through handpiece, bend disposable tip straight for fibre to pass.

Stripping the fibre cable

Insert the fibre through the end of the stripper upto the marker

(push marker to the right)

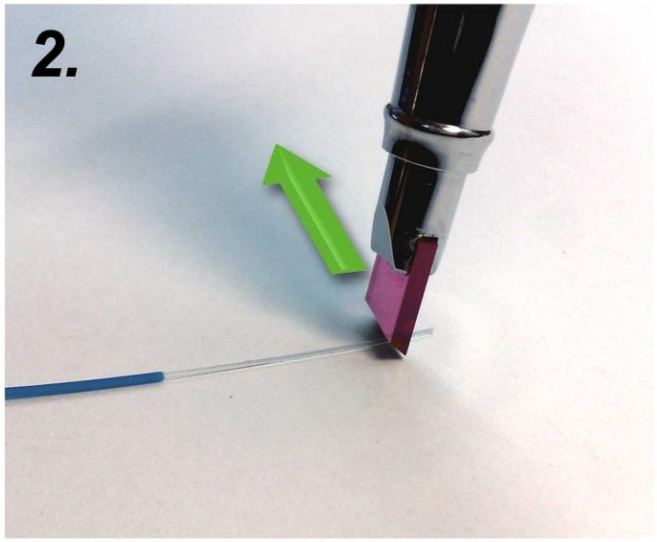


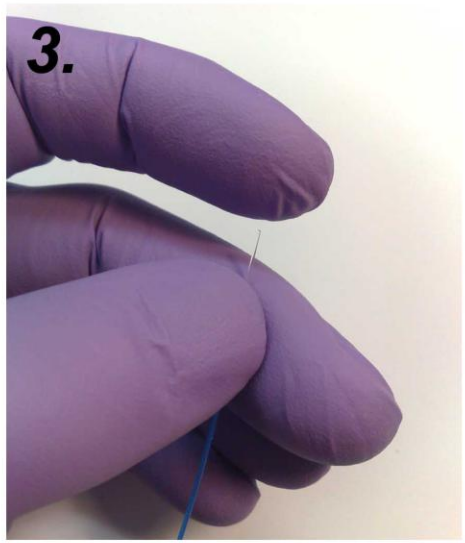
Press and hold top and bottom orange latches and then pull the fibre to the left to strip

Make sure the stripped bit is no longer than 8cm otherwise it will be too long for the handpiece

Ruby Scribe Tool Pen

Occasionally you will need to cleave the end of the fibre (approx. 3mm) if you find the cutting performance is affected. After cleaving you must carbonise the tip as per the training / Manual.





1. When using the tool never push down through the fibre as this will damage the edge of the ruby scribe tool.

The objective is not to cut the fibre but only to score it creating a break point.

2. After you have stripped the outer coating using the fibre stripper, place the fibre end on a flat surface.

Then simply scratch/score the fibre with very light pressure at the point you wish to make the cleave (approx.3mm)

3. Once the fibre has been scored it will very easily break away to give you a fresh cutting face.

Hold the fibre near the end and gently brush/stroke the very tip. The old discarded fibre end will fall away.

Always replace the protcetive cap onto the tool to protect the scoring edge.

If you do not have a scribe tool you can use a fresh scalple blade to scratch/score the fibre

Checking the aiming beam

Hold the handpiece with the aiming beam turned on over a white surface to check the cleave.

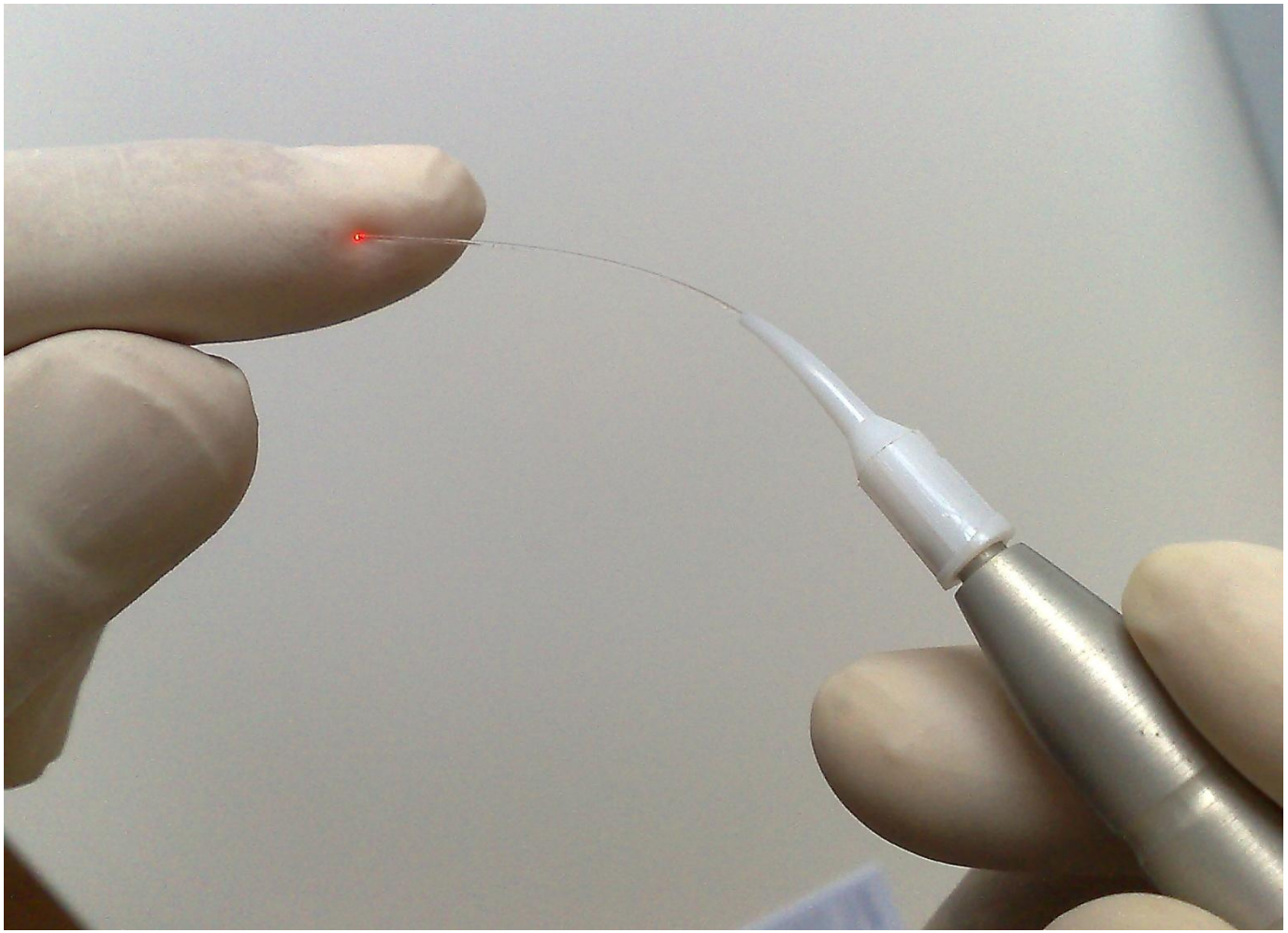
If you have a poor cleave, you can re-cleave or initiate the tip using articulating/dark ink paper.

Always wear protective glasses before lasing

Initiating (carbonising) the fibre optic

Hold the handpiece less than 90 degree angle to avoid reflection and then lase into dark inked paper

Checking the fibre optic



Make sure the fibre is not brittle, if it is, it will snap then you must re-carbonise

Optional handpiece

Non-strippable fixed fibre
non-sterilisable hand piece

*Handpiece cannot be **autoclaved**, chemi wipe only.*

Changing the disposable tip with built in fibre is simple. Bendable tips but more expensive than strippable fibre disposable tips.

