

With Fractional
Innovation



Introducing **tixel**[®]
For Skin Rejuvenation



By
Novoxel[®]
Small Smart Systems

tixel®

Treatment Options

Improves:

- Wrinkles and fine lines
- Skin discoloration
- Sun damaged skin
- Skin tone and texture
- Age spots
- Acne Scars



Why Tixel®?

(Pure Natural Heat)

- Tixel is similar in effectiveness to fractional lasers.
- It is a cost effective, sterile, fractional device for controlled vaporization of tissue.
- Compared to laser, Tixel treatment is safe with:
 - Less charring and crusting
 - Less pain without anesthesia or cooling
 - Less downtime and post care
 - No irradiation, just **pure natural heat**

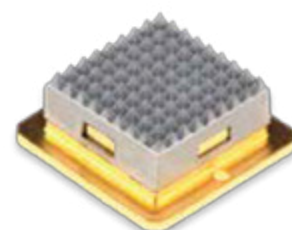
What is Tixel®?

Tixel is a novel thermal fractional skin rejuvenation system powered by Novoxel's patented technology.

Treatment is fast (15-30 minutes).

Tixel is lightweight, portable, and highly versatile.

Tixel can treat delicate skin, including peri-orbital, eye lids, neck, décolleté and back of the hands safely with very low pain.

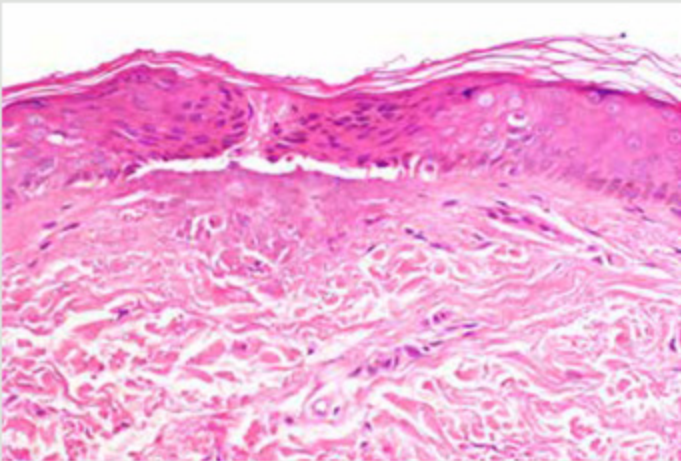


Tixel® Treatment Versatility-Fractional Ablative, Non-Ablative, Open Channel

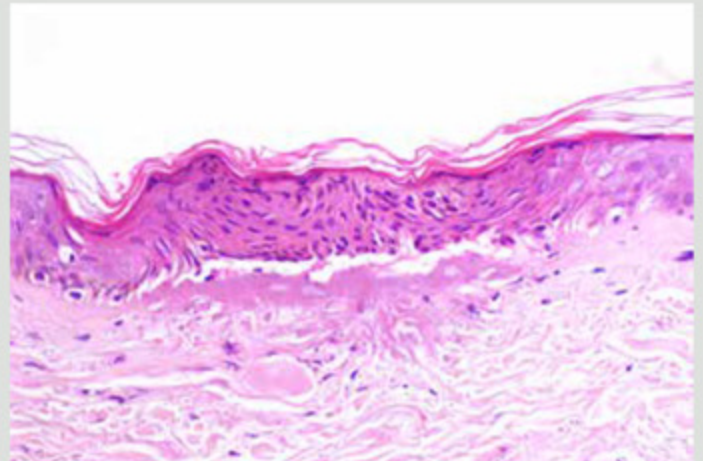
The extent of thermal damage is closely related to pulse duration.

