NOTE! The laser operator and all staff in the laser treatment room should wear protective eyewear.

Multi-Spot Cartridge
15 – 18 – 22

Hair type	Wave-length (nm)	Skin type	Spot size (mm)	Pulse width (ms)	Fluence (J/cm²)	Skin type	Spot size (mm)	Pulse width (ms)	Fluence (J/cm²)	Skin type	Spot size (mm)	Pulse width (ms)	Fluence (J/cm²)	ICD (Pre/Delay/Post)
Fine (Upper lip)	755	I & II	15	1-2	10-14	III	15	3	12-15	IV	15	5	6-10	20/10/0
			18		8-12		18		10-12		18		5-8	
			22		6-10		22		6-8		22		4-6	
Medium (Arms, Legs)			15	3	18-22		15	5	10-13		15	5	8-12	
			18		14-18		18		9-12		18		6-10	
			22		12-16		22		8-10		22		5-8	
Coarse (Beard, Axillary, Bikini line)			15	3	12-16		15	5	6-9		15	10	8-10	
			18		10-16		18		5-8		18		7-9	
			22		6-12		22		4-7		22		6-8	
Fine (Upper lip)	1064	III	15	3	20-26	IV	15	5	12-18	V & VI	15	5-12	8-14	20/10/0
			18		18-22		18		8-12		18		6-12	
			22		14-18		22		6-8		22		5-10	
Medium (Arms, Legs)			15	5	18-22		15	5	16-24		15	12-20	8-12	
			18		16-20		18		14-20		18		8-10	
			22		12-16		22		7-16		22		4-10	
Coarse (Beard, Axillary, Bikini line)			15	5	14-20		15	10-20	14-20		15	20	6-10	
			18		12-18		18		13-18		18		4-6	
			22		10-16		22		10-16		22		3~	

❖ **Hair Removal**

- **Endpoint: Perifollicular edema, mild erythema**
- **Procedure:** Shave before the procedure to avoid energy waste and excessive skin reactions like burns. Perform a test spot for an appropriate skin response. In case of excessive skin reaction, decrease fluence by 2 J/cm², then adjust pulse duration.

> ▪ **Wavelength: 755 nm** – Lighter skin / Finer hair / Light hair color
> (The use of 755 nm to skin type IV requires a test spot before treatment.)
> **1064 nm** – Darker skin / Thicker hair / Dark hair color
> ▪ **Pulse width: Short** – Finer hair / Lighter skin
> **Long** – Thicker hair / Darker skin
> ▪ **Fluence: High** – Lighter hair color / Lower hair density / Smaller spot size
> **Low** – Darker hair color / Higher hair density / Bigger spot size

- **Post care:** Apply cold compress or Ice pack cooling, and hydrocortisone (~1%) to avoid any possible side effects.
- **Treatment interval:** 4-6 weeks for the face, and 6-8 weeks for all other areas

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NOTE! The laser operator and all staff in the laser treatment room should wear protective eyewear.

Multi-Spot Cartridge

15 – 18 – 22

Expert's Recommendation
Protocols from experts that are proven to be effective.

Indication	Step	Wavelength (nm)	Spot size (mm)	Pulse width (ms)	Fluence (J/cm²)	Pulse rate (Hz)	ICD (Pre/Delay/Post)	Pass	Interval (week)	Session
Dual Hair Removal	1	**1064**	Lower the fluence by 2-3 steps than the usual parameter.				20/10/0	1	4-6	3-5
	2	**755**	Lower the fluence by 2-3 steps than the usual parameter.				20/10/0	1		

❖ Dual Hair Removal

Effectively target various types of hair (thickness, depth, and color) using both wavelengths in one procedure.

- **Endpoint: Perifollicular edema, mild erythema**
- **Procedure:** Lower the fluence by 2-3 J/cm² than the usual parameter when performing multiple passes. Perform both steps 1 and 2 in one procedure.

Indication	Wavelength (nm)	Spot size (mm)	Pulse width (ms)	Fluence (J/cm²)	Pulse rate (Hz)	ICD (Pre/Delay/Post)	Pass	Interval (week)	Session
Alex Peel (Fine hair)	**755**	18	3	6~	2~	10/10/5	1	4-6	3-5

❖ Alex Peel

Effectively target fine soft hair all over the face, brighten the skin tone, and prevent inflammation. This could be combined with Ice Nevus Removal, Alex Toning, or InnerLift Mild treatment.