Operation foot pedal

Press to operate

QuickLase Dentalase colour coded screens

- Designed with colour coded screens for faster navigation
  - Blue is the key entry authorisation screen
  - Green is the laser power & cutting mode selection screen
  - Purple is the preset procedures screen
  - White/Light blue is the language selection screen for prests
  - **Red** is the lasing (cutting/ablation) & aiming beam screen

- Designed for ease of use with preset procedures
  Troughing, Crown lengthening, Implant Recovery, Frenectomy, Gingivectomy, Perio, Endo, Whitening, Ulcers, De-pigmentation, LLLT and other applications

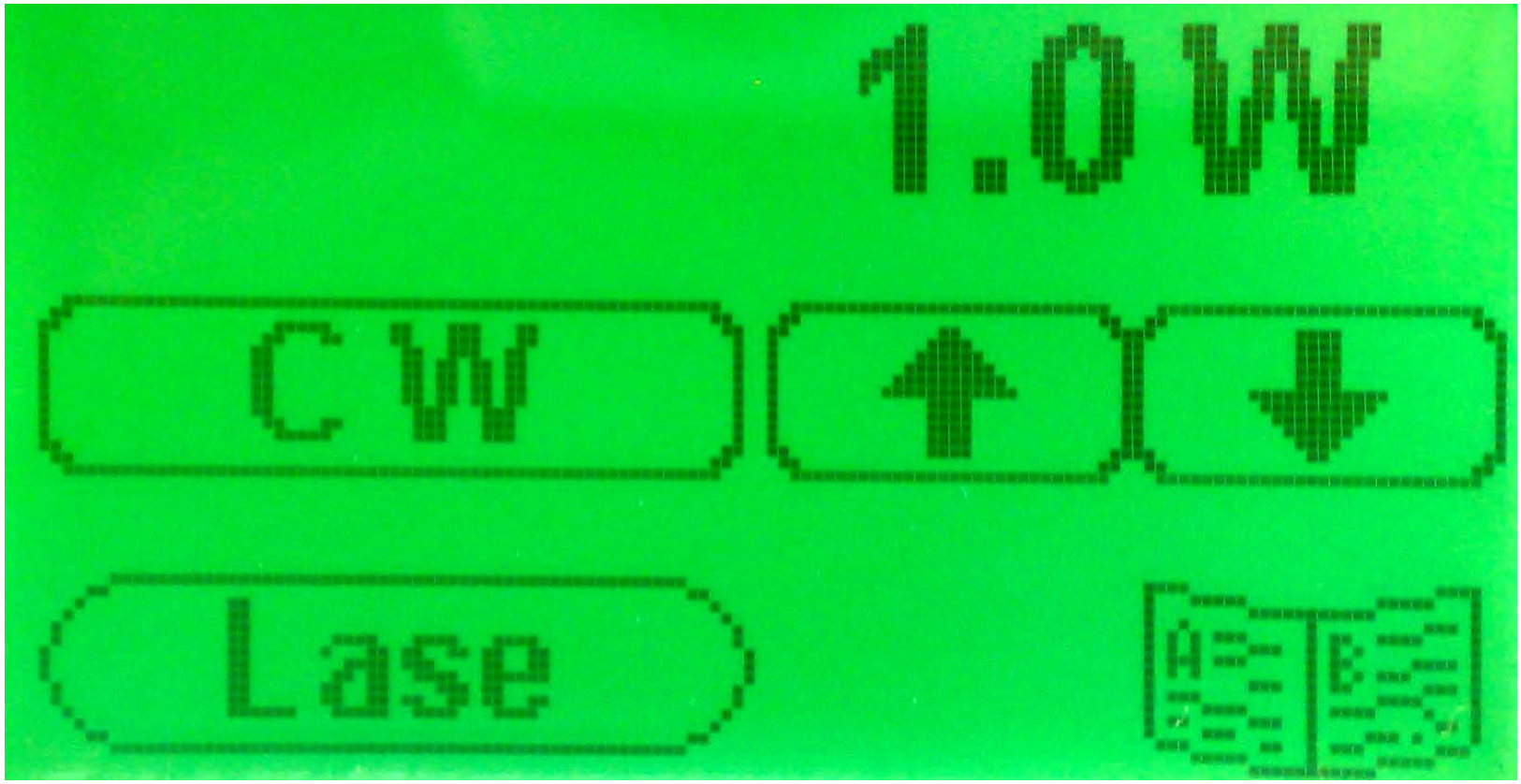
- Power selction to suit your procedures

If your laser is the 6w/12w dual go to page 34

Blue screen - Enter Pin screen
3w/4w/5w/8w/10w (810nm)

Enter Pin Code: 1243 then press enter 

Green screen - laser power and cutting modes
3w/4w/5w/8w/10w (810nm)



Green screen - laser power with preset procedures 3w/4w/5w/8w/10w (810nm)

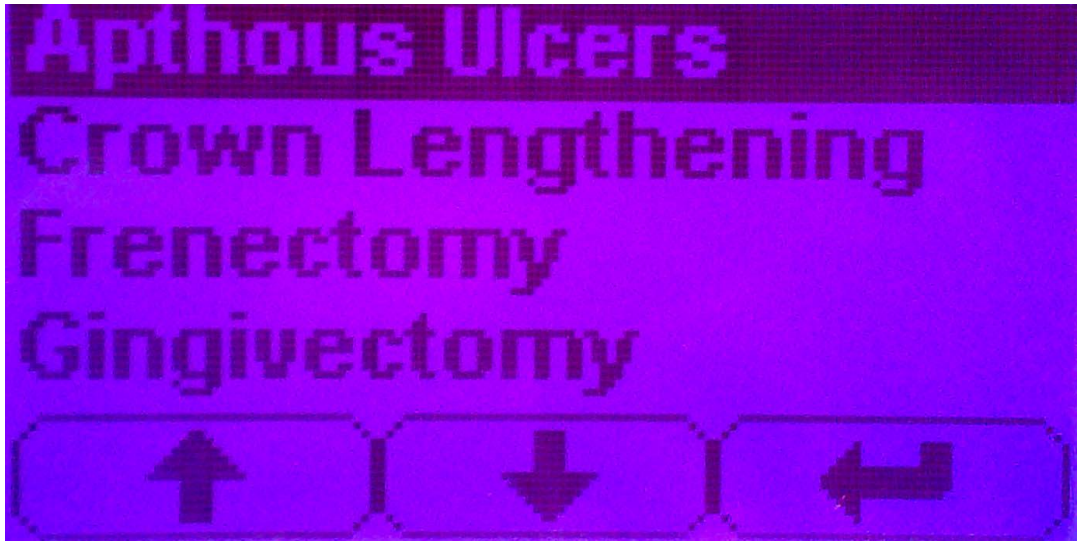
1	Pulse rate 10, 20 and 50Htz	4	Laser power
2	Pulse mode / CW mode see below	5	Laser power adjustment
3	Lase button to get into the lasing mode	6	Pre-sets procedures button

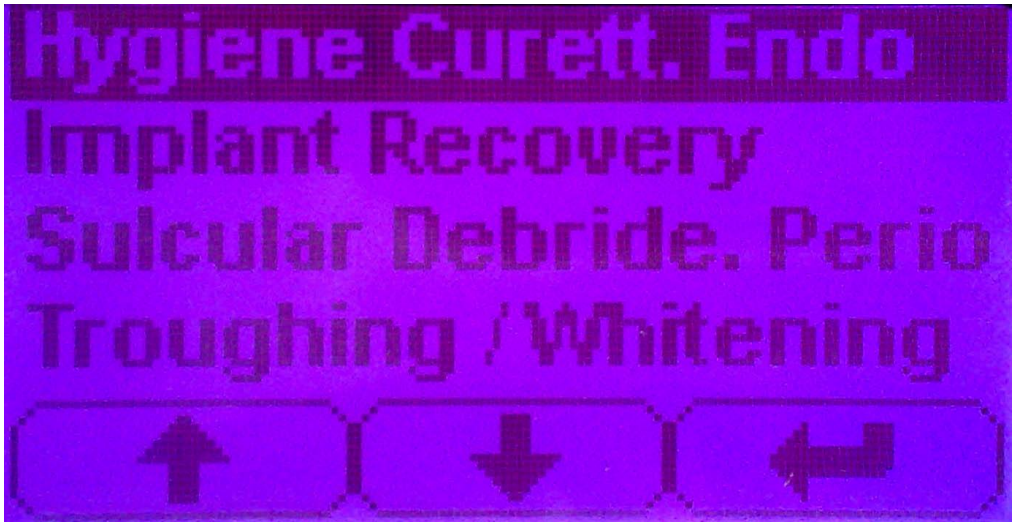
You can select the **laser power settings** by pressing the up & down arrows buttons 5, also select the **cutting mode** by pressing the Pulse/CW button 2.

To select a **pre-set procedure** press the icon no. 6, if you select for example whitening or therapy procedure a ‘T’ will appear next to the power indicating a 30 secs timed exposure at 2W power. If you press and hold button 6 for about 5 seconds, you can enter into the **language selection** screen, see bellow.

