



*High Intensity Focused **Ultra**sound Facial **Skin** Lifting*

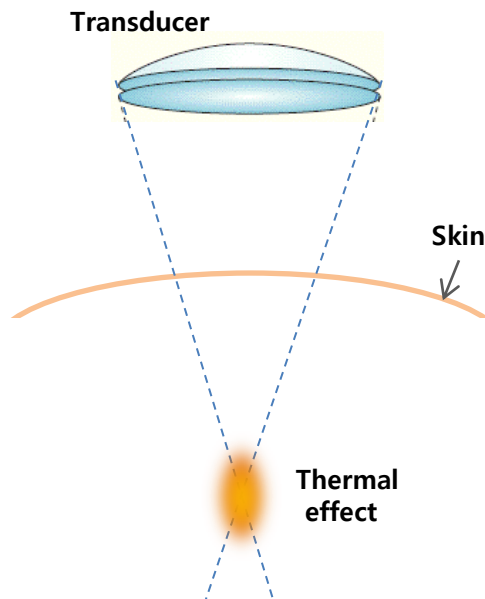




HIFU Mechanism

HIFU [High Intensity Focused Ultra-sound]

-
- Non-invasive treatment with thermal energy that focused ultrasound from transducer
-



▪ Features of HIFU

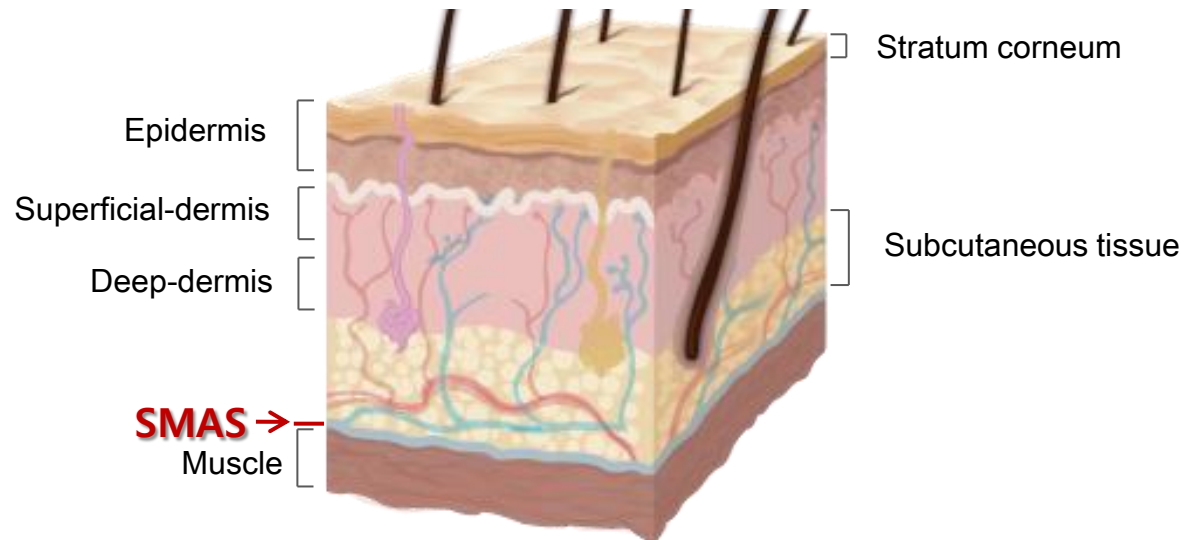
- 1** Generate enough energy to coagulative necrosis
- 2** No damaged except treat area
- 3** No harm at all when passing through human tissue
- 4** No infection and no bleeding for non-invasive treatment
- 5** Less side effect and safe treatment



What is SMAS?

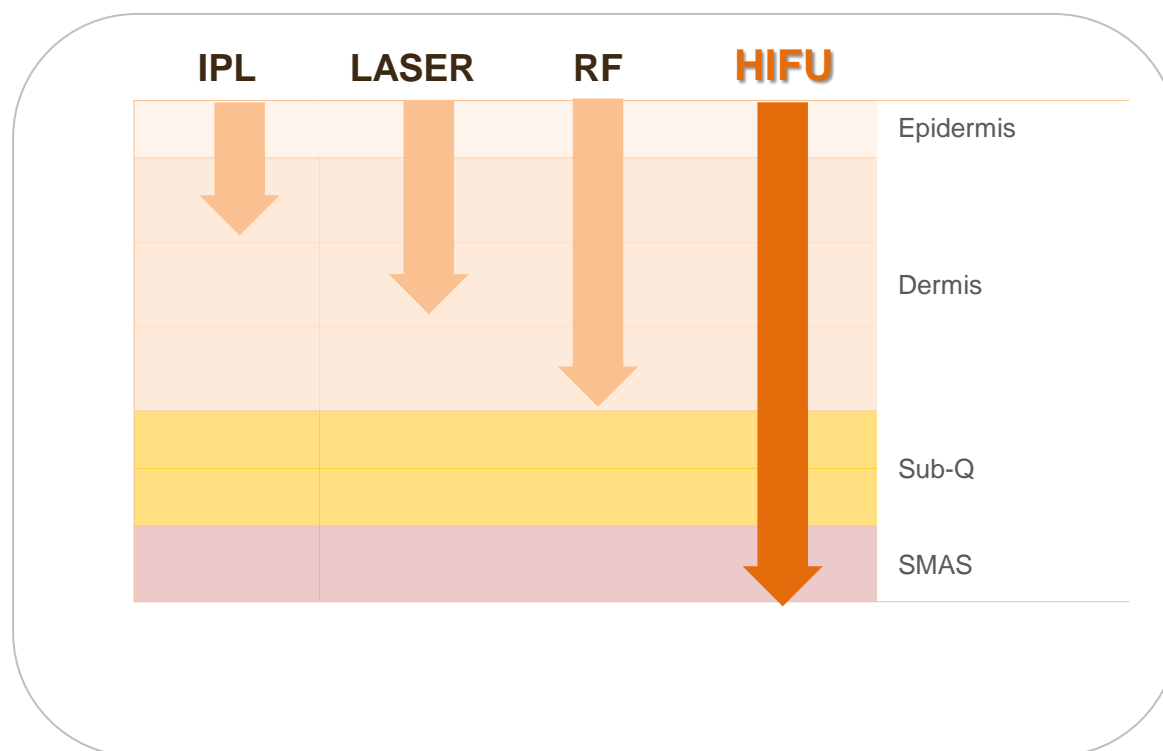
SMAS [superficial Muscular Aponeurotic System]

- The area of between just below the dermis and the top portion of the muscle layer
- This muscle layer could makes the reason of wrinkle and loosen skin
- The target area of Botox or face lifting treatment that depth is 4.5mm in the skin



Energy depth

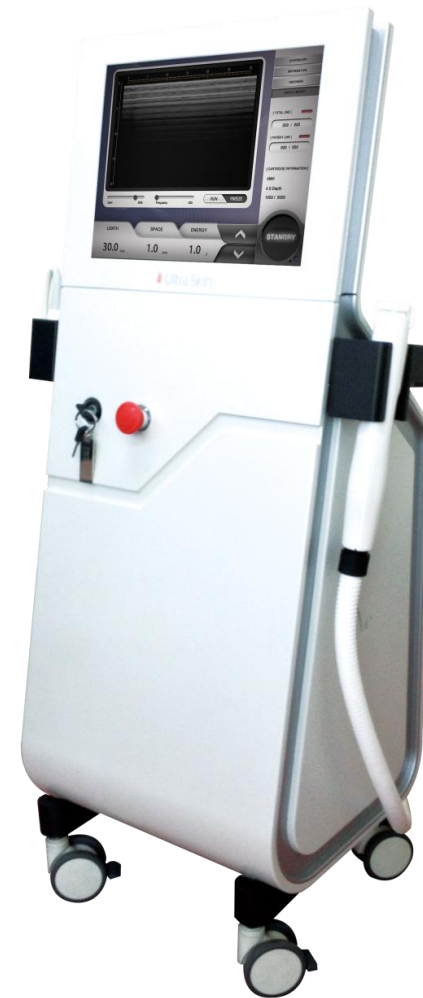
The target area of HIFU treatment is more deeper than other lasers





Specifications

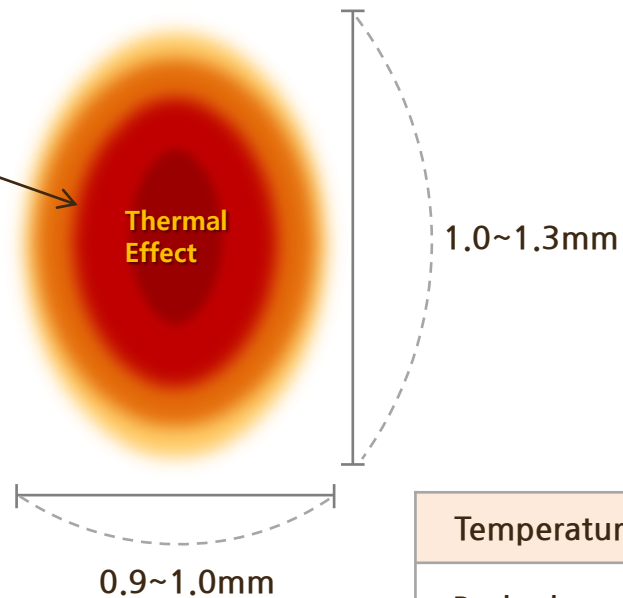
Irradiation Type	High Intensity Focused Ultrasound
Frequency	4MHz / 7MHz
Maximum Energy	3J/cm ²
Depth	4MHz ; 4.5mm / 7MHz ; 3.0mm
Length	~ 30mm (1mm step)
Image Frequency	5 ~ 10MHz
Image Depth	20mm
Image Resolution	128Channel, Linear Type, B-mode