- **Endpoint: Mild erythema**

Skin Rejuvenation

NOTE! The laser operator and all staff in the laser treatment room should wear protective eyewear.

Multi-Spot Cartridge
15 – 18 – 22

Indication	Wavelength (nm)	Spot size (mm)	Pulse width (ms)	Fluence (J/cm²)	Pulse rate (Hz)	ICD (Pre/Delay/Post)	Pass	Interval (week)	Session
InnerLift Mild	**1064**	15	0.3	2.2~	5-10	OFF	5-8	1-2	5-10
InnerLift Moderate	**1064**	15	20	14~	2~	10/10/0	3-5	1-2	5~
InnerLift Advanced	**1064**	15	50-60	24-28	2	20/10/0	2-3	2-3	3~

❖ InnerLift Mild

Skin rejuvenation technique that improves skin texture and fine winkles.
 - **Endpoint: Mild warming sensation, mild erythema**
 - **Procedure:** Control the number of passes by observing the skin reaction.
 - **Post care:** Apply cold compress, skin soothing and moisturizing.

❖ InnerLift Moderate

A laser facelift that does not require anesthesia. It improves the appearance of fine wrinkles and facial flushing by enhancing skin rejuvenation through dermal collagen remodeling. Improved skin elasticity is visible on an average of one month after the procedure.
 - **Endpoint: Moderate warming sensation, mild erythema**
 - **Procedure:** Consider the general direction of the face lift by targeting the center of the face toward the outer portions. ICD mode could be skipped in this procedure.
 - **Post care:** Apply cold compress, skin soothing and moisturizing.
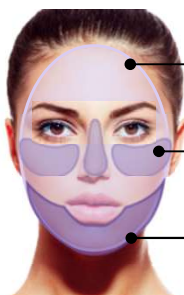
❖ InnerLift Advanced

Traditional skin rejuvenation technique that uses long pulse width and high fluence. It effectively induces collagen remodeling, tightens the pores, and improves the appearance of wrinkles.
 - **Endpoint: Strong warming sensation, erythema, mild edema**
 - **Procedure:** The laser irradiates from the center of the face toward the outer portions. Turn on the **Skin Temp mode** to observe skin reaction and to reach ~47°C. Apply cooling after the treatment.
 - **Post care:** Apply cold compress, skin soothing and moisturizing.

➤ Example of Combination Treatment:

1) INNERLIFT COMBINATION

: A combination treatment that effectively improves skin tone, texture, laxity, pores, and wrinkles.

STEP ① **InnerLift Mild**
2-3 passes to the entire face
STEP ② **InnerLift Moderate**
2-3 passes to the perinasal area
STEP ③ **InnerLift Advanced**
2-3 passes to the jawline

2) Melasma Treatment & InnerLift Mild

: Improve dermal condition to prevent recurrence of melasma.

3) Facial Flushing Treatment & InnerLift Mild

: Normalize dilated blood vessels and induce dermal remodeling.

4) Blackhead Treatment & InnerLift Moderate

: Tighten pores after extrusion and rejuvenate the skin.

NOTE! The laser operator and all staff in the laser treatment room should wear protective eyewear.

Multi-Spot Cartridge
15 – 18 – 22

Expert's Recommendation
Protocols from experts that are proven to be effective.

Indication	Step	Wavelength (nm)	Spot size (mm)	Pulse width (ms)	Fluence (J/cm²)	Pulse rate (Hz)	ICD (Pre/Delay/Post)	Pass	Interval (week)	Session
C-Toning Rejuvenation	1	**755**	15	5 [C-Toning]	5.5	5	OFF	1-2	1-2	5
	2	**1064**	15	5 [C-Toning]	6-8	5-10	OFF	3		

❖ C-Toning Rejuvenation

Target pigments in the basal layer using a 15 mm spot size and C-Toning mode. This effectively improves melanosomes that react from 0.1-5 ms and gradually heats up the dermis to induce dermal remodeling.