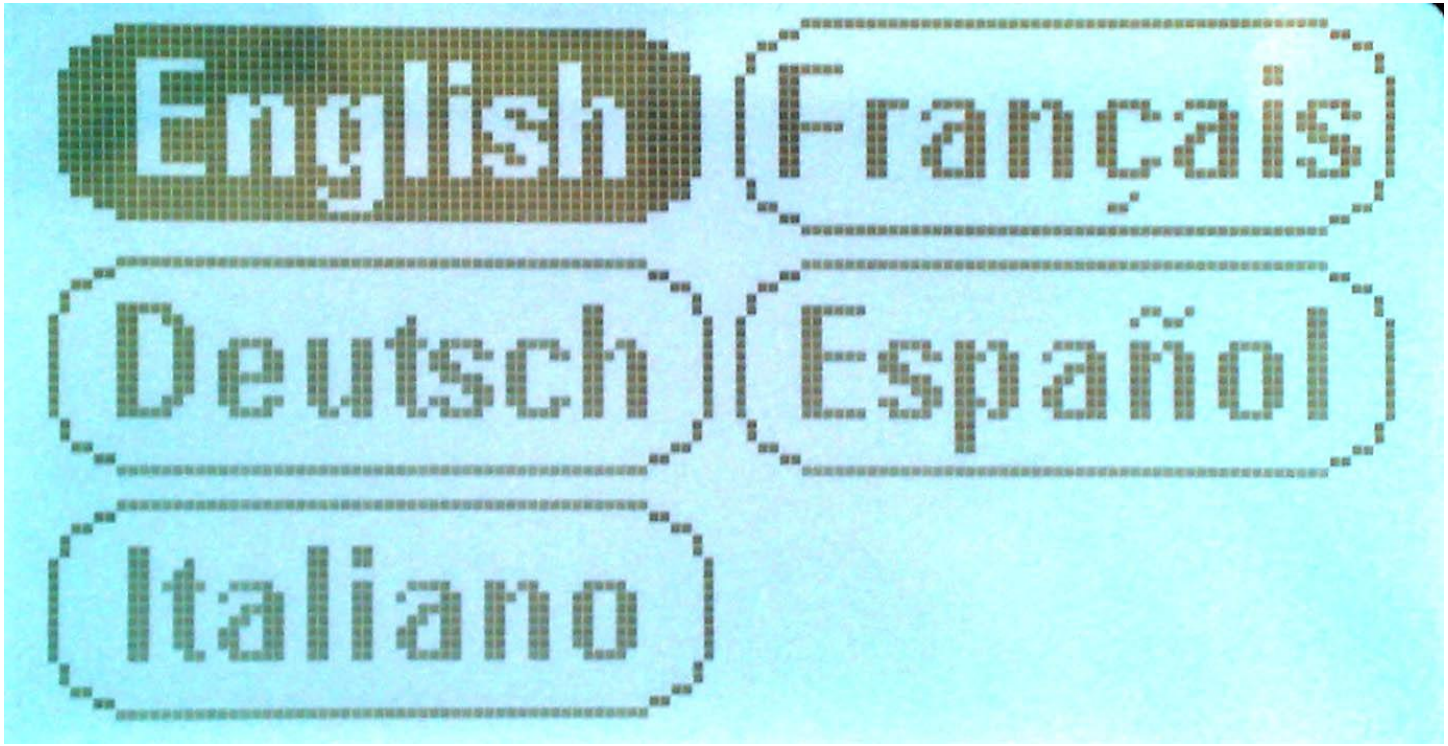
Pressing Lase button 3 will take you into the **red Lasing/cutting** screen. Press buttons 1 to select **Pulse duration** or enter the **adjust Pulse duration** on/off.

Purple screen - Preset procedures 3w/4w/5w/8w/10w (810nm)





White light blue screen - Languages selection for presets 3w/4w/5w/8w/10w (810nm)



Red screen - Lasing and Aiming beam screen 3w/4w/5w/8w/10w (810nm)

1	Pulse rate 10htz is selected	4	3.5w, arrows to adjust power
2	Pulse mode is selected	5	Aiming beam intensity selector icon
3	Lase button, press to return/stop lasing	6	Laser triangle indicating lase mode

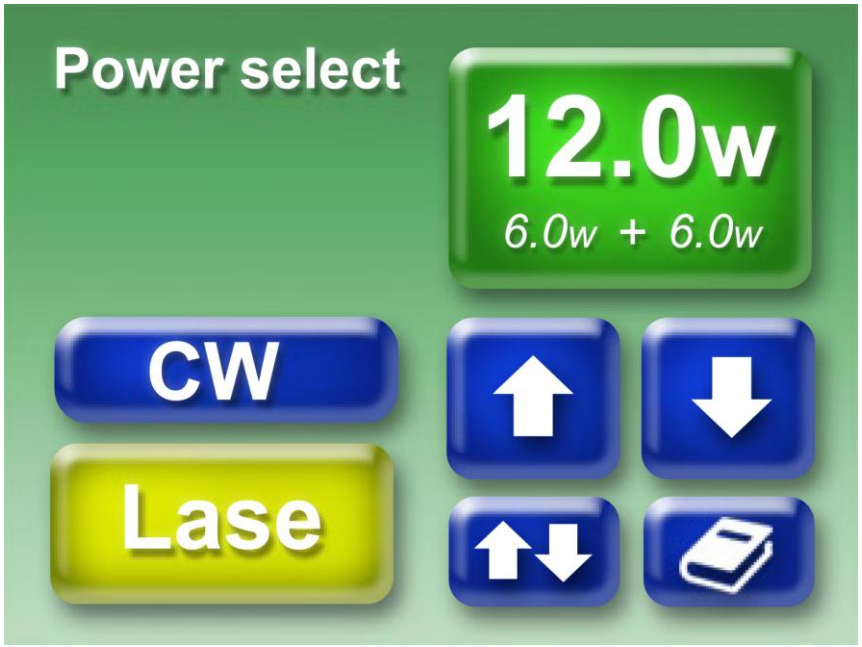
Blue screen - Enter Pin screen

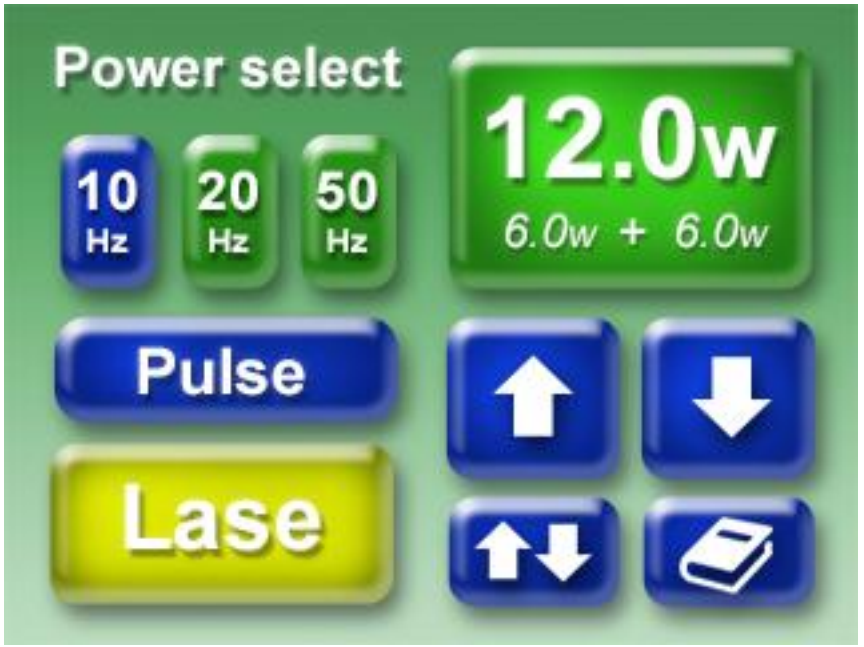
6w/12w Colour (810+980nm)

Enter Pin Code: 1243 then press enter

Green screen - laser power and cutting modes

6w/12w Colour (810+980nm)





Continuous screen

Pulsed screen

You can select the **laser power wattage** by pressing the up & down arrows also select the **pulse or continuous mode** by pressing the Pulse/CW button.

Select **Pulse duration** (preset) either 10, 20 or 50Hz or enter the **adjust Pulse duration** on/off (adjustable), by selecting the double arrow button at the bottom of the screen.

To select a **pre-set procedure** press the booklet icon on the bottom right, if you select for example whitening or therapy procedure a ‘T’ will appear next to the power indicating a 30 secs timed exposure at 2W power.

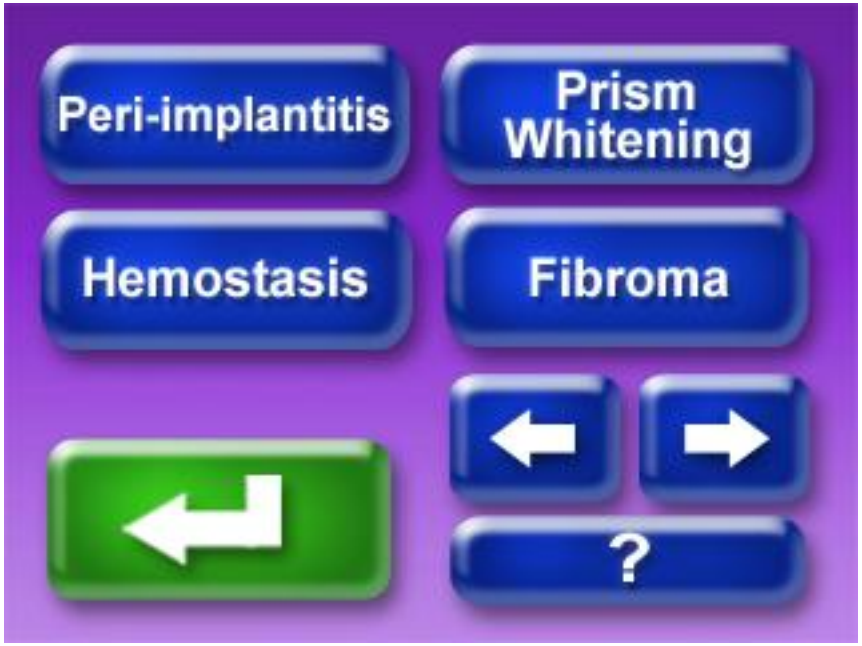
Hold the booklet button for about 5 seconds, to enter into the **language selection** screen, see bellow.