Coagulation Point

Coagulation Point
by HIFU Focusing



The effect of Coagulation Point

- Wound healing
- Elastic fiber, collagen regeneration

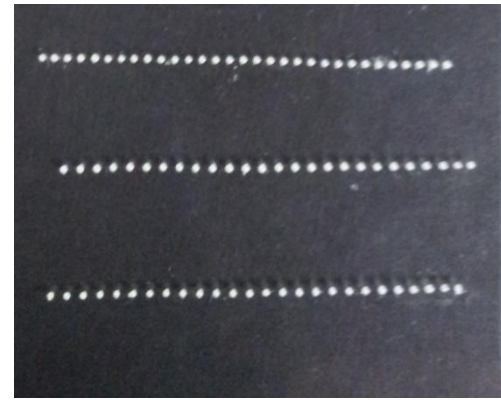
Temperature	40 ~ 60°C	60 ~ 70°C	70 ~ 100°C
Body change	Warming	Coagulation	Denaturation and Vaporization
Visual change	-	Bleaching	White / Gray

Ultra Skin Test

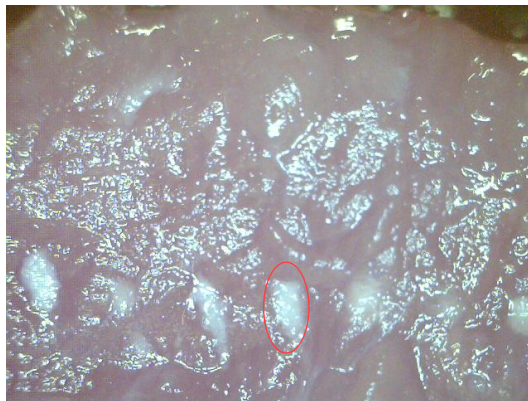
7MHz



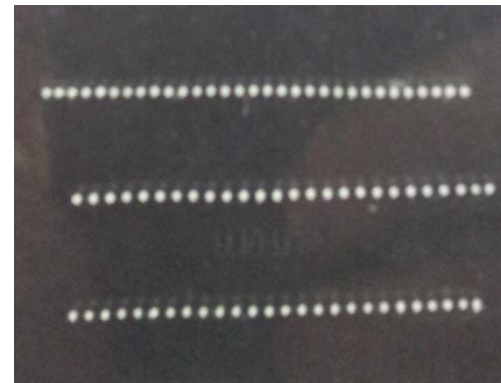
7MHz



4MHz



4MHz



Explanation

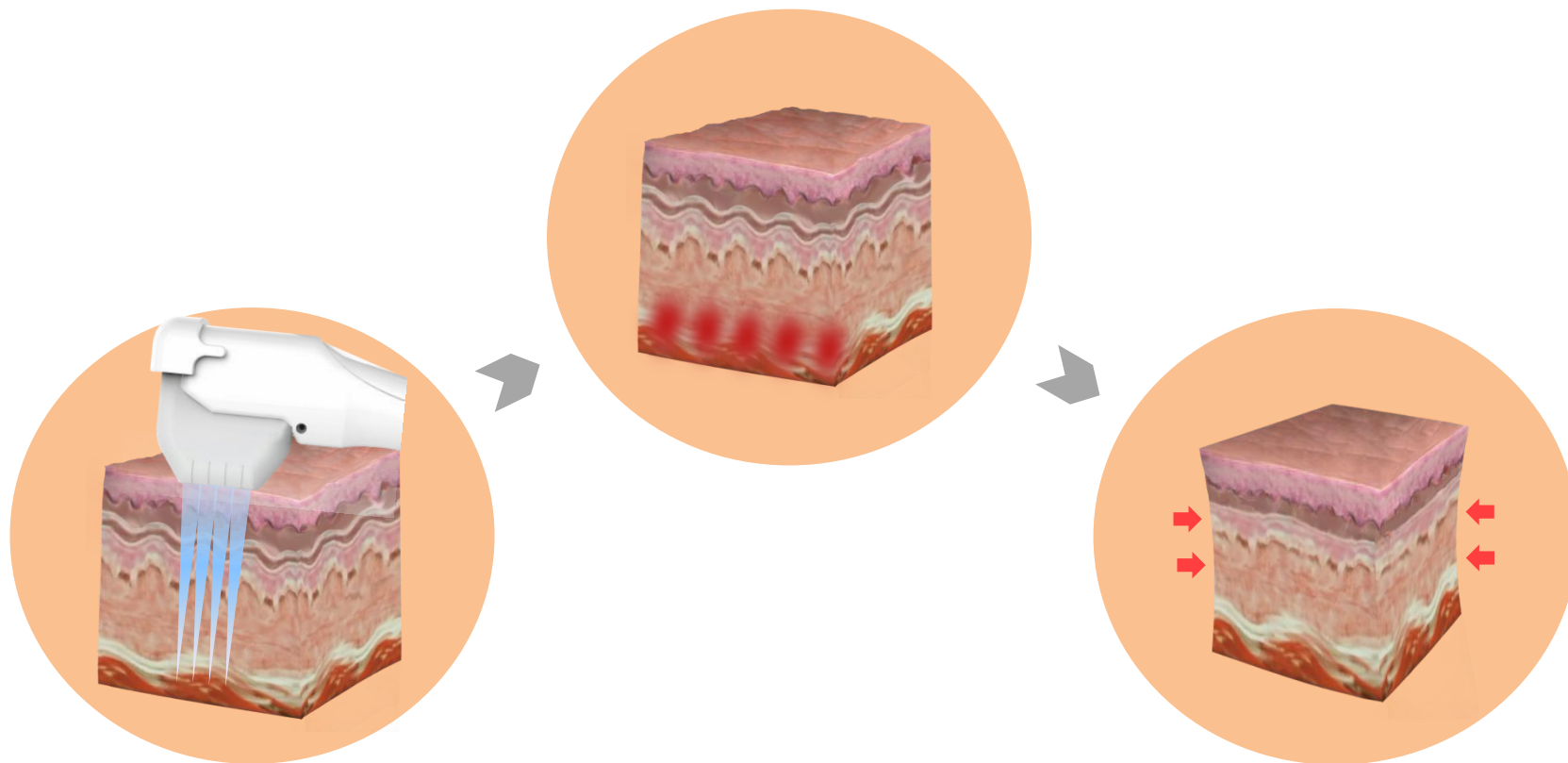
Find your
Secret Face Line

What is Ultra Skin?

Ultra Skin tightens skin effectively by penetrating into SMAS layer, which is located in the deep skin. This is the new lifting therapy and good for tightening ,wrinkle and whitening.



The treatment rationale



Treat the HIFU with the fractional type

Coagulation zone into 4.5mm Depth (SMAS layer)

Make the higher temperature than 65°C
Tighten the skin tissue:
Immediate tightening effect

The production promoting Of Collagen & elastin.
The effect of lifting and rejuvenation.



Features

Solve the problems of **Wrinkles and Tightening** at the same time..

Advantages of Ultra Skin

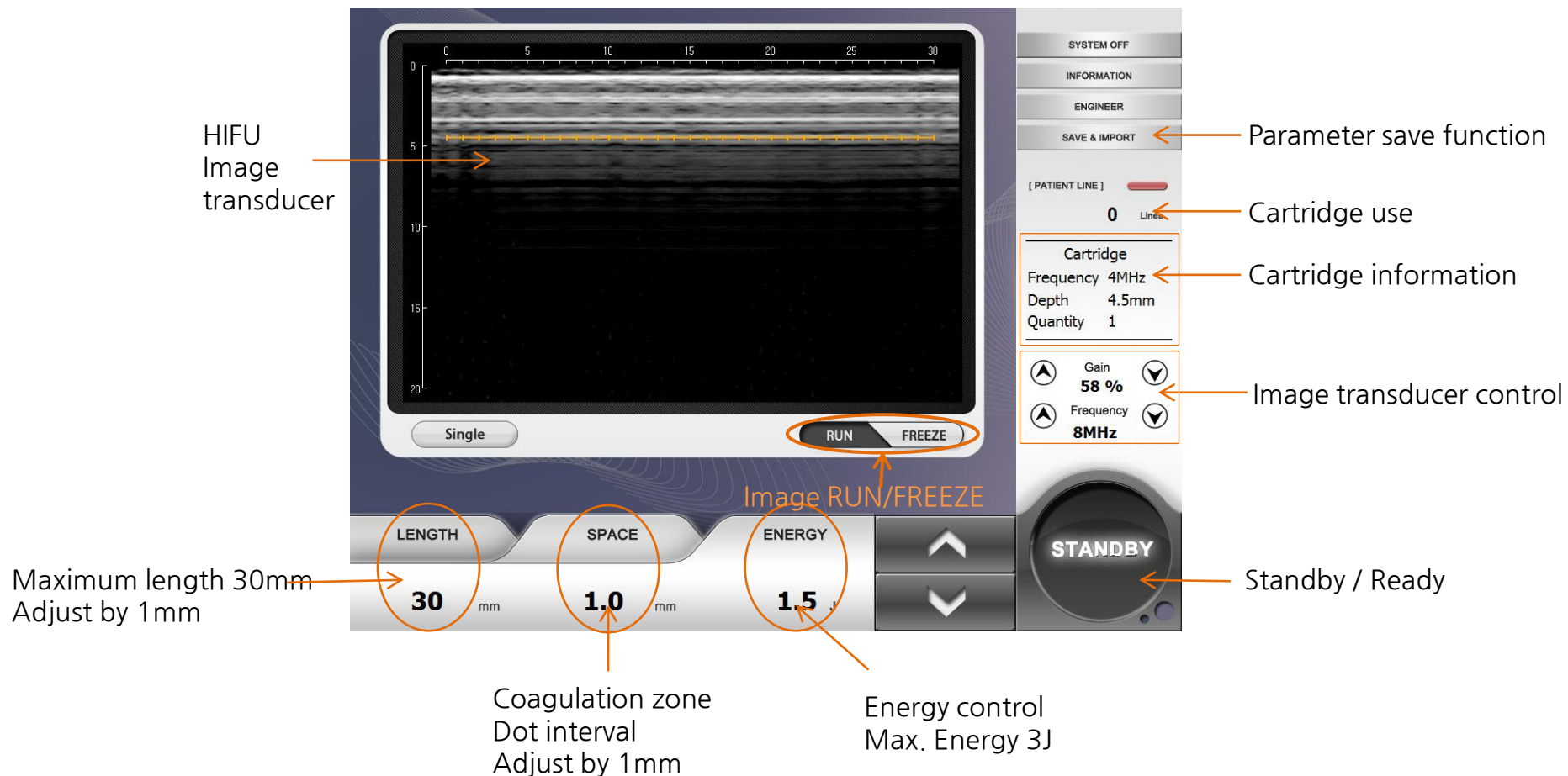
- 1 The visual lifting effect without surgery
- 2 The possibility of treatment in SMAS layer
- 3 Safe treatment
- 4 No down time
- 5 Immediate lifting effect and long term effects