Exposure time

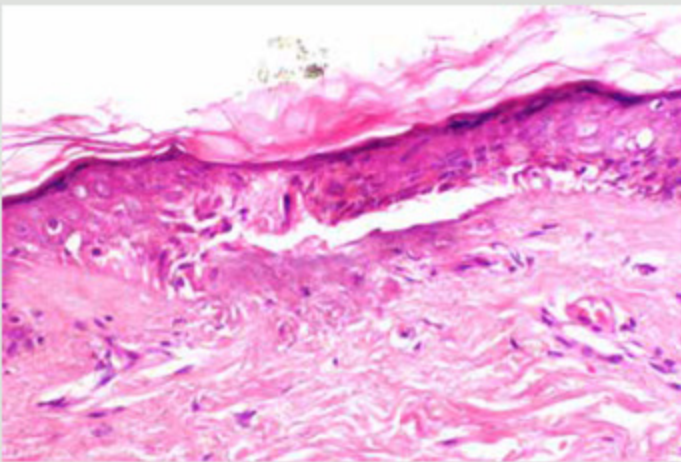
6ms



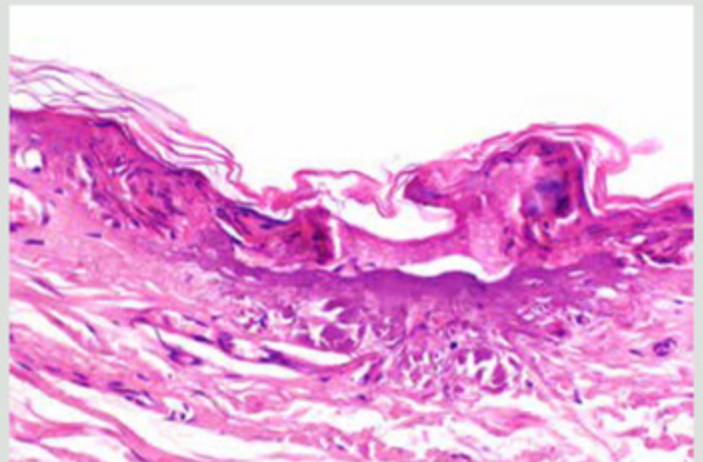
8ms



10ms



12ms



In vivo histology, male 63, skin type IV (Caucasian), left upper arm, X20



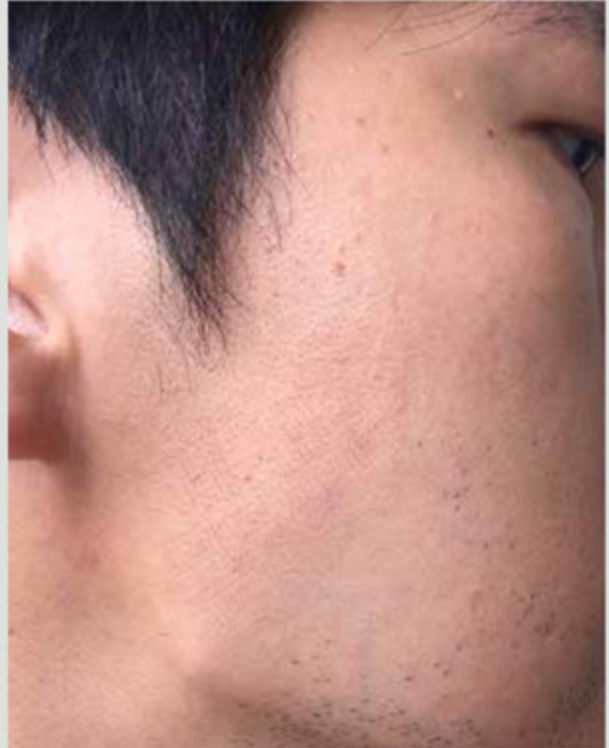
Healing 1 day after

Rapid clearance of erythema; very fine, nearly invisible crusting

6ms



8ms



10ms

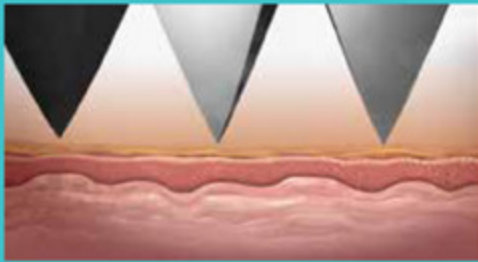


12ms

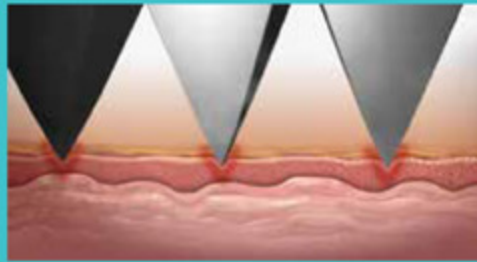


Tixel® Mode of Action

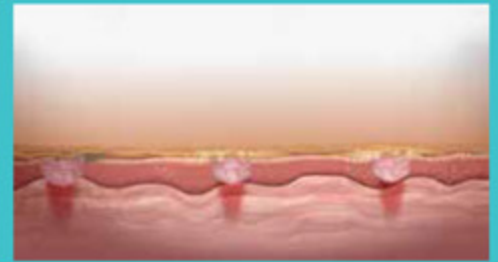
1. Before Contact



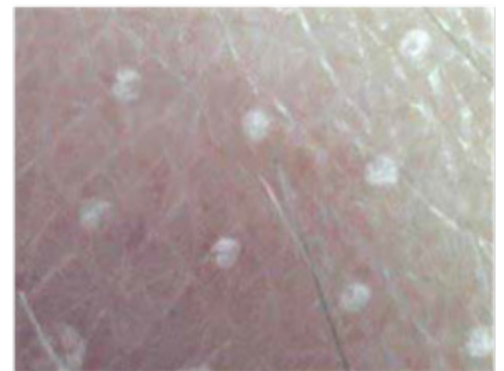
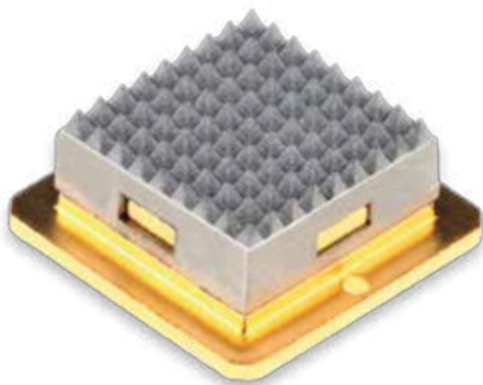
2. Brief Contact



3. Pores After Contact



Tixel employs a **bio-compatible heated (400°C) Tip** (1 cm² area) containing an array of 81 pyramids.



Non-Ablative

Upon brief contact with the skin, thermal energy is transferred to the upper skin layers, creating micron sized pores.

The extent of energy transfer is determined by the tip's skin exposure time and the tip's thermal conductivity. Therefore, various clinical effects will be obtained due to these properties.

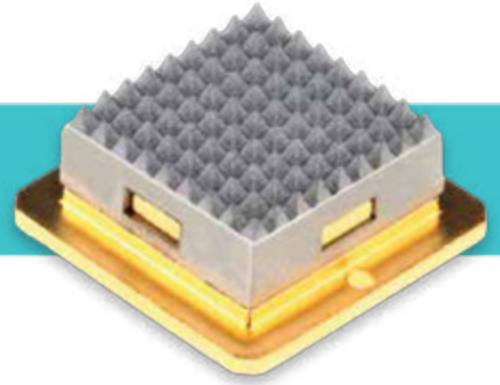


Ablative

Tip surface is made of titanium



Tip Properties



- Durable (no disposables)
- Always sterile
- Always clean (non-stick surface)
- Brush cleaning in situ within seconds

