FOR CLINICS, BEAUTY SALONS & DISTRIBUTORS

TECHNICAL TRAINING HANDBOOK

Operator training · safety · workflow · records



A practical guide to the two laser channels, touchscreen, matching tips, screening, operating boundaries and session records. Built only from supplied manufacturer material and conservative professional-use controls.

READ FIRST

Scope, authority & safe use

This handbook trains operators to recognise the system and follow an approved protocol. It does not create a treatment protocol.

01 Use only by trained professionals in an appropriate clinical or aesthetic setting.

02 The manufacturer’s instructions for use and local regulations override this handbook.

03 Device ranges are capability limits, not recommended starting settings.

04 Eye protection, client consent and a documented skin assessment are required.

05 If the exact model, tip, mode or protocol is unclear, stop and obtain written clarification.

> No model-specific certificate, treatment-specific starting settings or clinical protocol was supplied.

SYSTEM MAP

Two channels, one console

The system contains independent 1927 nm and 1550 nm laser channels. Confirm the selected channel before fitting a tip or changing a parameter.

01 1927 nm thulium channel: 30 W.

02 1550 nm erbium fiber channel: 30 W.

03 One treatment handle with wavelength-specific tip sets.

04 15.6-inch touch LED screen with separate channel screens.

> A shared housing does not make wavelengths, tips or parameter ranges interchangeable.



SYSTEM MAP · MANUFACTURER ARTWORK

HARDWARE

Parts, sockets & connections

Inspect the console, treatment handle, tip sets, cables, sockets and power lead before the first session of the day.

01 Confirm the emergency stop and main switch are accessible.

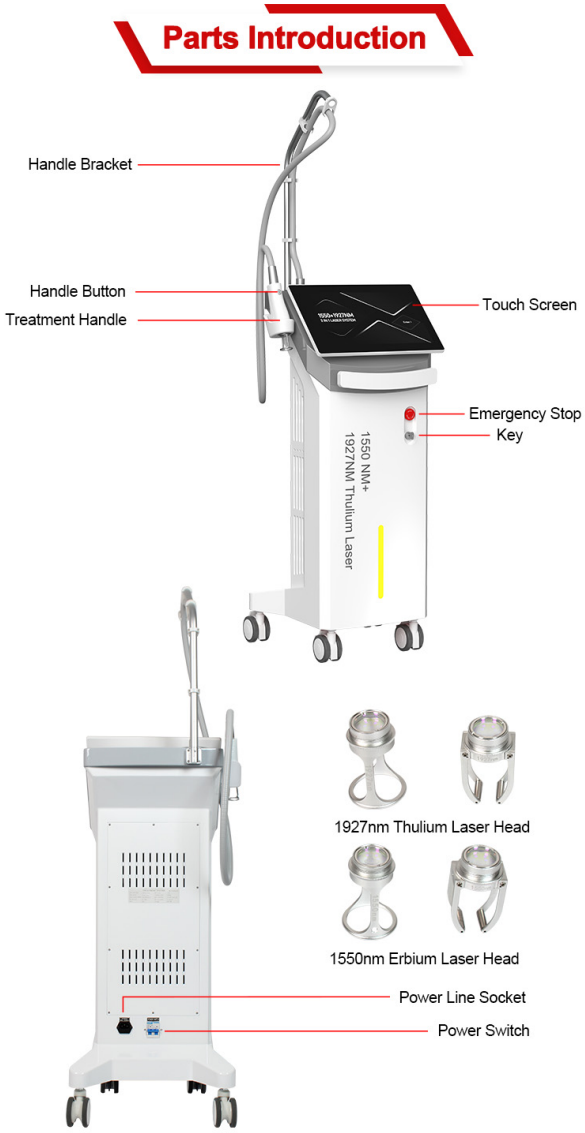
02 Check cables for cuts, crushing, loose connectors or strain.