Press the **wattage display** button on the top right, to enter into individual **wavelength 810nm+980nm power selection/adjustment**.

Pressing Lase button will take you into the **red Lasing/cutting** screen.

Purple screen - Preset procedures

6w/12w Colour (810+980nm)



White light blue screen - Languages selection for presets

6w/12w Colour (810+980nm)

Red screen - Lasing and Aiming beam screen

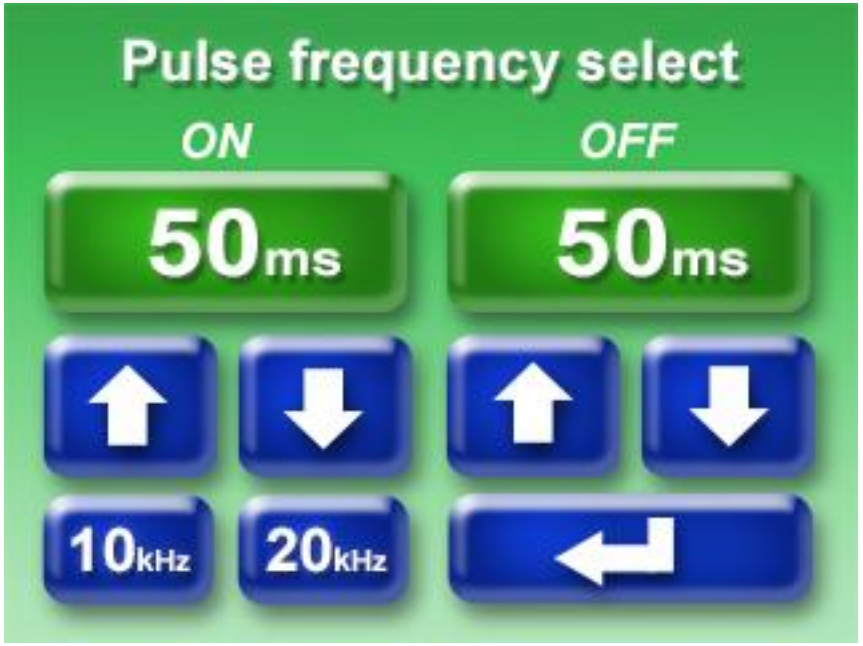
6w/12w Colour (810+980nm)

Continuous screen

Pulsed screen

Individual wavelength power settings & pulsed frequency

6w/12w Colour (810+980nm)



810 & 980nm settings

Adjustable & pre-set for 10,000 & 20,000 Hz

Procedures help screens
6w/12w Colour (810+980nm)

Apthous Ulcers

Power: 2.0w Pulse
Fibre: NOT initiated

This is a completely non-surgical procedure, which means the laser fibre never touches the tissue.

Isolate the area of the lesion and aim the laser fibre at the lesion. Do not make contact; rather keep the laser fibre 2-3mm away from the lesion. Wave the laser fibre over the entire lesion for approximately 30 seconds.

No anaesthetic is necessary

Perio

After your normal perio procedure, place the fibre into the perio pockets and use the laser setting in the pre-sets.

Lase for 30 seconds - repeat for 3 times by pulling the fibre up and down in a brush effect motion into the perio pockets.

Can be used with or without irrigation but not alcohol based. No need to initiate the fibre.

Auto Step Lase Function

STEP LASE: *When you enter the Red 'Lase' screen and press the foot pedal down for the first time the power will ramp up to your selected power setting (approx. 1-2 seconds).*

Thereafter, each time you press the foot pedal the output will start at and remain at the actual power chosen.

This function is helpful for the dentist to adjust to the power output as well as for patient comfort.

Wear protective glasses provided

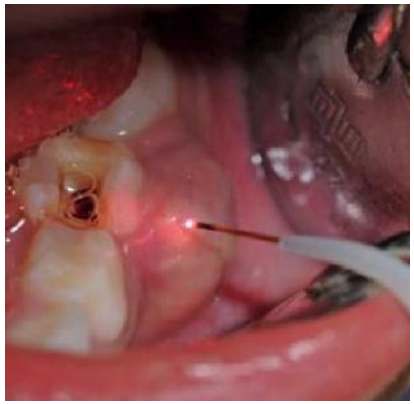
The ***dentaLase*** diode laser system is safe and reliable when used by trained personnel who take proper care in their operation.

 CAUTION	The ***dentaLase*** diode laser is a Class 4 laser system. Precautions should be taken to avoid accidental exposure to both directed and reflected laser beams. Severe eye or skin damage may be caused by diffused reflections as well as speckle of the laser beam. Wear protective glasses.

 CAUTION	The laser beam from most of laser diodes is usually not visible to the human eye, which can seriously damage retinal tissue. □ **DO NOT** look directly into the laser beam or into the working end of the optical fibre. Reflected laser beam may also cause retinal damage. □ Avoid aiming the laser beam in the direction of reflective surfaces.

Stick the yellow caution sticker on your surgery door

You can download more of these labels from our website,
www.quicklase.com/product/caution-sign/



Abscess Incision

Gingivectomy

Crown Lengthening

Troughing

Frenectomy

Accurate Impression

Gingivectomy

Immediate results, no scalpel or sutures. Final impressions can be taken at the same appointment, maximum convenience, maximum accuracy.

Apthous Ulcers

Desensitise painful apthous ulcers; pain will typically stop within hours of treatment, enhancing the healing process.

Frenectomy

Bloodless and suture free release of the maxillary and mandibular frenums. Improved access for oral hygiene, close orthodontic diastemas and improvement of impaired speech.

Curretage

Non-surgical periodontal treatment allowing access to deeper calculus deposits.

Gingivoplasty

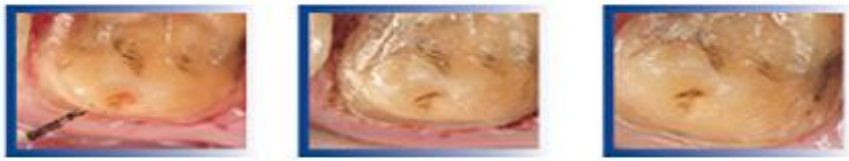
Remove redundant or hyperplastic tissue within a bloodless field with minimal - if any post operative pain.
Impressions can be taken at the same visit for maximum convenience.

Crown Lengthening

Minimum pain and bleeding, no scalpel or sutures and no post operative shrinkage. Predictable results each time.

plus many more procedures

Troughing



Laser troughing, when used as part of a dentist's impression technique, can greatly improve long term gingival cosmetic results. Great fitting restorations with no marginal shrinkage.