Technical Specifications

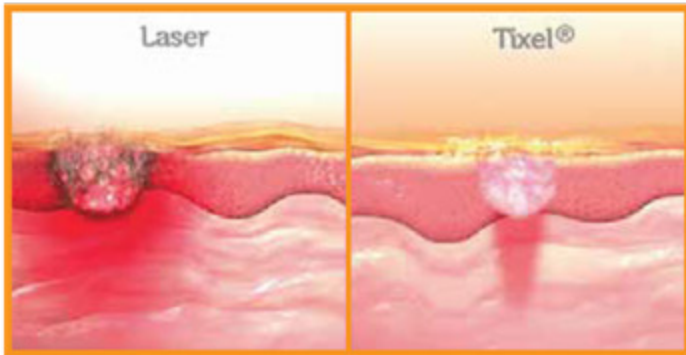
Energy Type	Natural heat, w/o radiation or radio waves
Tip Material	Titanium surface
Tip Coverage Area	1 cm ²
System Weight	5 kg
Handpiece Weight	330 grams
System Dimensions	L 48 x W 41 x H 48 (cm)
Operating Voltage	100-240 VAC 10% ± 2.5A 50/60Hz
Operating Power	up to 300 W
Working Temperature	400° C (-15°C/+5°C)
Pulse Duration	5-18 milliseconds (+1 millisecond)
<small>*Double pulse is enabled between 8 to 12 ms</small>	<small>(possible durations: 5,6,8,10,12,14,16,18)</small>
Pulse Protrusion	100-1000 µm, intervals of 100 µm
Micropore Dimensions	from 100 x 100 µm to 300 x 300 µm (W x D)

Specifications Subject to Change



Why Does Tixel® Have Less Pain & Downtime?

Laser and Tixel® Deliver Energy Differently



Ablative CO₂ Lasers apply higher energy density which results in disintegration of cell membranes as well as tearing of the stratum corneum. This results in charring, epidermal necrosis, fumes, and pain.



Treatment with Tixel is nearly painless. Analgesic creams or cooling are not required. Tixel shows a much lower pain level than a comparable laser treatment.

Comparison Fractional CO₂ and Tixel®

After 4 days – Quicker healing with Tixel®, Female 65 years

Courtesy of Nathalie Fournier, M.D.



Identical improvement on both sides



Before



2 Months Post Treatment

Clinical Experiences

Single Treatment, 12ms, Single pulse, One Pass



Before

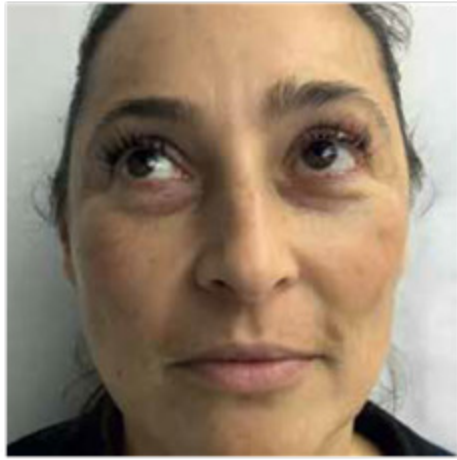
10 Weeks After



Clinical Experiences

Treatment of Melasma & Solar Lentigo, Female 43 years

Courtesy of Adina Margaritescu, M.D.