03 Inspect the handle button and both wavelength-specific tips.

04 Keep the treatment area clear of cables and liquids.

05 Record defects and remove unsafe equipment from service.

> Never open the housing, defeat the emergency stop or bypass a safety interlock.



HARDWARE · MANUFACTURER ARTWORK

BEFORE TREATMENT

Room, client & skin screening

A repeatable session starts before the treatment handle is picked up. Document suitability and the treatment area.

01 Clean and disinfect the treatment area according to clinic policy.

02 Review recent procedures, active irritation, photosensitivity and previous reactions.

03 Confirm consent, privacy and photography consent separately.

04 Prepare wavelength-appropriate eye protection and a controlled laser-safe area.

05 Use the official contraindications and the responsible professional's assessment.

> The supplied material does not provide a complete contraindication list; do not improvise one.



BEFORE TREATMENT · MANUFACTURER ARTWORK

INTERFACE

Touchscreen navigation

The supplied screens show channel selection, power, pulse or scan controls, preview and start or stop. The delivered software version is the authority.

01 Confirm 1927 nm or 1550 nm before entering a parameter screen.

02 Verify units: W, mJ, ms, mm and Hz are not interchangeable.

03 Check pulse mode, scan graphic and preview where available.

04 Return to channel selection before changing tips.

05 Record the final displayed settings, not only intended settings.

> Interface wording and mode availability may vary by delivered software version.



INTERFACE · MANUFACTURER ARTWORK

CHANNEL 01

1927 nm: principle & published limits

The 1927 nm channel is identified as a thulium laser with fractional and super-pulse modes in the manufacturer parameter table.

01 Output power: 30 W.

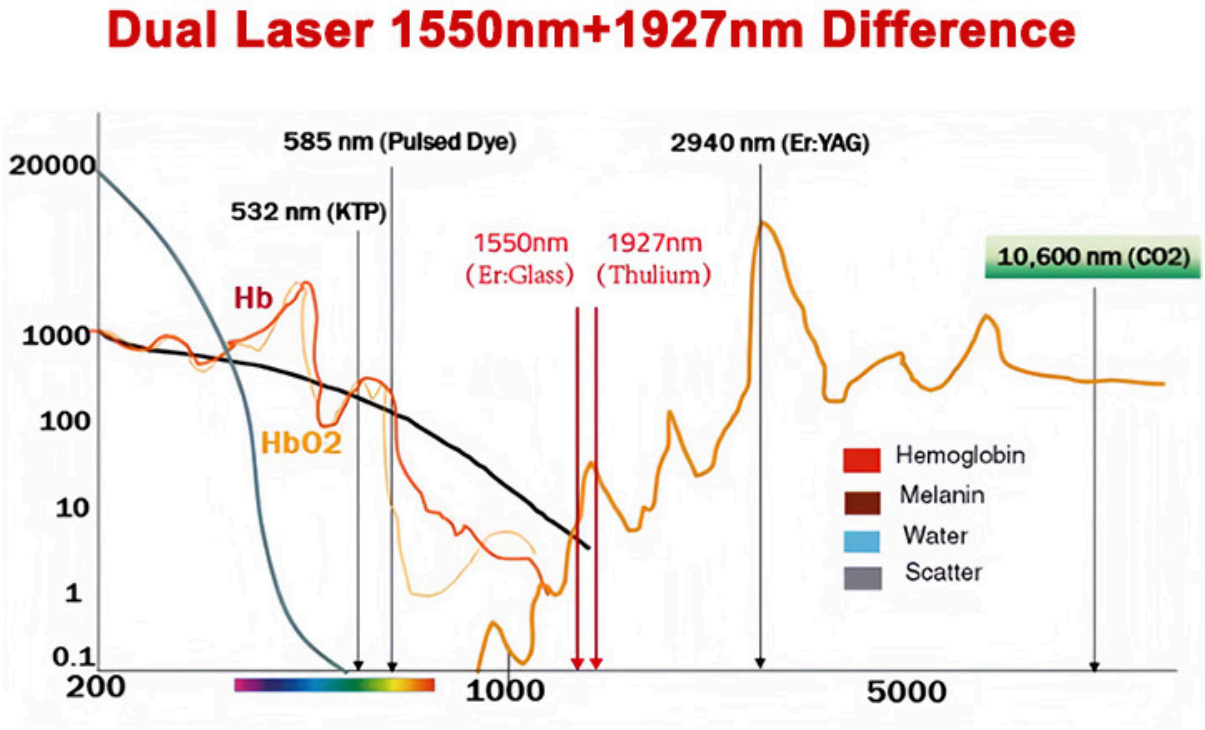
02 Pulse width: 0.1–20 ms.