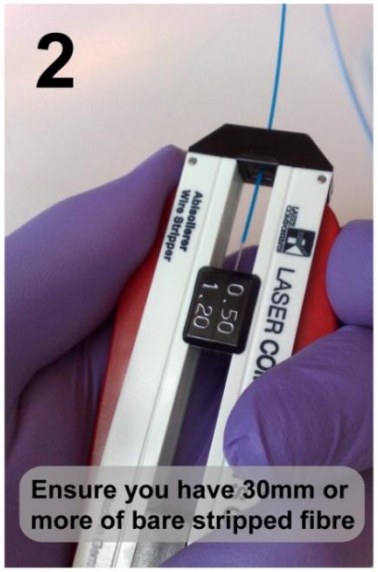
the future is in your hands

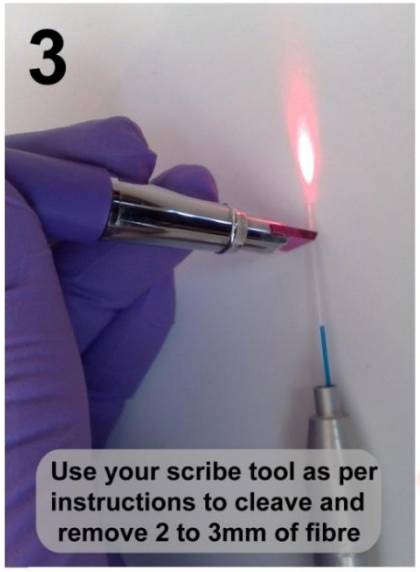
QuickWhite™
QuickLase™

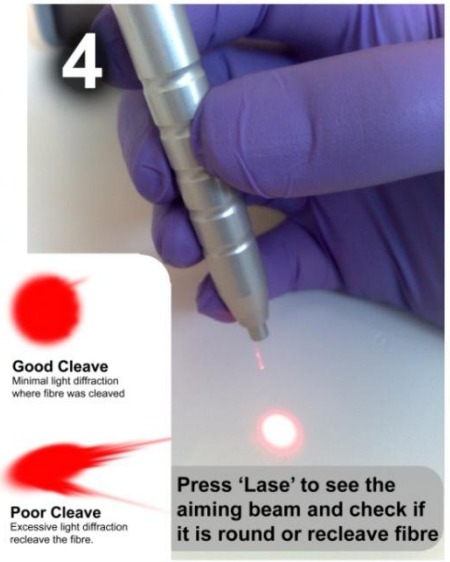
Laser Whitening

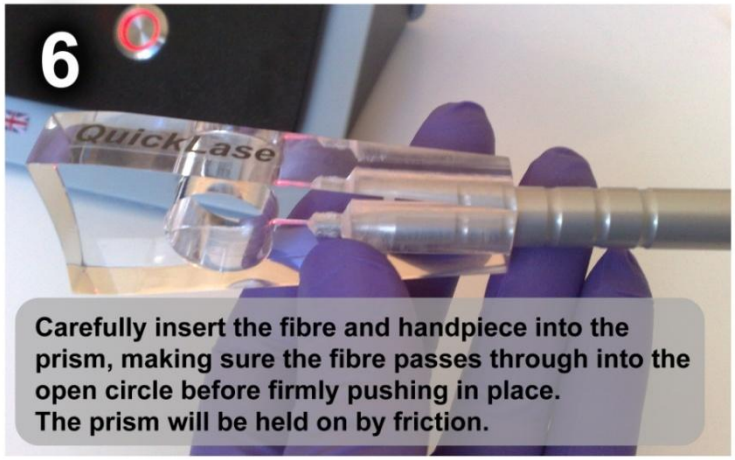
QLPrsmWT240513RG

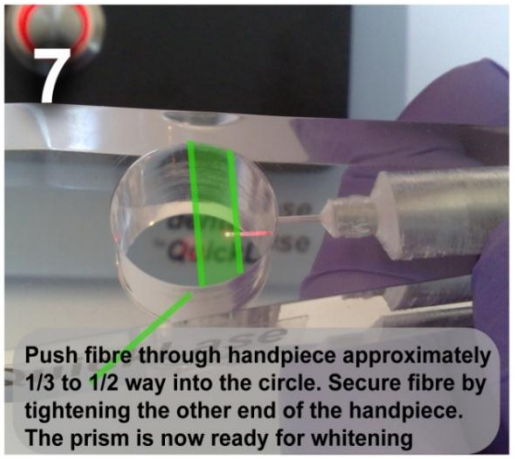
QuickLase™ Whitening & Therapy Prism Instructions











Some of the uses of a diode laser

- Soft Tissue Management & Cutting

  Gingivectomy, Troughing (accurate impression), Crown lengthening & veneers tissue re-contouring (Gingivoplasty), Tissue flap, Papillectomy, Frenectomy Vestibuloplasty, Tooth exposure, Implant Recovery, Perio, Endo, Ortho

- Oral Hygiene Management & Sterilisation

  Laser Sulcular Debridement, Curettage, Dry socket, Ulcers and Root Canal sterilisation, lowering the risk of cardiovascular diseases & septicemia

- Homeostasis & Faster Healing time

  Stops bleeding, Tissue welding and healing (Low Level Laser Therapy - LLLT)

- Cosmetics

  Teeth Whitening , smile design and gum pigmentation removal

Some of the benefits using a diode laser...

- No shrinkage - Accurate margins for veneers and crowns

- No retraction cord - Creates better contouring for accurate impression

- Bloodless - Coagulation of bleeding tissue & clear vision

- Sterilisation for root canal & perio pockets

- Less damage to soft tissue - No collateral damage

- Simple removal and shaping of soft tissue surface

- Unlike ElectroSurgery *(no need to allow for margins - can touch bone & implant, can use with pacemaker & high blood pressure patients)*

- Fast recovery - no post-op swelling and pain

...Some of the benefits using a diode laser

- Less traumatic

- Less Anaesthesia

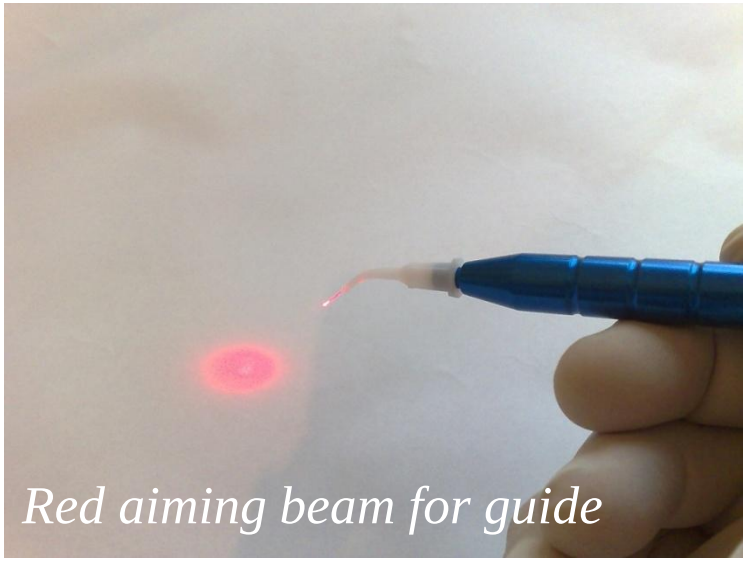
- Faster recovery

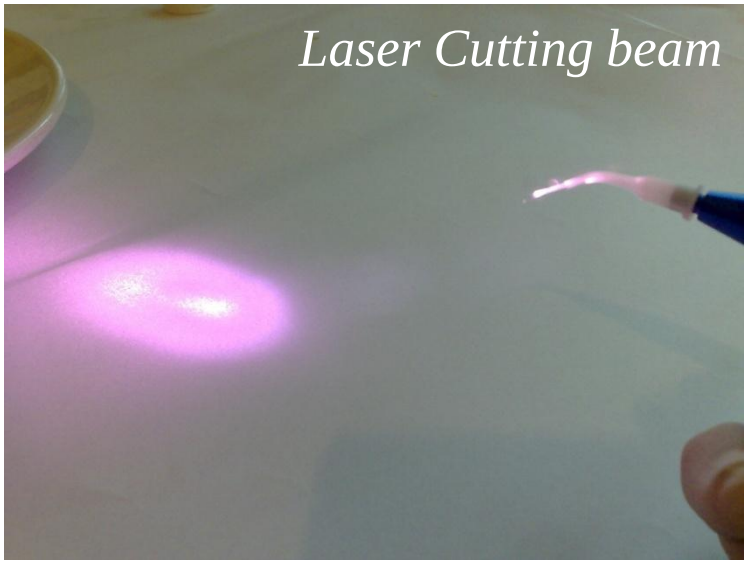
- Decreased practice time

- Control bleeding

- Antisepsis (Kills bugs)