- **Endpoint: Mild erythema**
- **Procedure:** Control the number of passes and overlapping by observing the skin reaction.

Operation & Maintenance

GUI

Wavelength
Alexandrite 755 nm or Nd:YAG 1064 nm is selectable. Press 2 seconds to change.

Setup
Check total shot count, parameter history, sound volume, etc.

Memory
Press whether to enter the save mode to save the parameters or load the saved parameters.

Shot Count
The number of laser shots emitted.

Pulse Width
Time duration of one laser shot (0.1-300 ms).

C-Toning Mode
A macropulse consisting of 0.1 ms sub-pulses (3/5/10 ms).

Operating Switch
Laser radiation control. Select either Finger or Foot switch.

ICD
[Intelligent Cooling Device]
Select whether to use the cooling function (ON/OFF). When the function is ON adjust (Pre/Delay/Post) time.

Parameter Capture
Save the parameter displayed on the screen.

Spot Size
The diameter of the laser beam (mm).

Fluence
Energy per unit area (J/cm²).

Pulse Rate
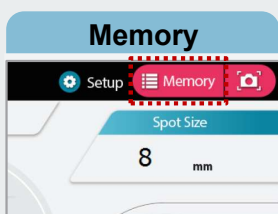The number of the laser shots per second (Hz).

Aiming Beam
When in Ready mode, adjust the brightness of the guide beam.
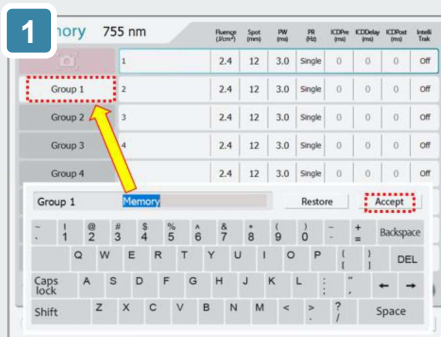
Standby / Ready
When changed to Ready, laser emission is possible.
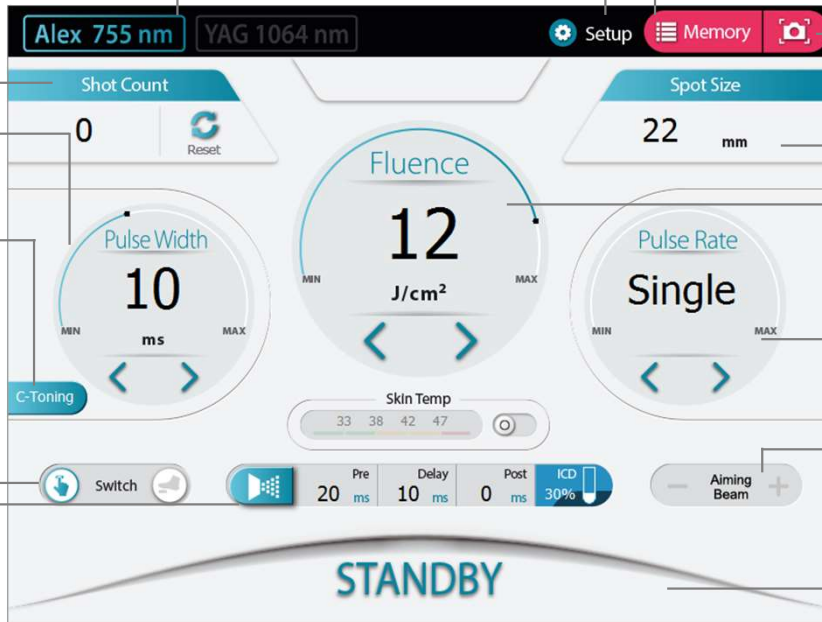
Memory & Capture

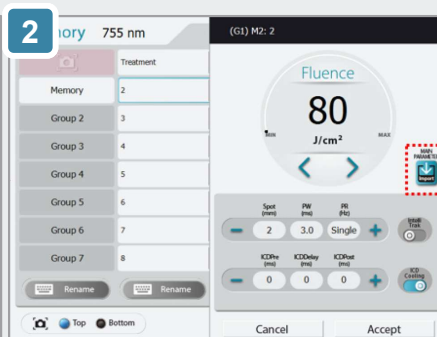### Memory

- Press 'Memory' to save frequently used parameter.