03 Pulse energy: 1–300 mJ, adjustable.

04 Dot pitch: 0.1–2.0 mm, adjustable.

05 No treatment indication or starting setting is created by these ranges.

Manufacturer artwork describes superficial fractional interaction; this handbook does not convert it into a clinical protocol.



CHANNEL 01 · MANUFACTURER ARTWORK

1927 NM TIPS

Identify the 1927 nm tip set

Read the physical tip and its label before connection. Confirm that the interface is on the 1927 nm channel.

01 Inspect optical surfaces, housing and connector condition.

02 Confirm the tip is fully seated and secure.

03 Do not infer compatibility from similar shape or colour.

04 Clean and store only by the official method.

05 Record the tip identifier used in the session log.

If a tip is unmarked, damaged or uncertain, do not use it.



1927 NM TIPS · MANUFACTURER ARTWORK

1927 NM SCAN

Fractional & sliding controls

The manufacturer lists sequence or random scanning and square, circle, triangle or custom graphics.

01 Graphic size: 1.0 × 1.0 mm to 20 × 20 mm.

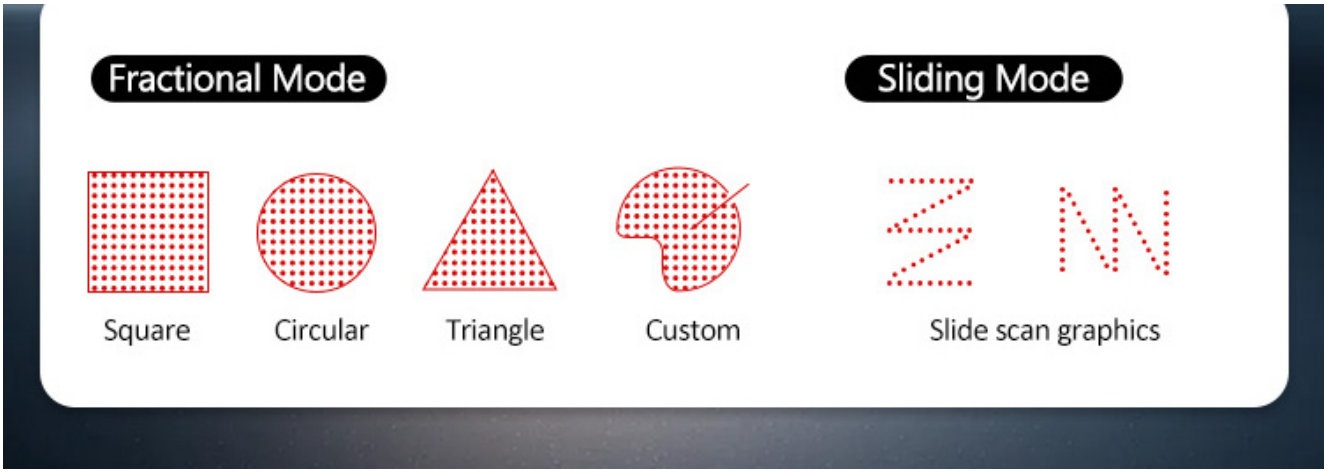
02 Dot pitch: 0.1–2.0 mm.