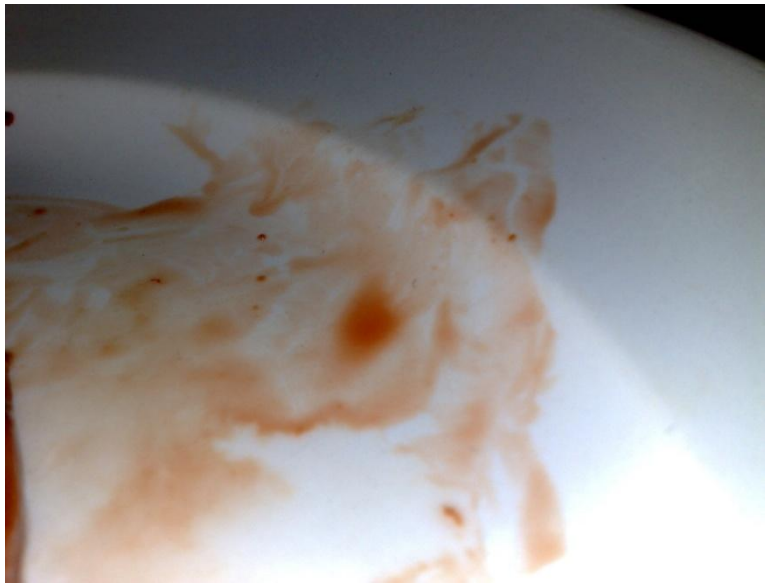
- Reduced fatigue & Stress

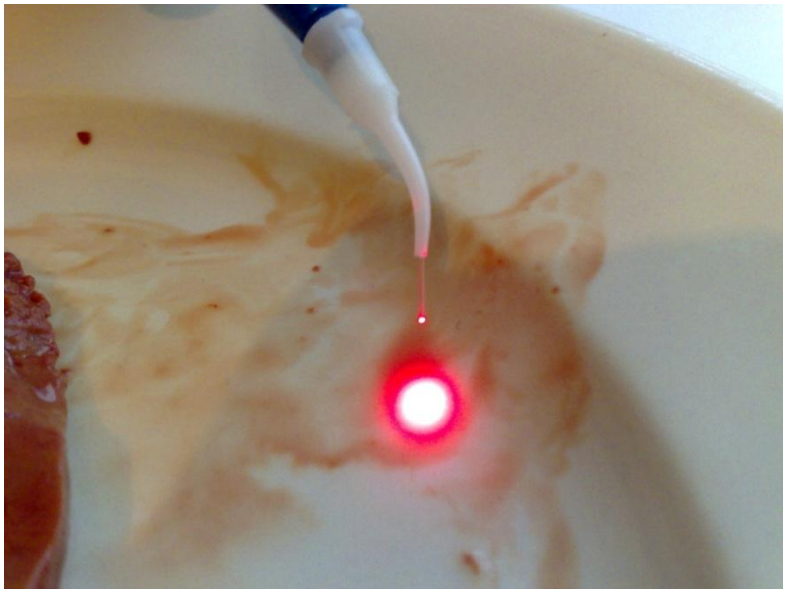

Red aiming beam for guide


Laser Cutting beam

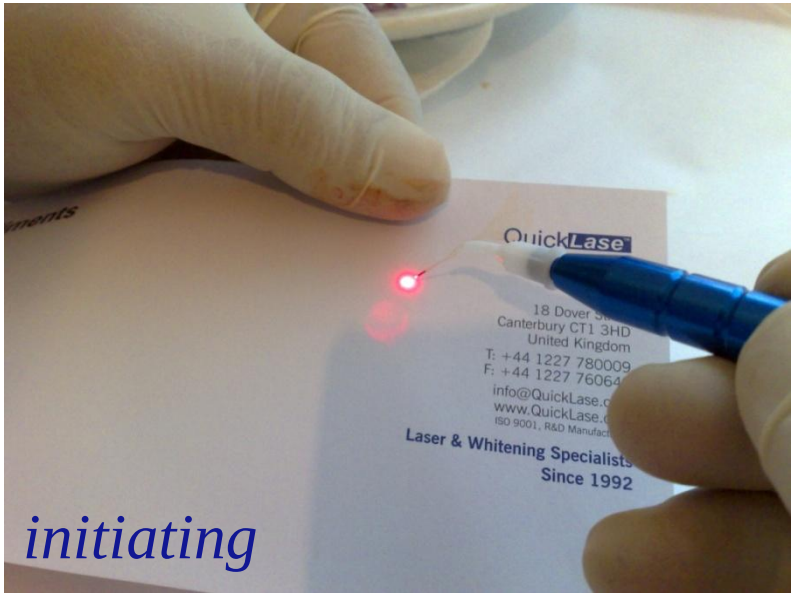

Must wear glasses,
do not look into the cutting beam

Homeostasis






No damage to
hard tissue


QuickLase