Who need Ultra Skin treatment?

We recommended to whom..

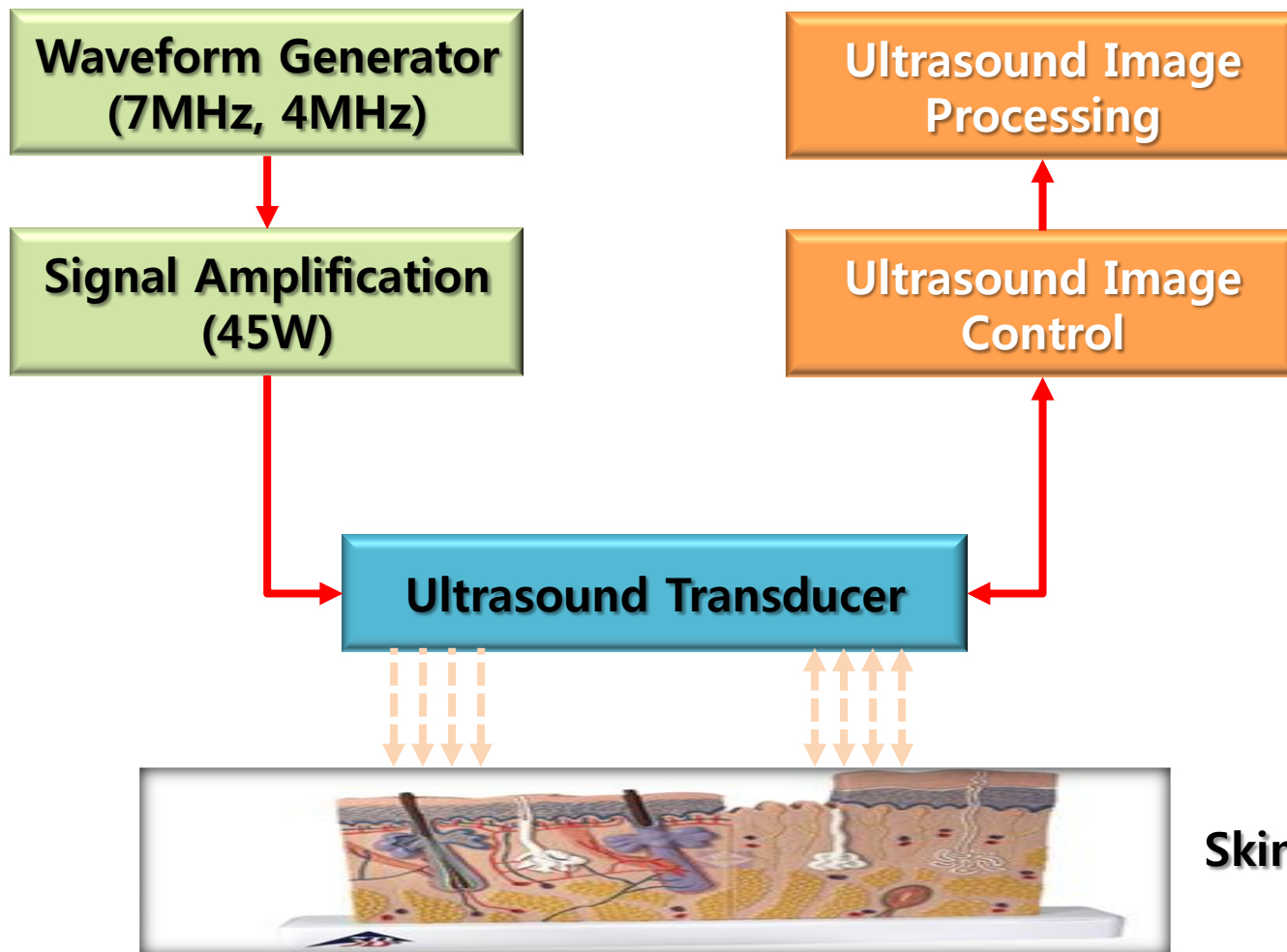
- ✓ Who feel getting old herself
- ✓ Complex about double chins
- ✓ Lifting for V line
- ✓ Wrinkles on eyes, mouth, nasolabial and forehead
- ✓ Who is looking for non-surgery treatment
- ✓ Who is got a drooped eyelid after surgery
- ✓ Complex about dark circle and fat under eyes

User Interface





Schematic Diagram

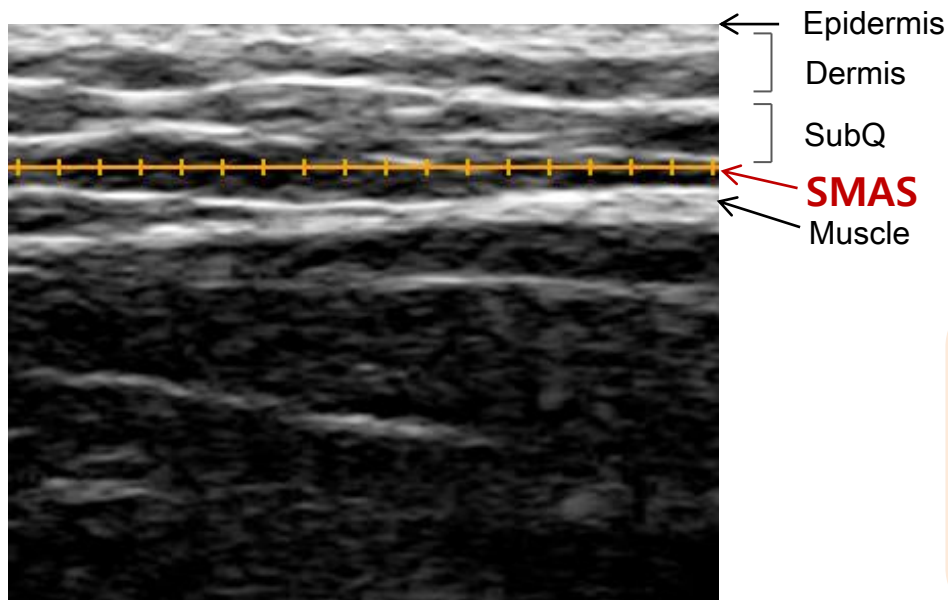


Skin

Imaging probe

Measure the skin texture with HIFU image transducer before

➤ More safe and accurate treatment



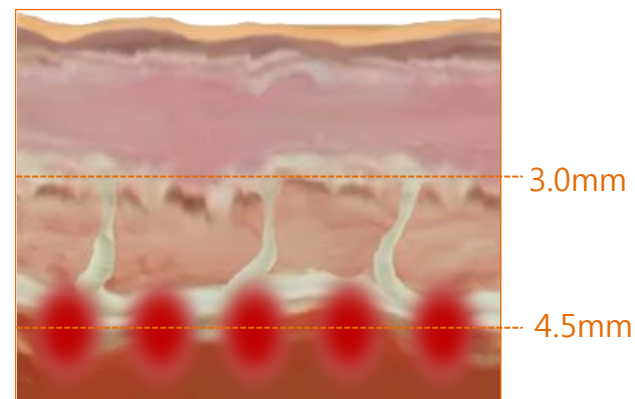
HIFU Image transducer

- 128CH sharper definition
- Check the skin depth and texture with image transducer
- Safe and accurate treatment is possible

4.5mm Cartridge



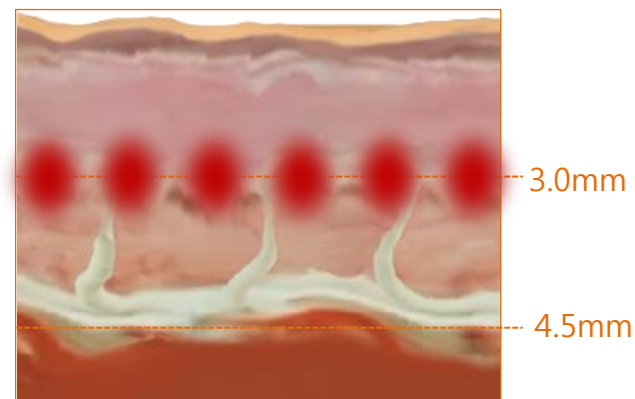
Frequency	4MHz
Depth	4.5mm
Spacing	1.2mm
Length	25mm
Coagulation point	26