03 Spot size: ≥1 mm focus.

04 Use preview to confirm the selected graphic and boundaries.

05 Select every scan value only from the approved protocol.

A preview confirms geometry, not clinical suitability or safe energy.



1927 NM SCAN · MANUFACTURER ARTWORK

1927 NM WORKFLOW

1927 nm session sequence

Follow the clinic's approved 1927 nm protocol. The sequence below is a safety workflow, not a parameter prescription.

01 Confirm client, area, protocol, eye protection and channel.

02 Fit the correct 1927 nm tip and inspect the optical window.

03 Set mode, pulse width, pulse energy, dot pitch and graphic only as approved.

04 Use the required test-response step and inspect the preview.

05 Move according to the protocol while monitoring comfort and tissue response.

> Stop for unexpected pain, excessive redness, blistering, loss of control or any alarm.



1927 NM WORKFLOW · MANUFACTURER ARTWORK

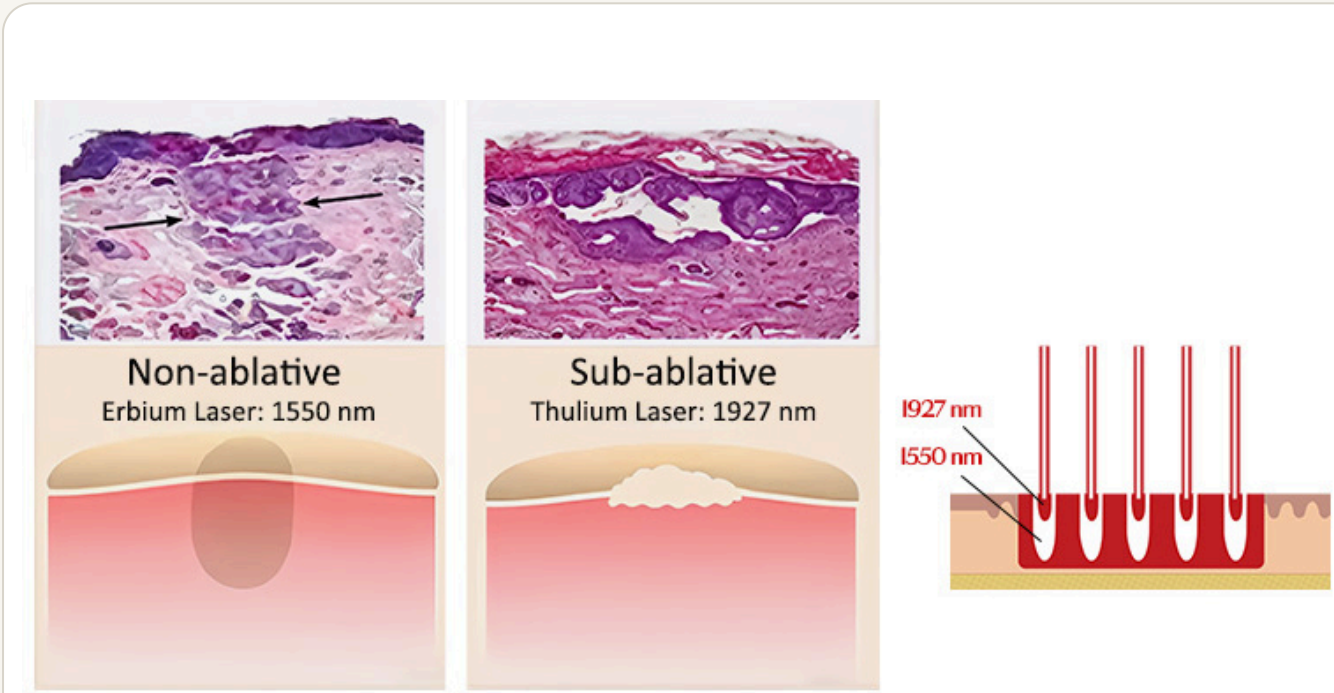
CHANNEL 02

1550 nm: principle & published limits

The 1550 nm channel is identified as an erbium fiber laser. Its channel table lists continuous-wave operation and a collimated treatment spot.