- Press 'Rename' button to enter group name and treatment name using a pop-up keyboard.
- Press 'Accept' to save.

- Press 'Modify' to input parameters then press 'Accept'.
- In case saving current parameter, press 'Import' icon to call the protocol then press 'Accept' to save.
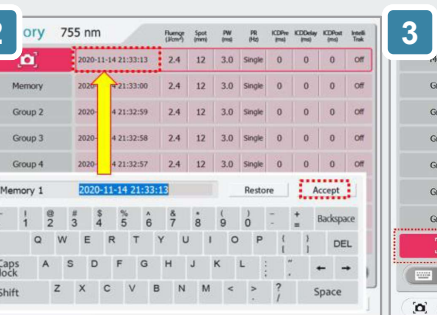

- Select the saved memory.
- Then treatment name appears on the top of the GUI, and parameters are automatically set.
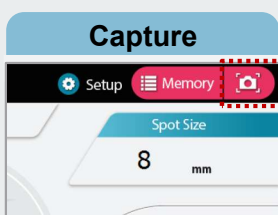
Capture

- Press 'Capture' to save parameter displayed on GUI.
- Press 'Memory' to view captured history.

- A total of 8 parameters are savable in Capture. When the list is filled, the oldest parameter is deleted and the newest one is saved.

- Press 'Rename' located on the bottom to enter a treatment name using a pop-up keyboard.
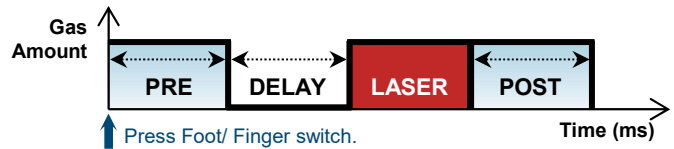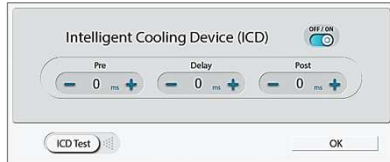- Press 'Accept' to save.

- The capture group can be moved to the top or bottom of the group list, by clicking the buttons located at the bottom.

Operation & Maintenance

I C D

- Activate ICD mode by pressing 'Spray ' button.

Intelligent Cooling Device (ICD)   OFF / ON
Pre   Delay   Post
− 0 ms +   − 0 ms +   − 0 ms +
ICD Test   OK

Gas Amount

↑ Press Foot/ Finger switch.

PRE | DELAY | **LASER** | POST

Time (ms)

- **PRE**   ICD gas emitting before laser irradiation
- **DELAY**   Time interval between pre and post emitting
- **POST**   ICD gas emitting after laser irradiation

How to Replace

- Press the gas amount button to check the percentage of remained ICD gas.
- Whenever a new ICD canister is replaced, set the initial value of ICD amount to 100%.

1 Caution (Check 00 00 00 08)
CHK 04 : Replace ICD canister.

- When "Replace" message pops up, open the cap and remove the old ICD canister.

2 Caution (Check 00 00 00 04)
CHK 03 : Insert ICD canister.
... (Multiple system errors detected)

- When "Insert" message pops up, insert a new canister.

[Note!] ICD mode should be ON.

3
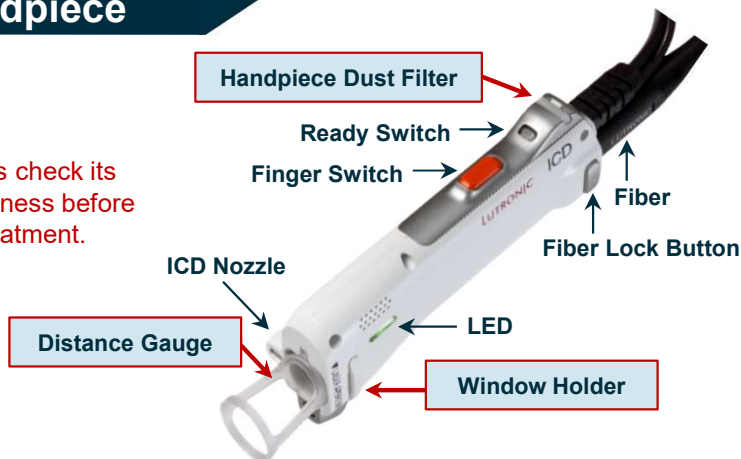

- Press the cap by turning right to fix the canister.