Laser & Whitening Specialists
Since 1992
initiating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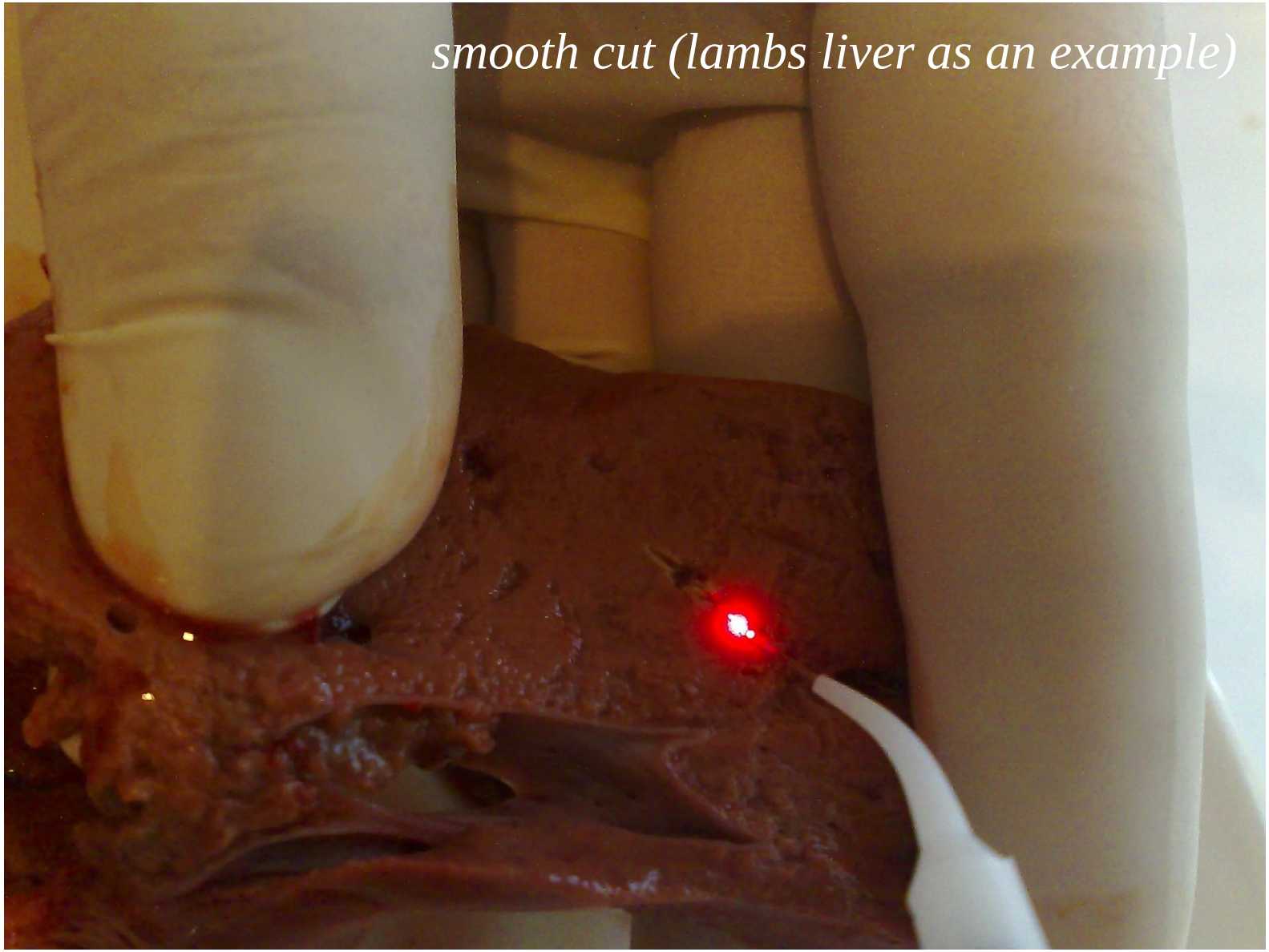
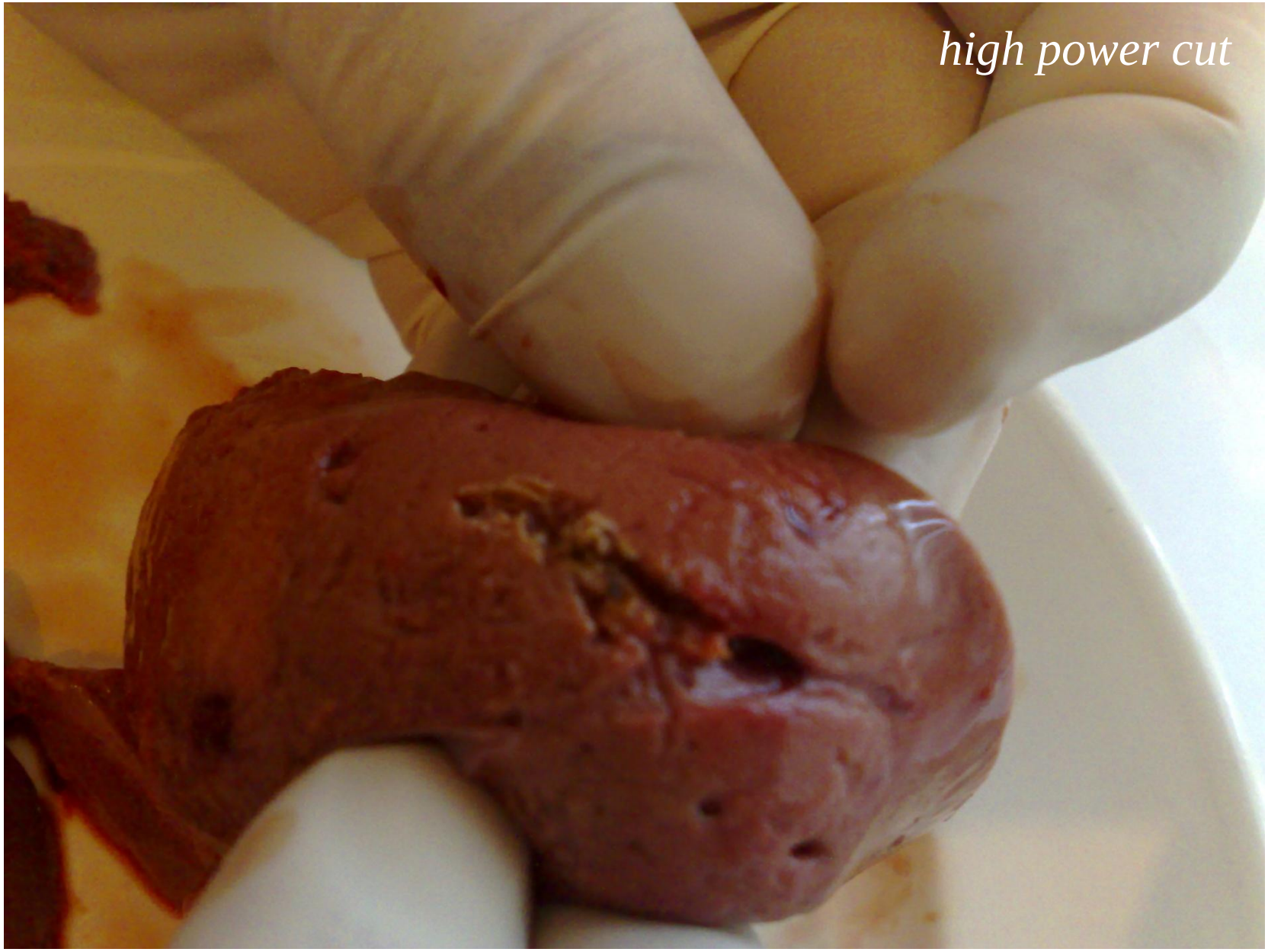
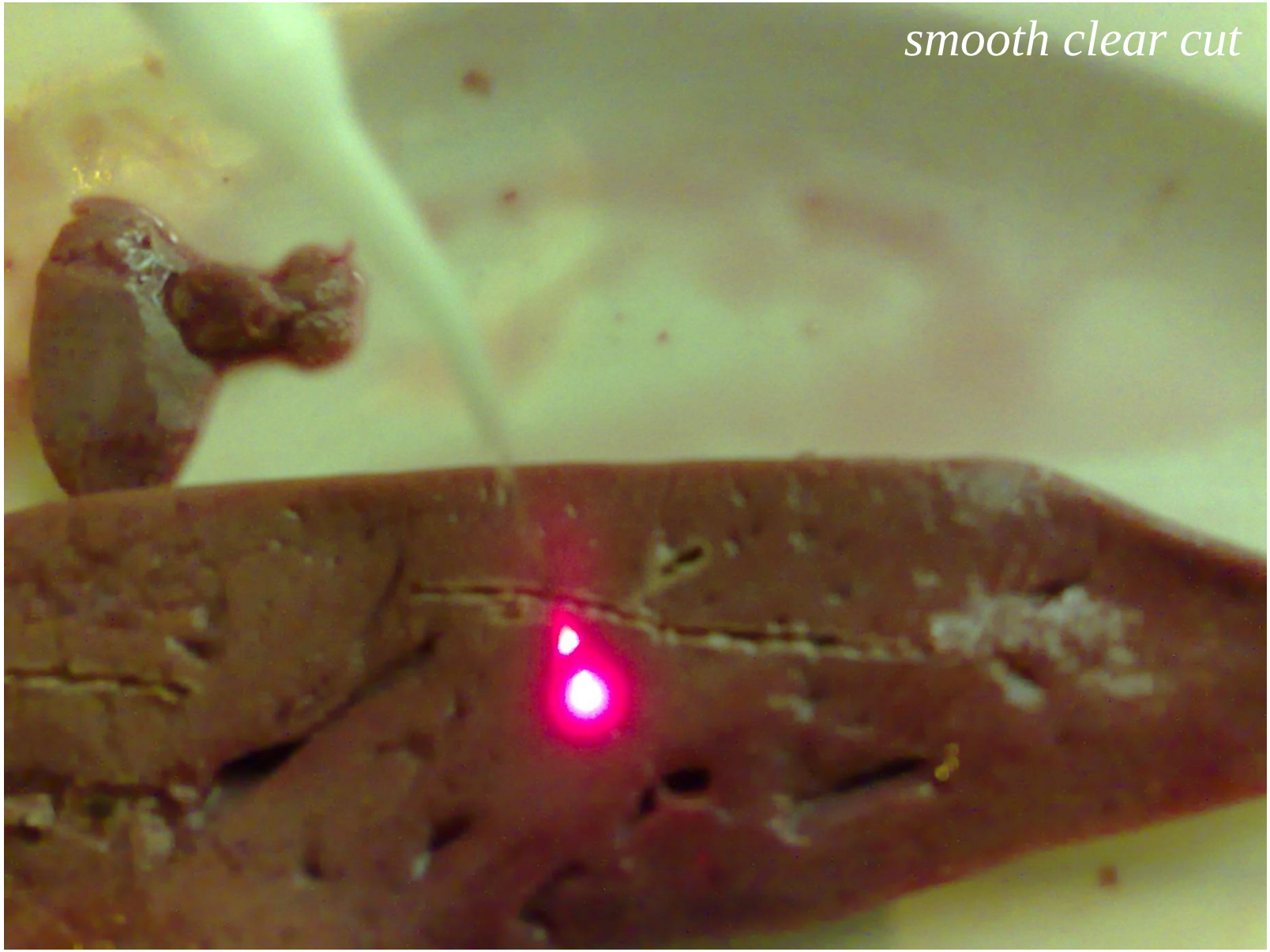
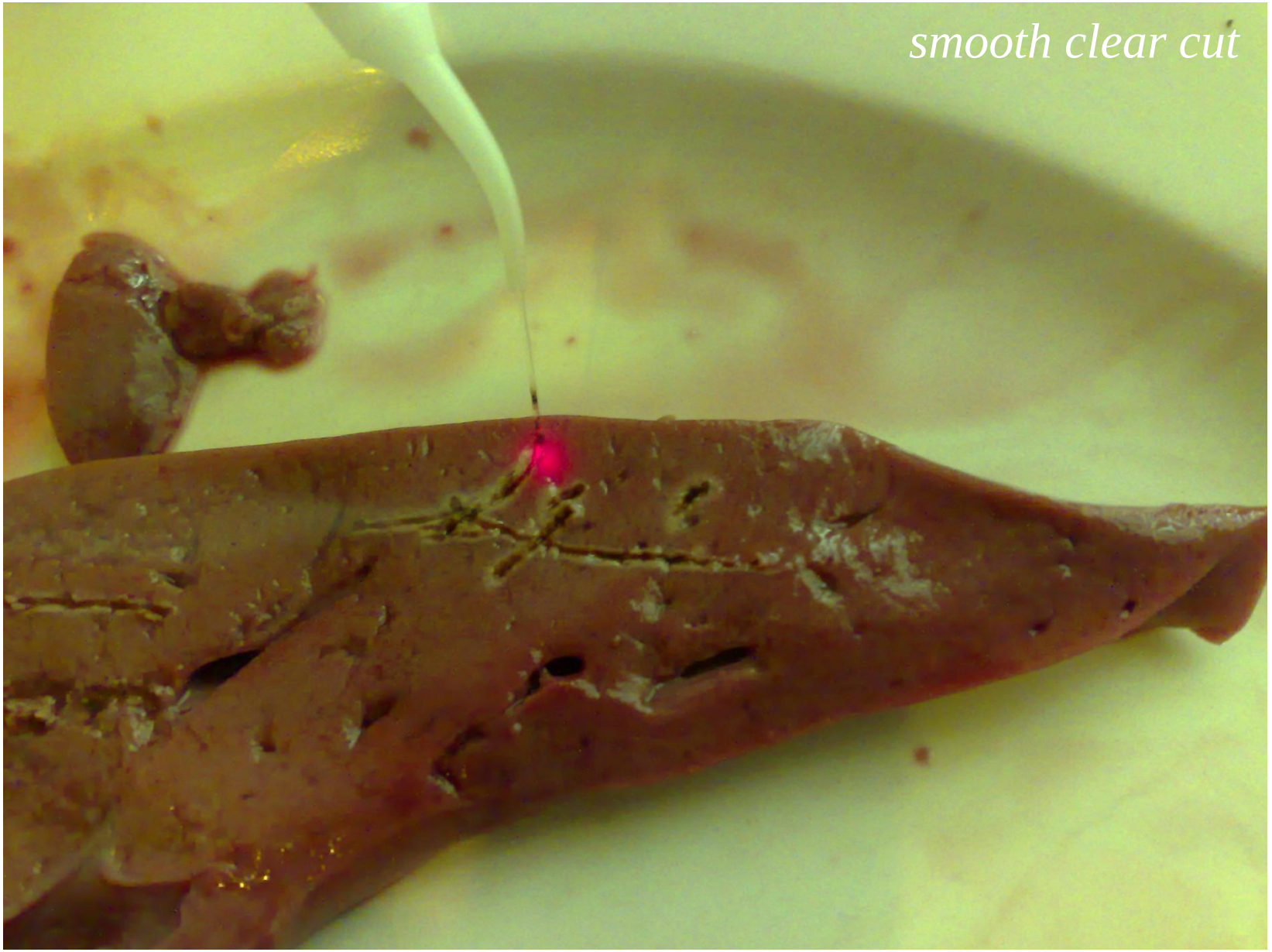
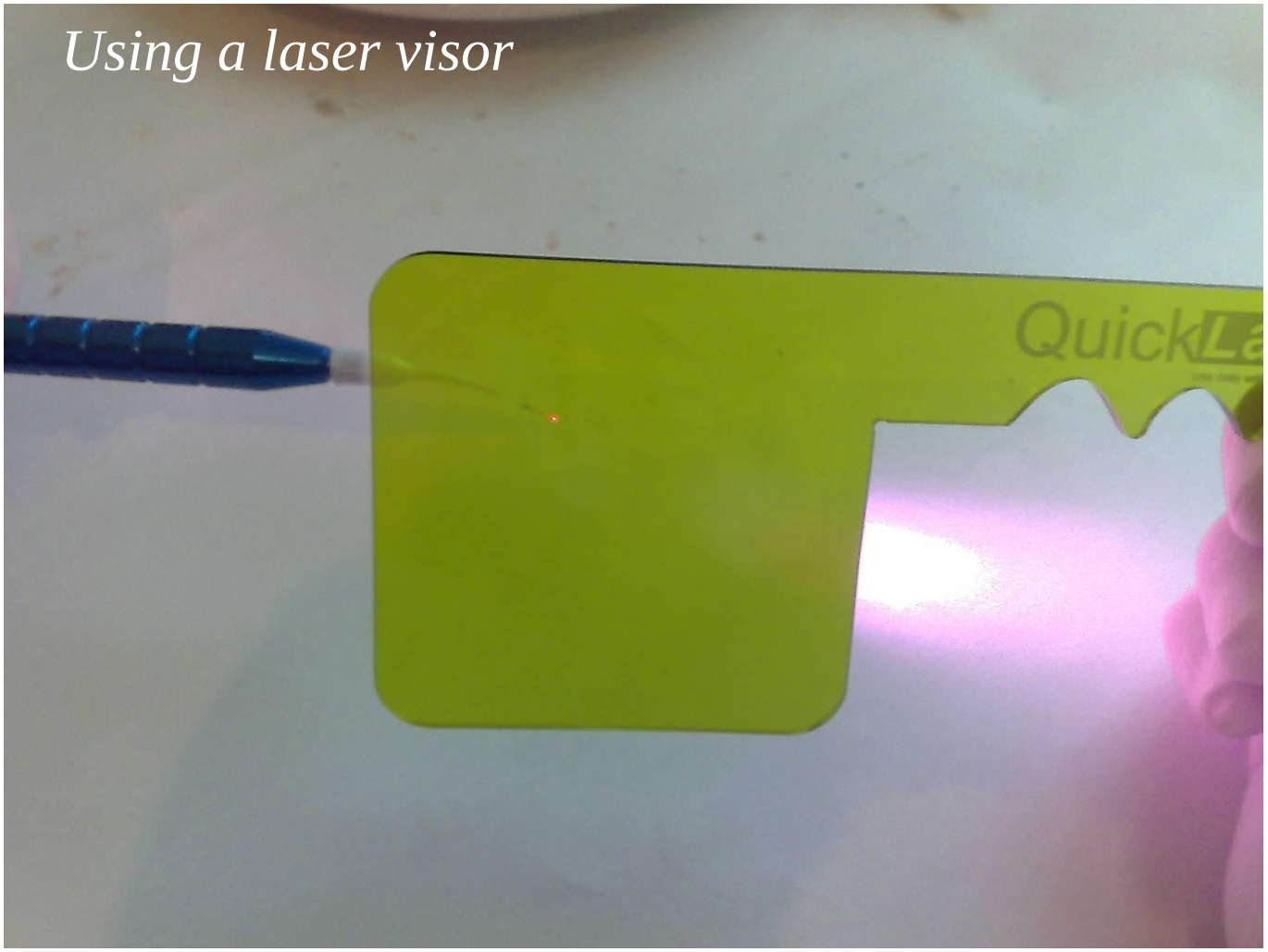