3.0mm Cartridge

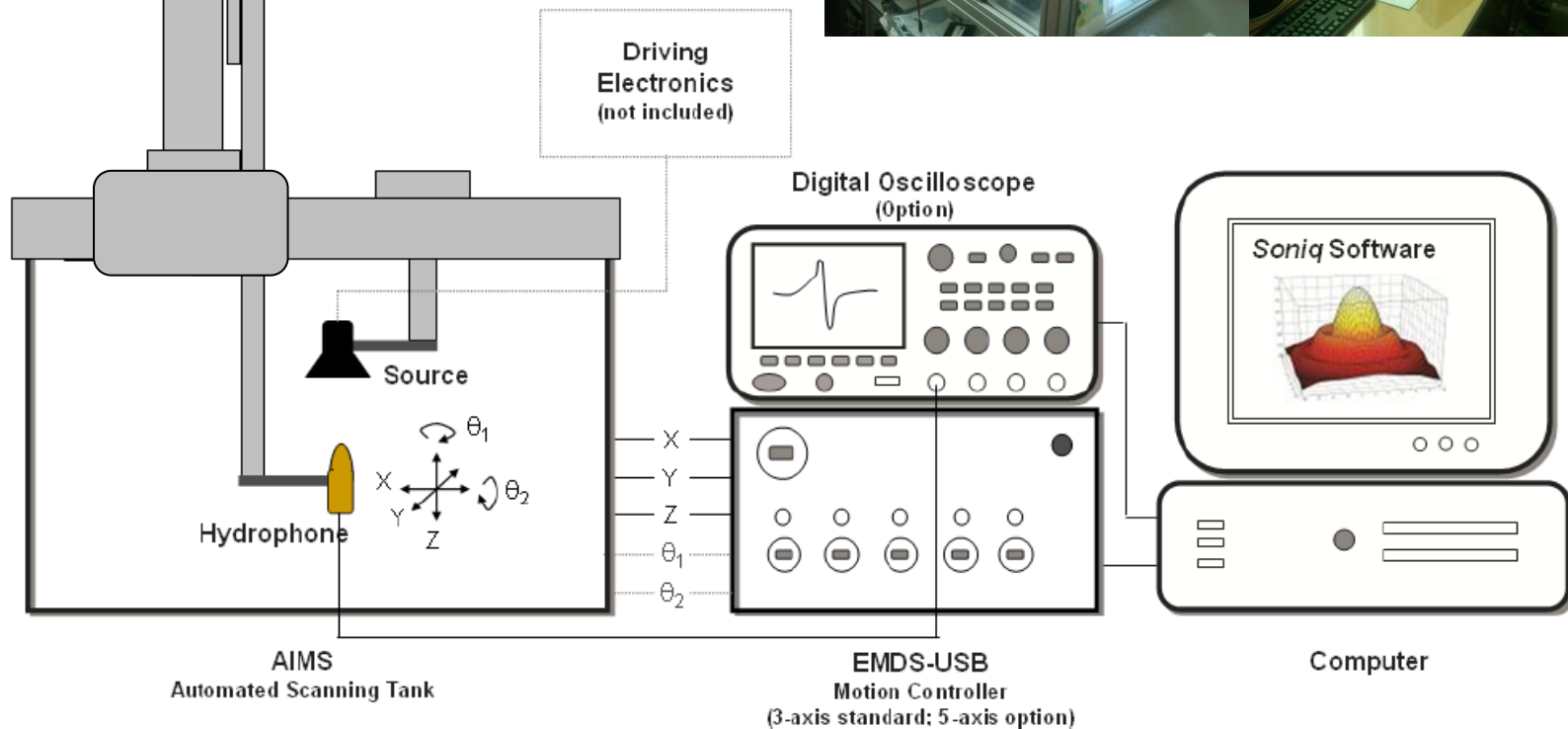
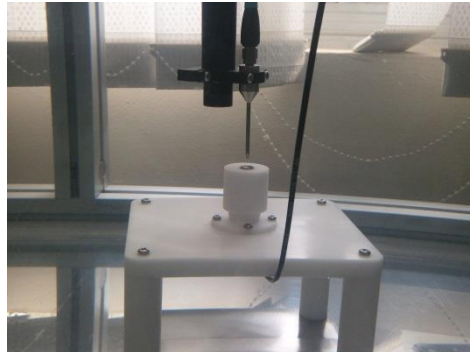