01	Output power: 30 W.
02	Operating mode: Continuous Wave (CW).
03	Frequency: 1–1000 Hz.
04	Collimated spot: 5 ± 0.5 mm.
05	Power tuning range: 0–100%.

Published optical ranges do not establish a treatment indication, course or result.



CHANNEL 02 · MANUFACTURER ARTWORK

1550 NM TIPS

Spot size & handpiece check

The channel table specifies a collimated spot of 5 ± 0.5 mm. The tip, channel and displayed parameters must agree.

01 Inspect the treatment window and surrounding housing.

02 Confirm the 1550 nm tip and interface mode.

03 Check beam path, eye protection and room control before output.

04 Keep cables supported and do not pull the handle by its lead.

05 Stop if contact, equipment condition or skin response is abnormal.

> The 5 ± 0.5 mm specification belongs to the 1550 nm channel, not the 1927 nm fractional scan.



1550 NM TIPS · MANUFACTURER ARTWORK

1550 NM WORKFLOW

1550 nm session sequence

Follow the approved 1550 nm protocol for preparation, test response, movement and aftercare.

01 Confirm treatment area, suitability and written protocol.

02 Fit the correct 1550 nm tip and verify the channel screen.

03 Set power and frequency only from the approved protocol.

04 Use the protocol's test-response step before broader treatment.

05 Maintain controlled movement and pause to inspect comfort and skin response.

> Never copy 1927 nm pulse-energy or dot-pitch settings into a 1550 nm session.



1550 NM WORKFLOW · MANUFACTURER ARTWORK

DUAL-CHANNEL CONTROL

Switch channels without confusion

Changing wavelength is a controlled reset, not a small adjustment. Reconfirm the complete setup after every channel change.

01 Stop output and return to channel selection.

02 Remove and identify the previous tip before fitting the next.

03 Confirm the wavelength on the physical tip and screen.

04 Recheck mode, units, approved settings and eye protection.

05 Record the new channel and final displayed values.

> Do not assume a saved setting or preview belongs to the newly selected channel.



DUAL-CHANNEL CONTROL · MANUFACTURER ARTWORK

ACCESSORY CONTROL

Tip compatibility & traceability

The supplied artwork shows separate 1927 nm and 1550 nm tip sets. Treat compatibility as a documented manufacturer decision.

01 Maintain an accessory list with tip identifiers and photographs.

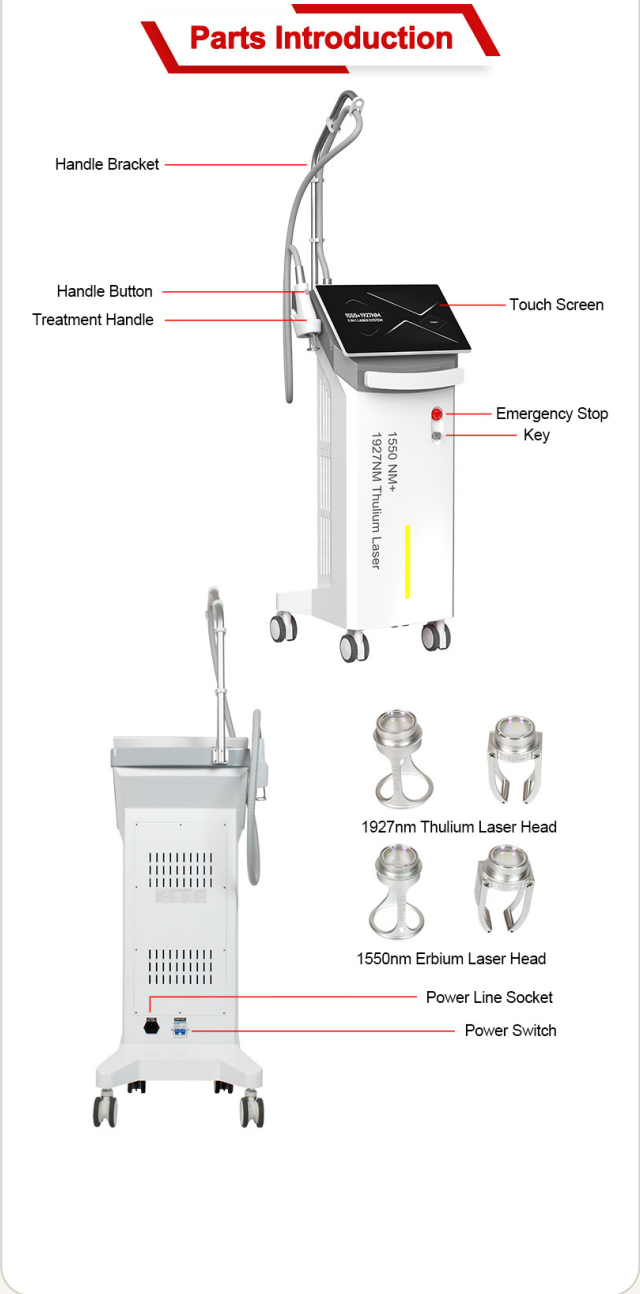
02 Do not modify, adapt or force a tip into the handle.