smooth cut (lambs liver as an example)


high power cut

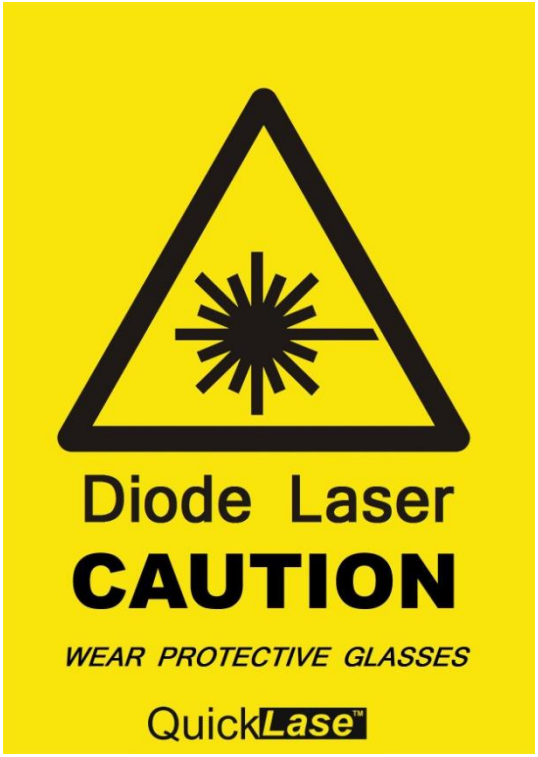

smooth clear cut


smooth clear cut


Using a laser visor

- Each treatment area should have a “Laser Caution” warning sign posted at the entrance to the treatment area.

- This signage serves to warn people not to enter the treatment area without proper safety eyewear when the laser is in use.



You can download more of these labels from our website,

www.quicklase.com/product/caution-sign/

The laser is not supplied in sterilised condition. It should be disinfected before use. The following disinfecting procedures are recommended for the following fixtures and attachments to the device:

The ***disposable fibre tips*** are supplied non-sterile by the manufacturer and are to be discarded in an infectious waste container after each use. There is no re-use or re-sterilisation procedure. The disposable fibre tips should be disinfected before use by immersing them into sterilisation solution and when initiating/carbonising, the fibre tip would be sterilised.
The tips are not autoclavable.

The ***handpiece*** should be disinfected before use by wiping it with a damp cloth with sterilisation solution or immersing it. It is autoclavable but not the white plastic fibre restrainer inside the screw top.

Suggested Solutions: Clean and disinfectant solution contains diluted o-phenylphenol and p-tertiary amylphenol. It is to be used in accordance with the manufacturer's specifications.
A. BIREX™
B. CIDEX®Steam

Diode lasers are part of your CQC surgery equipment, treated like your xray unit, you should have them inspected and calibrated annually.

Do I need to register laser equipment?

No. There is no legal requirement to register laser equipment in England although, before using it, employers should carry out a risk assessment.
This is a requirement under the general duties of the Management of the Health and Safety at Work Regulations 1999.

Health & Safety Executive:
http://www.hse.gov.uk/radiation/nonionising/faqs.htm

IMPORTANT Fibre Optic Handling

IMPORTANT: ***Before taking off the protective caps:***

- *DO NOT touch the end of the fibre & the laser connection end as it will get contaminated and the laser will not cut.*
- *Keep the plastic caps and always put the caps back on the fibre and laser connector if you need to disconnect the fibre.*
- *TAKE care when winding the fibre into the fibre caddy (fibre reel), do not force it in case of damage.*

IMPORTANT: ***Once connected, leave it connected:***

- *Plug in the fibre into the laser connector, push and rotate slightly until it clicks into position then screw the end tight by hand. (Failure to do this, will damage the fibre & laser)*
- *DO NOT disconnect the fibre to prevent dirt entering into the fibre connections, otherwise the laser will not cut. Always leave the fibre screwed in.*
- *DO NOT BEND the fibre optic more than 20 degrees, let it relax and do not force the fibre optic, otherwise it will not cut and will get damaged.*