ICD Test

[Note!] Once replaced, press 'ICD test' button 3-5 times to remove probable gas bubbles stuck into the fiber.

Handpiece

* ▢ :
Always check its cleanliness before the treatment.

- Handpiece Dust Filter
- Ready Switch
- Finger Switch
- Fiber
- Fiber Lock Button
- ICD Nozzle
- LED
- Distance Gauge
- Window Holder

- To connect the multi-spot cartridge, mount the Handpiece securely into the holder.
- Keep the storage box closed to protect accessories from dust.

[Note!] Do not bend or wind the optical fiber to a radius of less than 30 cm.

How to Connect

| **Multi-Spot Cartridge**	**Distance Gauge**	**Replaceable Window**
15 mm – 18 mm – 22 mm	O Tip Small-O Tip * I Tip	
Multi-spot cartridges	Distance gauge	Replaceable window
• Attach the multi-spot cartridge to the optical fiber. • Insert the cartridge with fiber into the handpiece.	• Select appropriate distance gauge. • Attach it in front of the handpiece by matching the groove or port. * There is no groove on 'I Tip.'	• Insert the window into the slot above Laser Aperture. • Window is replaceable from the storage box.

Maintenance

Handpiece Window
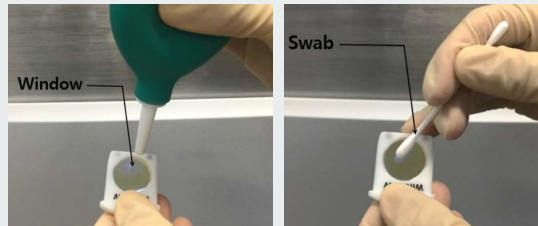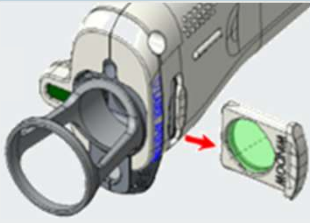
- Pull out the window from the handpiece and check its cleanliness.
- If there is any debris, remove it using an air dust blower or glasses cloth.
- For sticky dust, use a cotton swab soaked with ethanol (70% or higher).

  [Note!] The window must always be inserted at a correct angle to avoid window damage or break.

- In case of a damaged window, gently push it from the holder to remove and replace it with a new window.

Distance Gauge

All Tips

- Keep the distance gauge in place or separate from the handpiece.
- Clean the surface with a cotton swab soaked in ethanol (70% or higher) before and after treatment (especially after hair removal).

Handpiece Dust Filter

- Pull out the filter from the top of the handpiece.
- Gently rub off the dust with a towel first, then spray water.
- Dry the filter in a shady place, then insert it into the handpiece.

  [Note!] Check the filter once a month to see if it is dirty.

Device Dust Filter

- Remove the dust filter from the frontal side of the body by grasping both ends and pulling it downwards.
- Gently wipe the dust from the surface with a towel first, then remove the remaining dust by spraying cold water onto the filter.
- Let the cleaned dust filter dry completely in a shady, well-ventilated place and then couple it back to the device.

[Note!] Check the device filter once in 3 months.

▲ After 3 months   ▲ After 6 months

Patient Post-Treatment Care

- Please do not use cosmetics with retinol or AHA for 48 hours.

- Please do not use hydrocortisone for more than 2 days without a doctor's prescription.

- Please do not use an exfoliator or scrub to the treated area for a week after treatment.

- Please do not take the sauna for a week after treatment.

- Please do not pluck hair after hair removal treatment to avoid folliculitis caused due to inflammation.

- Apply a UVA/B sunblock of more than SPF30, PA++ for at least 30 days after treatment.

- Please inform the doctor about the medications you are currently taking.

- Apply a cooling pack to the excessive erythema affected by the treatment for more than 20 minutes.

For more information, please contact your physician at the address below.