Frequency	7MHz
Depth	3.0mm
Spacing	1.0mm
Length	25mm
Coagulation point	31



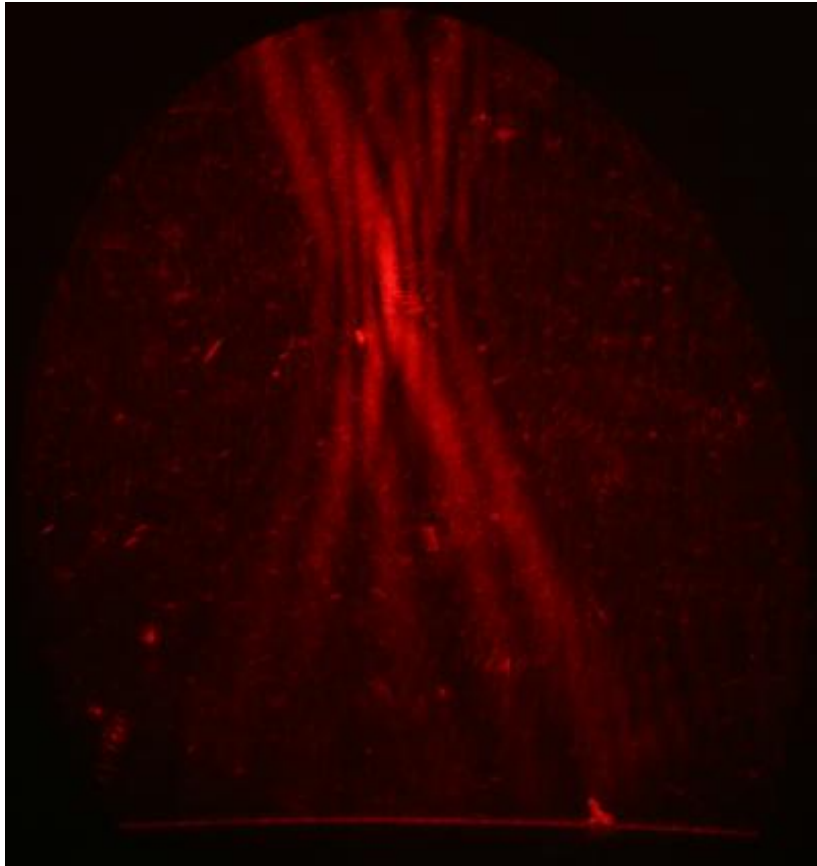


Measurement System

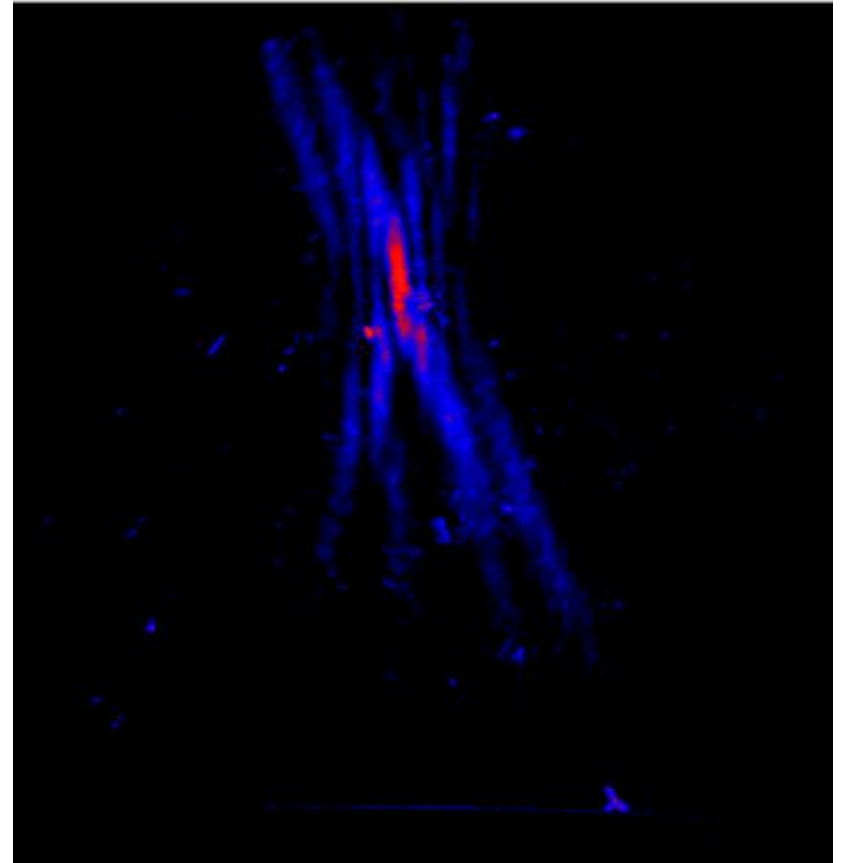




Schlieren Images



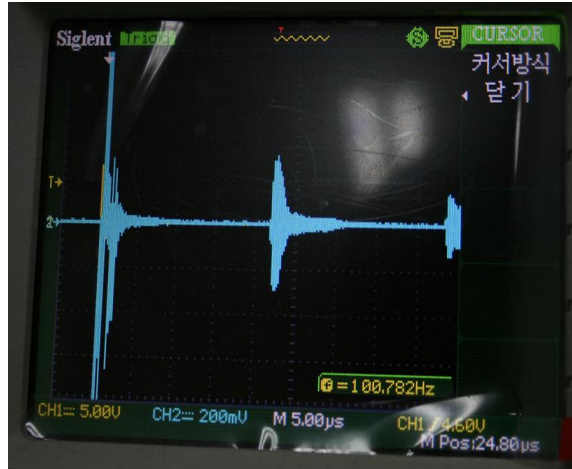
*Color
Mapping*



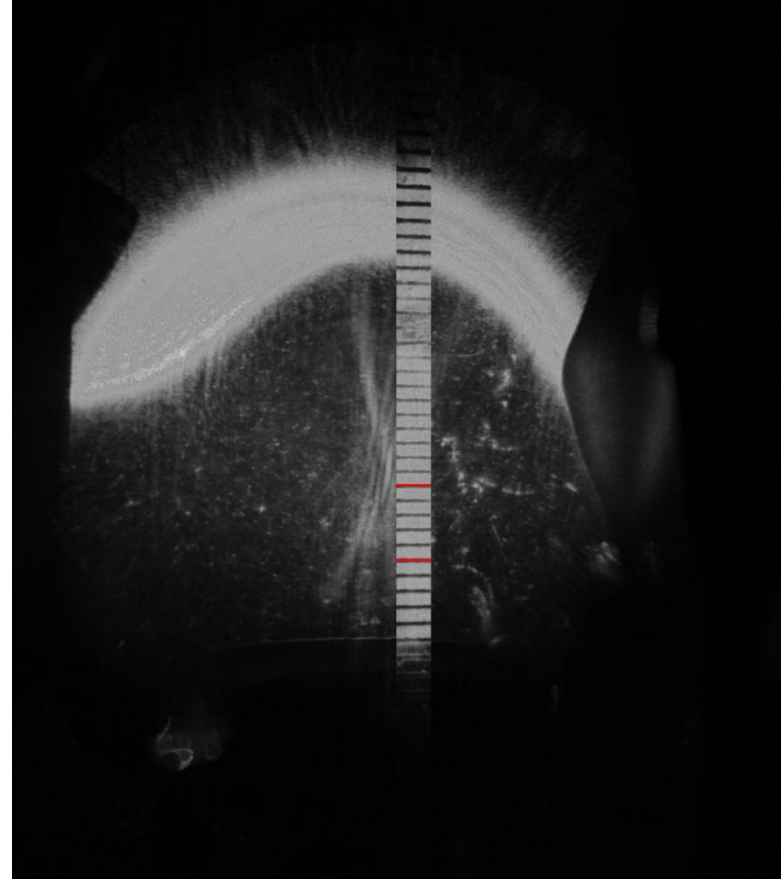
Schlieren Image of 4M HIFU



Schlieren Image Processing



Measured the length from bottom reflector to HIFU Peak Power
 - **Depth = 12 mm**

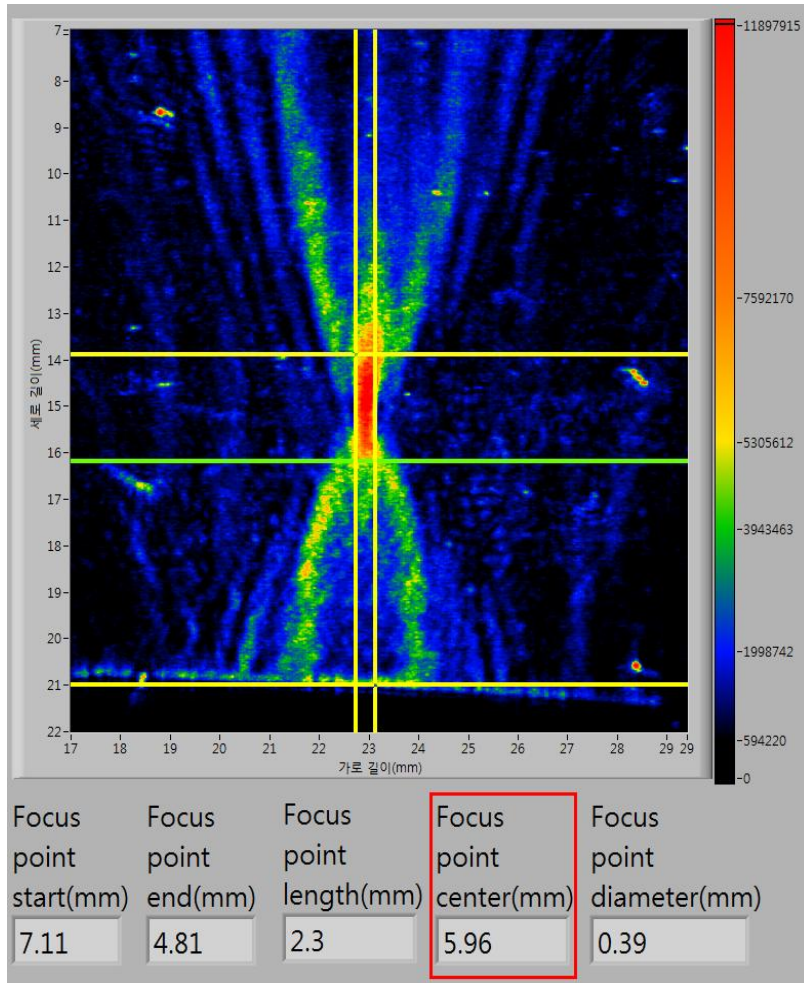


Measure the depth with ruler and compare with HIFU pattern.
 - **Depth = about 12 mm**

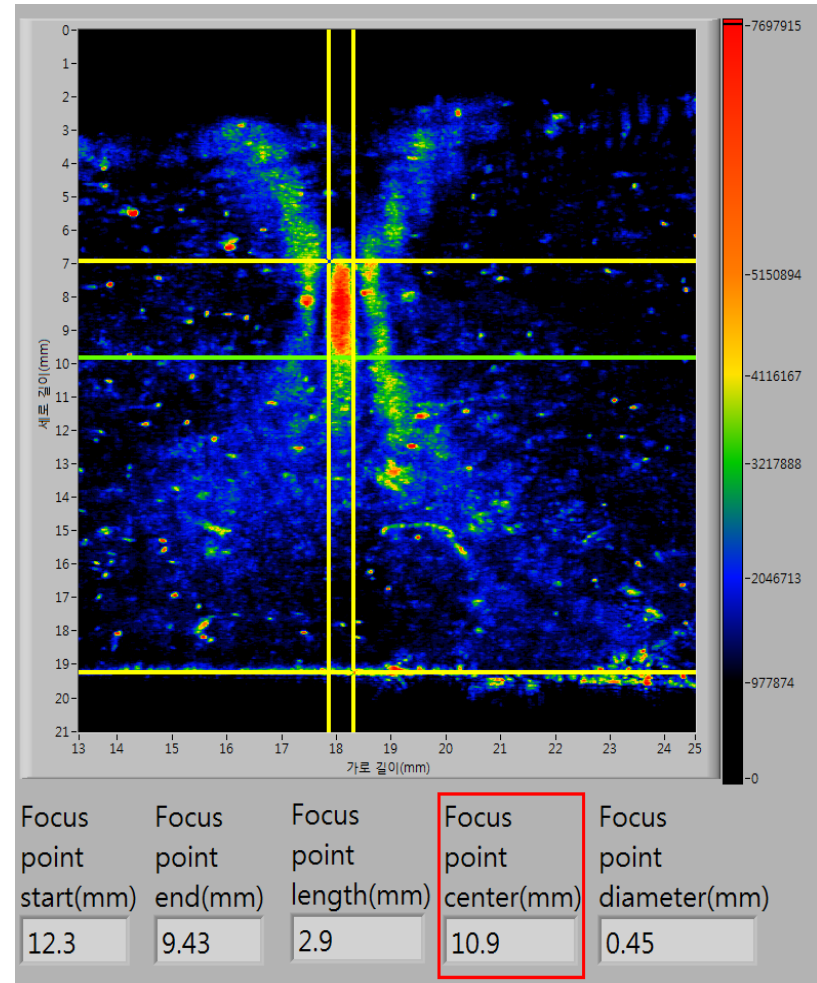


Schlieren Image Processing

Ultra Skin



- Made the software for digitize an image
- The result of measurement of B type 7M HIFU



- The result of measurement of C Type 4M HIFU



Procedure

1 Counseling

Check the skin
Texture and check
The target depth

2 Cleansing

Clean the skin
Before treatment

3 Anesthesia

Usually treat without
anesthesia,
but it's depends on
patients

4 Apply Gel

Apply the HIFU gel
on treatment area
Of the skin

5 Treatment

Treat the full face
or part.

6 After Care

Apply cooling mask
pack for soothe the
skin

Indication





Q & A

Q : How about treatment pain?

It's depends on parts of face and patients. You can feel warming and little pain, more painful on close parts with bones.

Q : How long takes for the treatment?

It takes 20 minute for full face treatment.

Q : When we can check the effect after treatment?

Usually 2~3 weeks later, you can notice the effect. You can see best effect after 2 month.

The effect works maximum 6 month.

Q : How long does the treatment effect??

You can have great result after only once treatment. If you want dramatic result, we recommend additional one more treatment after one month.

Q : How is skin care after treatment?

Apply sun block well when you go out. And moisturizing will be helpful.