Before



3 Weeks After 1 Treatment



3 Weeks After 2 Treatments

Tixel® is Safe To Use With Darker Skin Tones

Acne Scars

Two Treatments, 12ms, Single Pulse, Two Passes



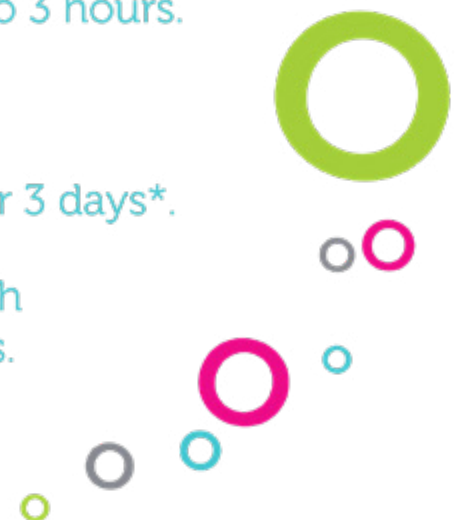
Before



30 Days After 2nd Treatment

- Spacing treatment sessions - 1 month apart.
Treatment Program: 3-5 sessions.
- After treatment skin is swollen and red for 3 to 4 hours and patients experience erythema and heat for 2 to 3 hours.
- Patient experiences **no downtime**.
- Crusting appears the next day, disappears after 3 days*.
- Improvement is visible after 1 to 2 months with smoother healthier skin and reduction in scars.

* Avoid visible crusting by moisturizing skin



Two Treatments, 12 ms, Single Pulse, One Pass



Before

30 Days After



Treat the peri-orbital area and eye lids safely with Tixel®

Skin Tone & Texture

Peri-orbital, Eye lids, Forehead, 8ms



Before



After 30 Days, 1 Treatment

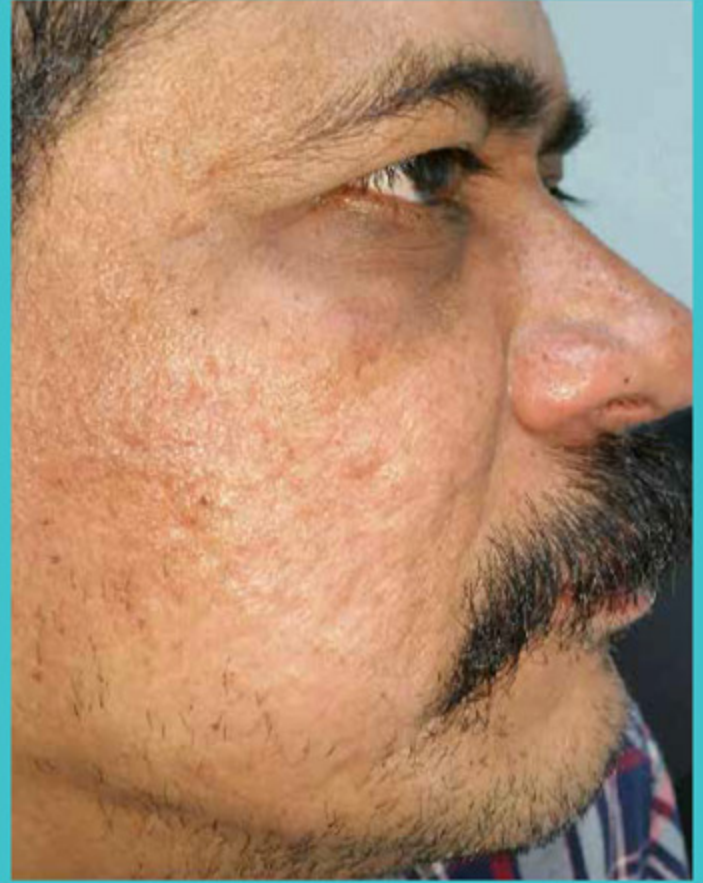
- Spacing treatment sessions - 2 months apart.
Treatment Program: 6 sessions over 12 months.
- After treatment skin is swollen and red for 3 to 4 hours and patients experience erythema and heat for 2 to 3 hours.
- Patients experience **no downtime**.
- Crusting appears the next day, disappears after 3 days.
- Improvement is visible after 1st month, 1st session.
 - Improvement in skin texture, younger look
 - Better definition of eye lids
 - Patient expressed satisfaction



Tixel® for Severe Acne Scars



Before



After 6 Treatments

- Spacing treatment sessions - 1 month apart.
Treatment Program: 5+ sessions.
- After treatment skin is swollen and red for 3 to 4 hours and patients experience erythema and heat for 2 to 3 hours.
- Patients experience **no downtime**.
- Crusting appears the next day, disappears after 3 days.
- Improvement is visible after 1 to 2 months with smoother, healthier skin and less visible scars.