03 Quarantine damaged, unmarked or mismatched tips.

04 Record replacements and the person authorising return to service.

05 Obtain written confirmation for any unlisted accessory.

> Physical similarity is not evidence of wavelength compatibility.



ACCESSORY CONTROL · MANUFACTURER ARTWORK

PARAMETERS

Capability ranges, not a prescription

These are the ranges printed in the supplied parameter table. They define what the device can display, not where a treatment should begin.

01 1927 nm: 30 W · pulse 0.1–20 ms · 1–300 mJ · dot pitch 0.1–2.0 mm.

02 1550 nm: 30 W · CW · 1–1000 Hz · collimated spot 5 ± 0.5 mm.

03 1927 nm scan graphics: 1 × 1 mm to 20 × 20 mm.

04 Always record units, channel, tip and final displayed settings.

05 Use only starting settings and adjustment rules in the approved protocol.

> If no approved protocol is available, do not improvise one from this table.

LASER SAFETY

Eye protection & controlled area

Both channels are professional laser systems. Eye protection, room control and beam-path awareness are mandatory.

1927 NM

30 W · Fractional Pulse / Super Pulse · 0.1–20 ms · 1–300 mJ · adjustable dot pitch and scan graphics.

1550 NM

30 W · Continuous Wave · 1–1000 Hz · 5 ± 0.5 mm collimated spot · power tuning 0–100%.

SCAN CONTROL

Square, circle, triangle and custom graphics · graphic size 1 × 1 mm to 20 × 20 mm.

Channel table: 1550 nm is listed as CW; 1927 nm as Fractional Pulse / Super Pulse. A separate system comparison lists all three collectively. Confirm delivered channel availability before use.

This handbook does not assign an optical-density rating; obtain the manufacturer’s eyewear specification.

STOP RULES

Stop rules & incident response

Stop output immediately when a safety boundary is crossed. Client comfort and equipment condition take priority over completing a pass.

01 Unexpected pain, burning or a sharp change in sensation.

02 Excessive redness, blistering, swelling or pigment change.

03 Eye exposure, reflected-beam concern or damaged eyewear.

04 Wrong channel or tip, unclear settings, control fault or equipment alarm.

05 Stop, make the system safe, assess, escalate and document.

> Do not restart until the cause is understood and the responsible professional clears the equipment and client.

AFTER THE SESSION

Aftercare & documentation

Give only the aftercare approved for the selected channel and individual client. Avoid promises and generic instructions copied from another platform.

