

# NANOPEN<sup>®</sup> PRO – PROFESSIONAL MICRONEEDLING DEVICE

The NanoPen<sup>®</sup> Pro is an FDA-cleared, professional microneedling device engineered for precision, safety, and reproducibility in clinical settings. It supports controlled dermal stimulation, tissue regeneration, and enhanced delivery of topical regenerative formulations through adjustable microneedling.



## PRODUCT OVERVIEW

The NanoPen<sup>®</sup> Pro is a professional medical-grade microneedling device designed for use by trained providers in aesthetic and regenerative medicine. It creates controlled microchannels in the skin to initiate the body's natural wound-healing response, promoting collagen synthesis, elastin production, and epidermal remodeling.

This process also facilitates the deeper transdermal delivery of adjunctive therapies such as PRP, exosome solutions, and peptide formulations.

## KEY SPECIFICATIONS & CLINICAL ADVANTAGES

- **Regulatory Status:** FDA-cleared for safety and efficacy.
- **Core Technology:** High-frequency oscillating needles create precise, consistent micro-injuries.
- **Customizability:** Features adjustable needle depth (0.25mm – 2.5mm) and interchangeable 14-needle cartridges for tailored treatments.
- **Primary Action:** Stimulates collagen/elastin production and enhances absorption of topical actives.
- **Design:** Ergonomic, lightweight pen design for clinician comfort and procedural control.
- **Protocol Integration:** Designed for seamless use as a standalone treatment or combined with regenerative biologics.

## MECHANISM OF ACTION

Microneedling with the NanoPen<sup>®</sup> Pro mechanically stimulates a controlled wound-healing cascade:

- **Stimulates Fibroblast Activity:** The micro-injuries trigger the body's repair response, promoting fibroblast proliferation and the synthesis of new collagen and elastin.
- **Enhances Product Delivery:** Creates temporary microchannels that significantly improve the absorption and bioavailability of topically applied regenerative agents.
- **Remodels Tissue:** Promotes dermal matrix remodeling and epidermal turnover, leading to improved skin texture and resilience.
- **Minimizes Trauma:** The precision-engineered system maximizes the regenerative response while minimizing unnecessary tissue damage and downtime.



## INDICATIONS & USE CASES

- Fine lines, wrinkles, and skin texture irregularities.
- Scar management (acne, surgical, stretch marks).
- Hyperpigmentation and uneven skin tone.
- Adjunctive therapy to enhance delivery and efficacy of PRP, exosomes, growth factors, and other topical regenerative formulations.
- Post-procedure recovery and skin rejuvenation protocols.

## KEY DEVICE COMPONENTS & FEATURES

- **Adjustable Needle Depth:**  
Provides precision control for targeting specific dermal layers based on anatomy and treatment goals.
- **High-Frequency Oscillation:**  
Ensures consistent, uniform microchannel formation for reproducible outcomes.
- **Operates on AC & DC:**  
Continue operation even if the battery is exhausted. **Up to 3 hours of operation** on a single charge.
- **Interchangeable Cartridges:**  
Sterile, single-use, medical-grade stainless steel 14-needle FDA-cleared cartridges.
- **Warranty:**  
2-year replacement warranty for the original buyer, providing peace of mind, comfort, and support programs.
- **Marketing Advantage:**  
When bundled with EleveXo™ or Ascellos® Exosomes, the provider can market an FDA-Cleared Acne treatment.
- **6-Speed Functionality:**  
FDA-cleared, 6-speed professional microneedling device.

## CLINICAL USE & PROTOCOL

- **Application:** For professional clinical use only, operated exclusively by trained providers.
- **Typical Protocol:** Treatment involves gliding the device over cleansed skin, often following topical anesthetic application. Procedures are often combined with exosomes, hyaluronic acid, or other serums, as well as light therapy.
- **Post-Treatment:** Skin may exhibit transient redness and sensitivity. A gentle skincare routine and strict sun protection are recommended to promote optimal healing and results.
- **Sterilization & Safety:** Follow all device-specific sterilization, safety, and needle disposal guidelines.



*The NanoPen® Pro is intended for professional use by licensed practitioners. It is not intended to treat systemic diseases or cure medical conditions.*

*NanoPen® Pro is the registered trademark of Zizion® Group, Inc.*



561-325-7000 ☎  
Support@RegenOMedix.com ✉  
141 NW 20th Street, Boca Raton, FL 33431 📍  
nanopen.pro 🌐