Ultra-Skin Program

General Program	300Shot (Full face)	Part Program	[Jaw] 150Shot + Botox
Additional Program	300Shot + Thread Lifting		[Eyes] 100Shot + Filler
	300Shot + Botox	Whitening Program	300Shot + Laser Toning + Whitening
	300Shot + PRP + Repairing care	Tightening Program	400Shot + RF + Repairing care
	300Shot + RF	Intensive Program	300Shot + Mesotoxin
	300Shot + Fraxel + Repairing care		

Ultra Skin

Tek Seansla gelen g z ellik



 ncesi

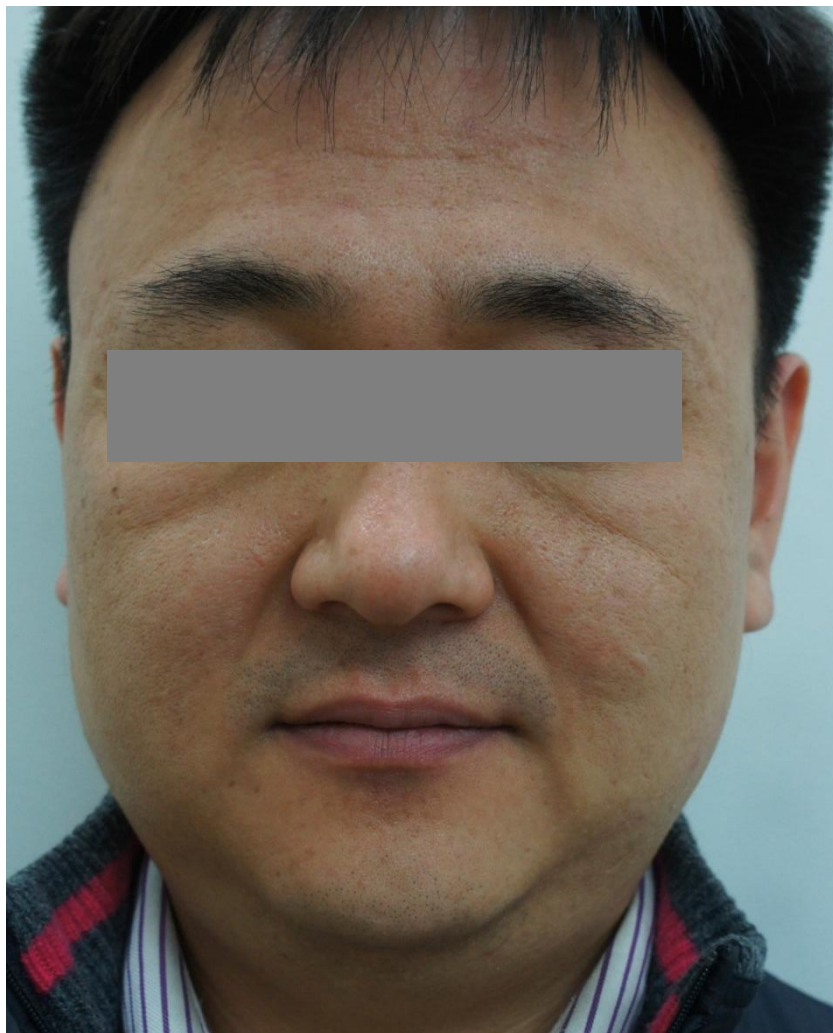
Before



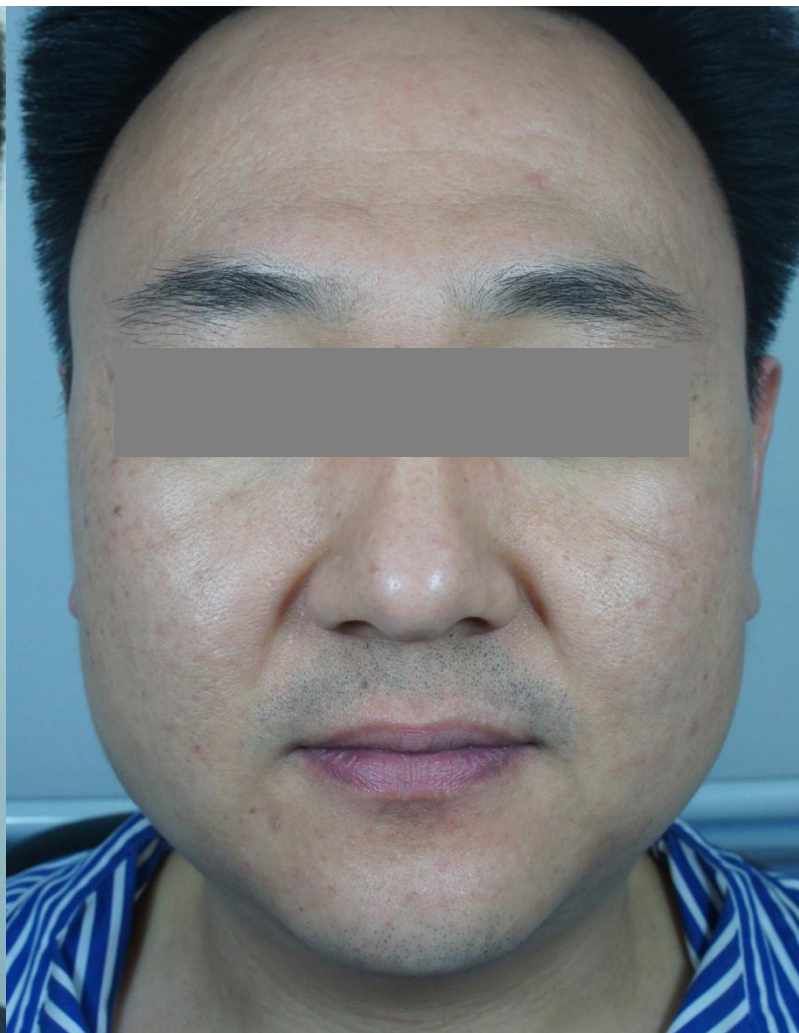