01 Inspect and record the immediate skin response.

02 Provide written aftercare from the clinic’s approved protocol.

03 Advise sun protection and avoid picking or scrubbing only as directed by that protocol.

04 Explain that reactions and results vary and provide a contact route for concerns.

05 Record tip, settings, area, response and advice.

> Any adverse reaction follows the clinic’s incident and referral policy.

CARE

Cleaning, inspection & maintenance

Routine care protects the client, the treatment handle and both tip sets. Follow official instructions for agents and service intervals.

01 Power down and isolate the system before cleaning.

02 Use only manufacturer-approved cleaning and disinfection methods.

03 Inspect optical windows, tips, cables, connectors, screen and emergency stop.

04 Keep air-cooling vents unobstructed and the console dry.

05 Schedule qualified service; never perform unauthorised electrical or laser repairs.

> Record cleaning, faults, service and replacement accessories in the equipment log.



CARE · MANUFACTURER ARTWORK

FAULT FINDING

When the system does not behave normally

A fault is a reason to stop, not to bypass. Troubleshooting is limited to checks authorised in the official instructions.

01 No output: confirm channel, tip, connection and displayed status; stop if unresolved.

02 Screen or control fault: do not restart repeatedly; record the message and call service.

03 Temperature or cooling alarm: stop treatment and follow the shutdown procedure.

04 Cable, plug, housing or tip damage: remove the unit from service.

05 After any safety trip, require qualified clearance before reuse.

> Never bypass interlocks, fuses, grounding, emergency stop or cooling protections.

CONSULTATION

Consent, expectations & records

A clear consultation protects the client and operator. Explain the technology, limits and variable response without promising an outcome.

01 Confirm identity, treatment area, indication and suitability.

02 Explain the selected wavelength and why it was chosen.

03 Discuss the process, possible discomfort and variable response.

04 Obtain informed consent and separate photography consent where required.

05 Record refusal, deferral or referral as clearly as a completed treatment.

> Do not use before-and-after images without verified provenance and appropriate consent.

SESSION RECORD

Treatment record template

Complete one record for every client and every channel used.

CLIENT / ID

DATE / OPERATOR

CHANNEL / WAVELENGTH

TIP ID / MODE

AREA TREATED

DISPLAYED SETTINGS

SCAN / SPOT / FREQUENCY

SKIN RESPONSE

AFTERCARE GIVEN

INCIDENT / REFERRAL

- ☐ Screened
- ☐ Consent signed
- ☐ Eye protection

CLIENT SIGNATURE

OPERATOR SIGNATURE

QUICK CARD

Before · during · after

Keep this page with the equipment log. It is a reminder, not a replacement for the protocol.

BEFORE

1. Suitability and consent documented
2. Correct channel and tip confirmed
3. Units and approved settings checked
4. Laser-safe room and eyewear ready
5. Preview and test response completed

DURING

1. Controlled movement and positioning
2. Comfort and skin response monitored
3. Channel and tip remain matched
4. Stop rules and emergency stop understood
5. Alarms treated as stop signals

AFTER

1. Skin inspected and recorded
2. Approved aftercare given
3. Channel, tip and settings logged
4. Incidents escalated
5. Equipment cleaned and checked

Published ranges describe device capability. They are not starting settings or a treatment prescription.

SOURCE & SIGN-OFF

What is known, what is still open

This handbook is deliberately explicit about the limits of the supplied material.

01
Source set: 33 images, two videos, one 21-page PDF and one DOCX supplied on 25 November 2026.

02
Commercial name: KOLIFU 1927+1550 DUAL LASER. Source designation: ThulErbe Dual Pro 68.

03
No model-specific certificate was supplied. The generic company pack does not cover this model.

04
No treatment-specific starting settings, course intervals or clinical protocol were supplied.

05
Official IFU, approved protocol, delivered software and local law remain the final authority.

TRAINING & SIGN-OFF

OPERATOR	TRAINER	DATE

> Trainer and operator sign-off confirms training received; it does not certify regulatory compliance.