3 hafta sonrası

After 3 weeks

Clinic Data

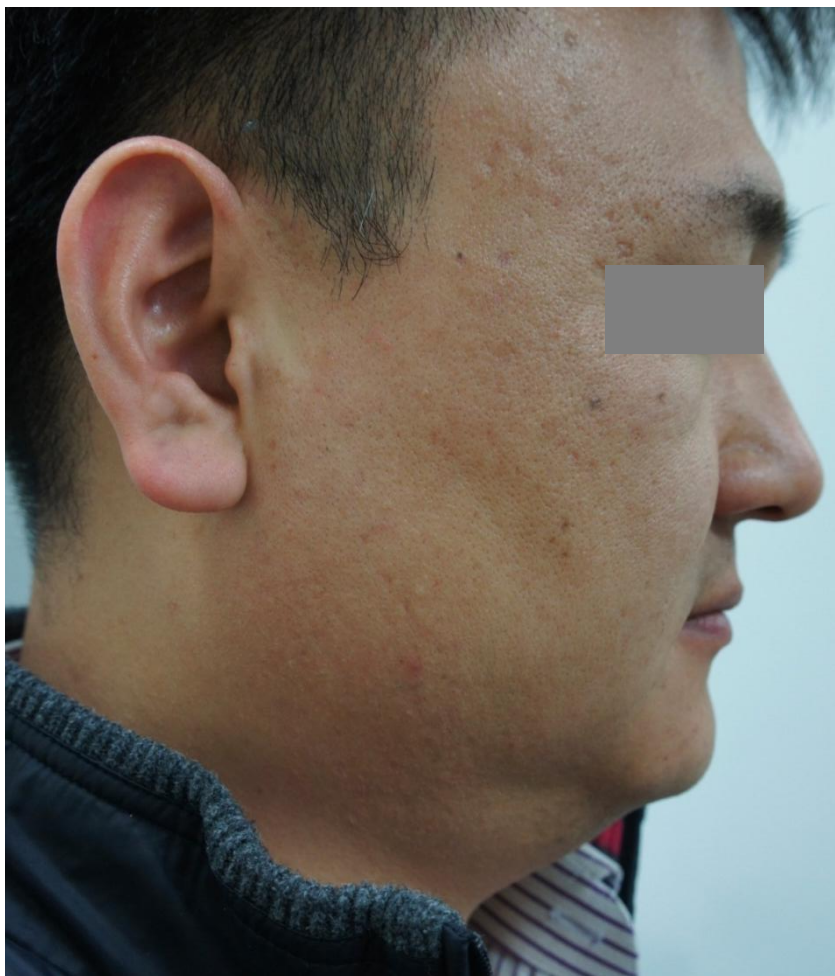


Before



After 2 month

Clinic Data



Before



After 2 month

Clinic Data



Before

After 2 month

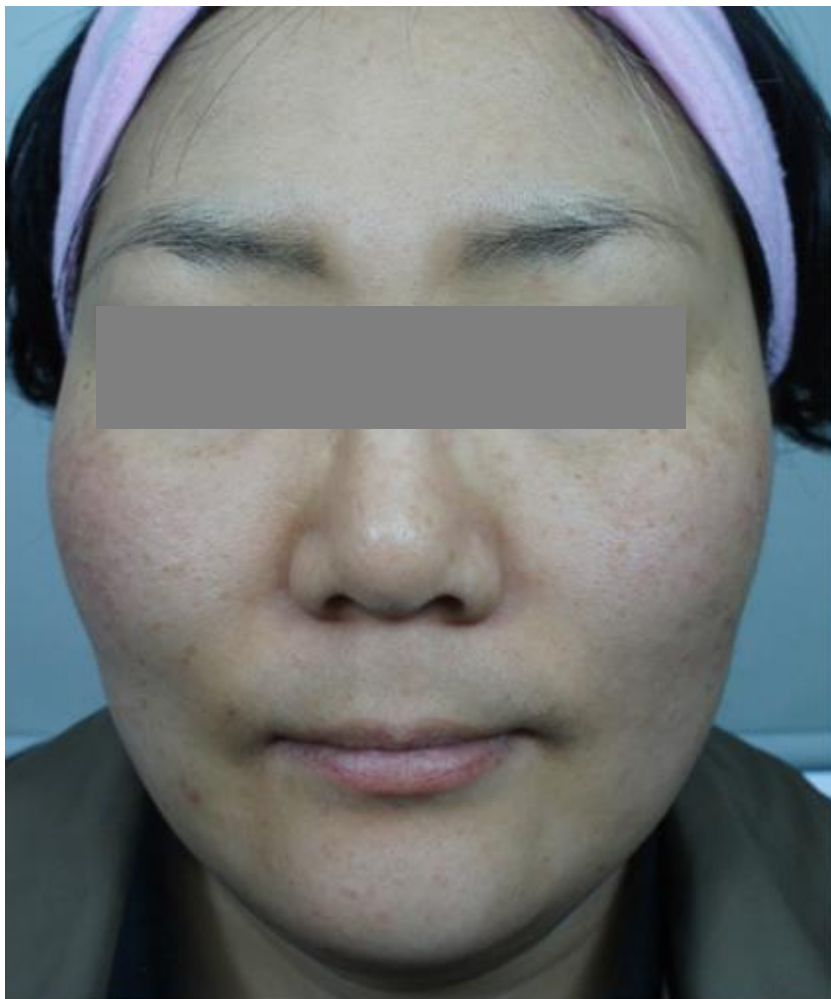
Clinic Data



Before

After 2 month

Clinic Data



Before



After 2 month

Clinic Data



Before



After 2 month

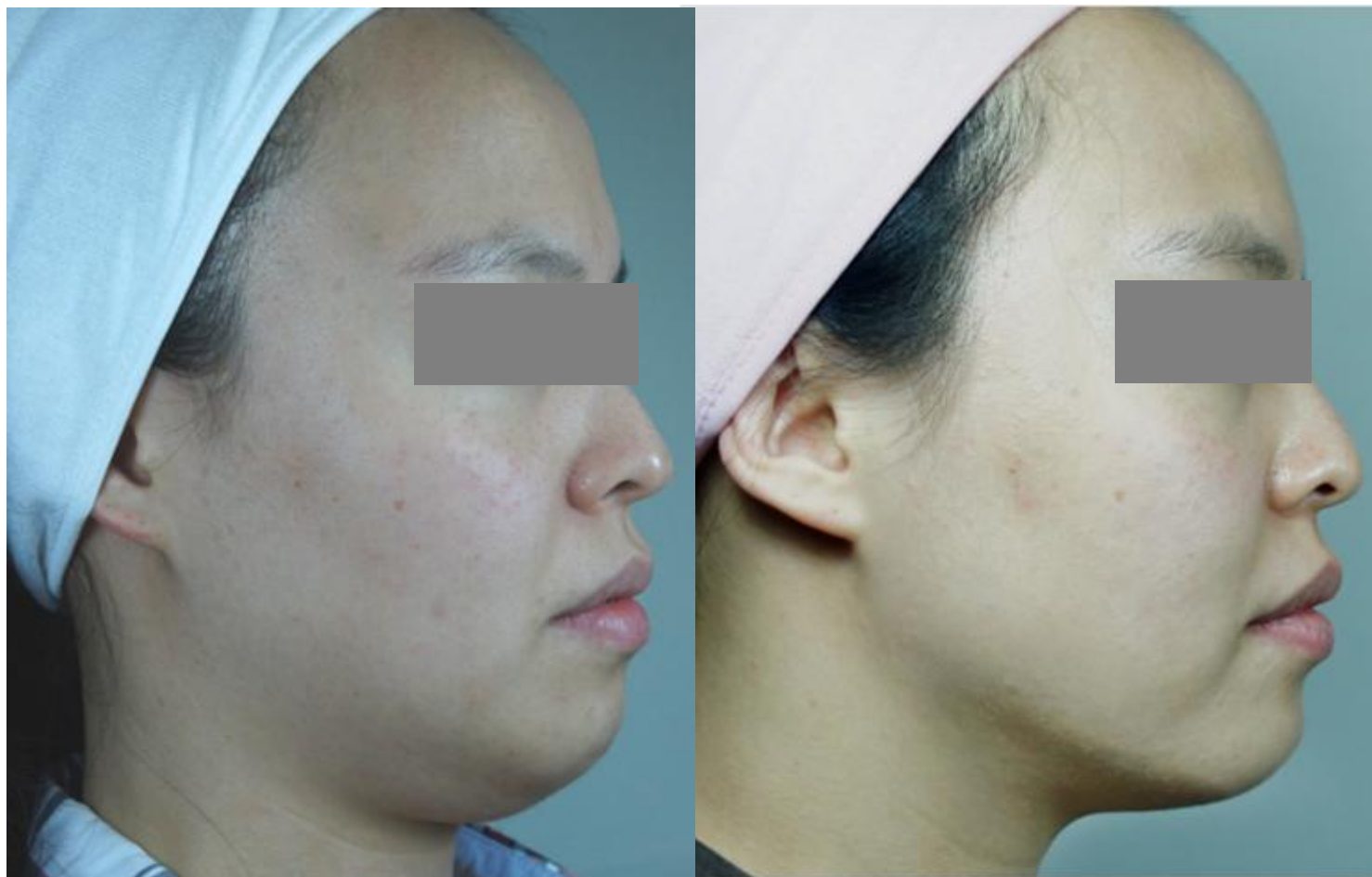
Clinic Data



Before

After 2 month

Clinic Data

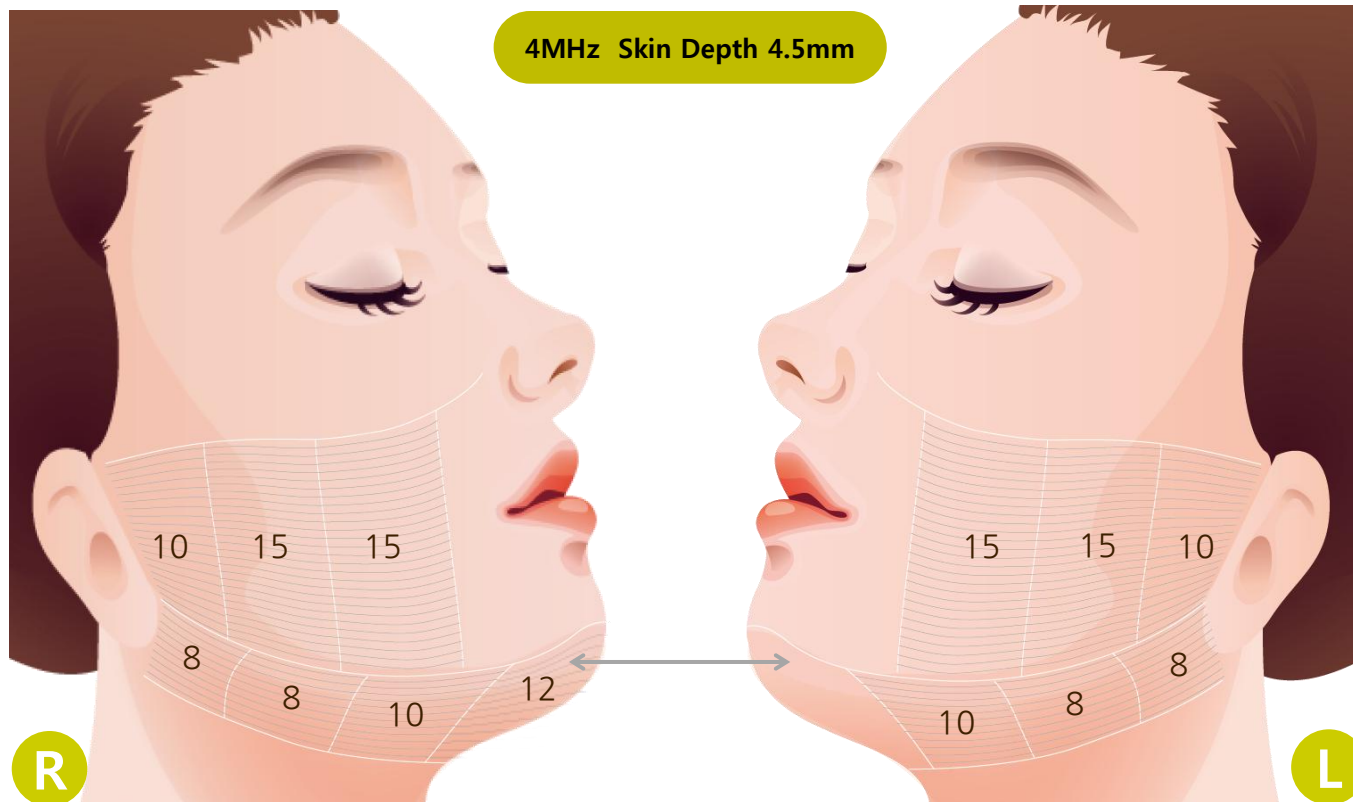


Before

After 2 month



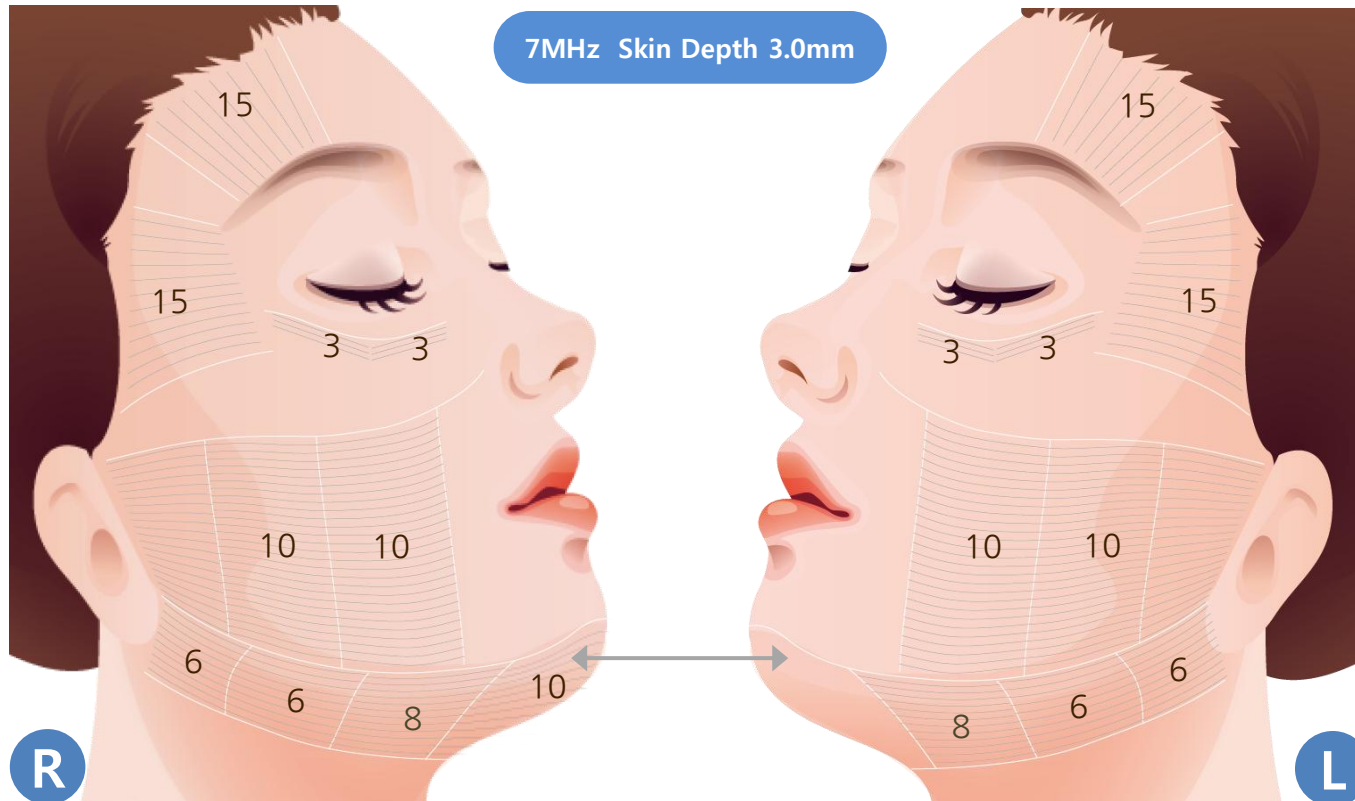
Guide Line ; 4.5mm



Region	Lower face
Energy	1.2~1.5J
Spacing	1.2mm
Length	25mm
Patient Line	144



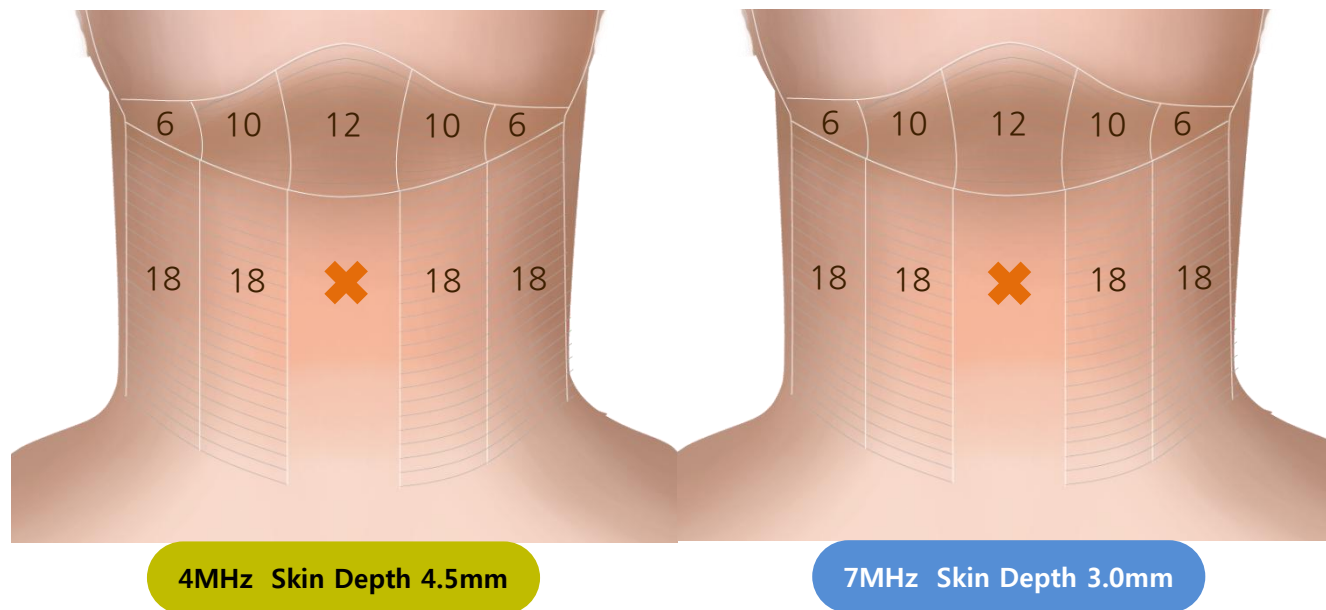
Guide Line ; 3.0mm



Region	Lower face + Upper face
Energy	0.8 ~ 1.0J
Spacing	1.0mm
Length	25mm
Patient Line	168



GuideLine ; 4.5 / 3.0mm



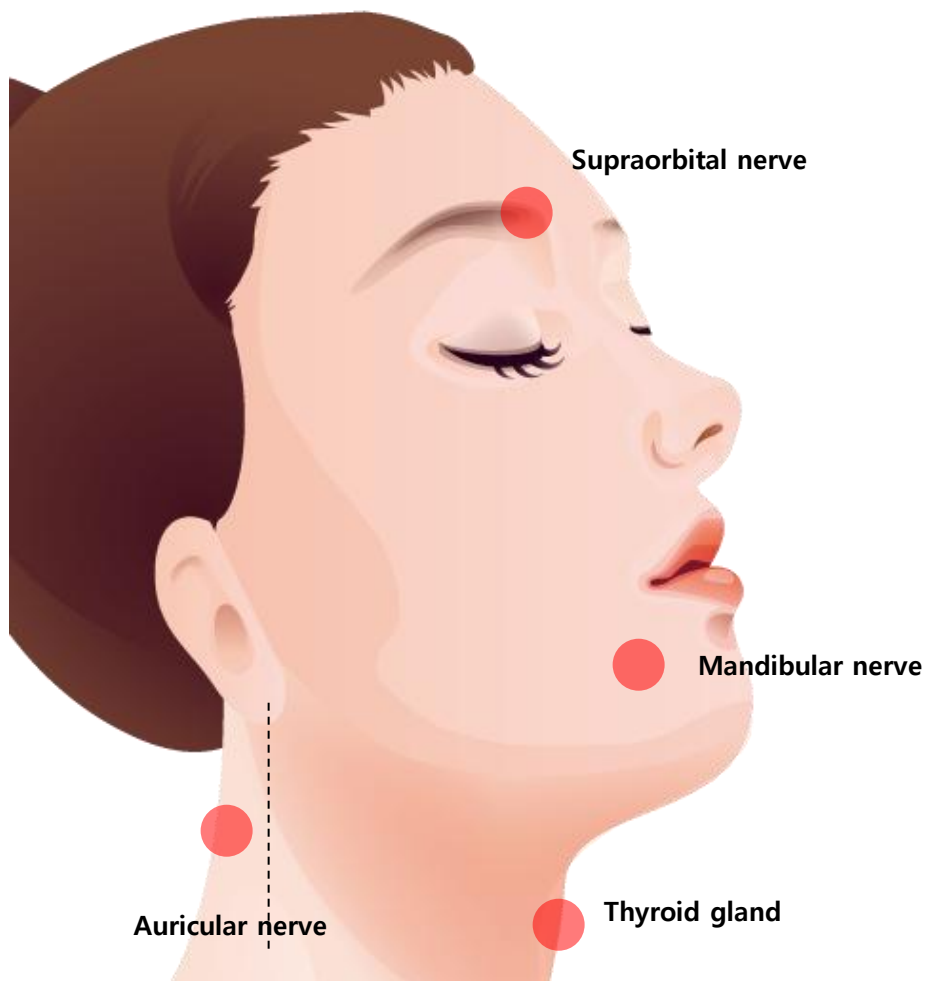
4.5mm

Region	Neck
Energy	1.2~1.5J
Spacing	1.2mm
Length	25mm
Patient Line	168

3.0mm

Region	Neck
Energy	0.8~1.0J
Spacing	1.0mm
Length	25mm
Patient Line	168

Caution Area





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