Revolutionising implant dentistry

The Penguin II ISQ device as an example of progress

In the ever-evolving landscape of modern dentistry, technology continues to reshape the way professionals approach their craft. Among the many groundbreaking innovations in recent years, the Penguin II implant stability quotient (ISQ) device from Integration Diagnostics Sweden stands as a shining example of progress. This remarkable device is redefining implant dentistry and enhancing patient outcomes like never before.

A vision of accessibility and simplicity

Founded in 2015, Integration Diagnostics Sweden embarked on a mission to simplify the complexities of implant dentistry. The company recognised the need for an accessible and user-friendly ISQ measuring system that could benefit all dental practitioners working with implants. In November 2018, the company solidified its commitment to excellence by becoming part of the world-leading NSK Nakanishi group.

The power of resonance frequency analysis

At the heart of the Penguin II's success lies its utilisation of resonance frequency analysis. This technique involves exciting a MulTipeg attached to an implant and measuring its vibration frequency as an ISQ value. This value serves as an invaluable indicator of implant stability, reflecting factors such as bone quality and osseointegration. By providing a reliable ISQ value on a scale from 1 to 99, the Penguin II equips dental professionals with unprecedented precision.

Removing doubt, enhancing precision

One of the most notable features of the Penguin II is its ability to eliminate doubt from the implant dentistry process. Dentists can now assess osseointegration with unparalleled accuracy, enabling them to make informed decisions regarding the timing of implant loading. This capability is especially vital in a landscape where the trend is towards a minimal or no healing phase before implant loading. With the Penguin II, practitioners can confidently measure implant stability, ultimately improving the likelihood of successful patient outcomes.

Empowering dentists with data-driven decisions

The ISQ scale provided by the Penguin II serves as a powerful tool for dentists, offering objective values at various stages of osseointegration. This enables surgeons and restorative dentists to plan and execute implant procedures with heightened confidence and predictability. By ensuring better primary stability through precise ISQ measurements, the Penguin II plays a significant role in

reducing the risk of implant failure—a concern that weighs heavily on both clinicians and patients.

A trusted companion in dental clinics

Dr Adel Fani, a seasoned dental surgeon, has been using the Penguin ISQ device since 2017, and it has become a standard method for measuring implant stability in his clinic. Dr Fani conducts measurements both at the time of implant placement and before the final restoration. For challenging cases involving longer healing periods, unpredictable osseointegration or poor bone quality, he relies on the Penguin ISQ data, combined with radiographs and other modalities, to arrive at an objective diagnosis for his patients.

Dr Fani highlights the convenience of the reusable MulTi-pegs, which make planning implant procedures more efficient and cost-effective. The introduction of the Penguin II has further streamlined his workflow thanks to features like the new charging station, which also functions as a tabletop stand, and easily replaceable batteries.

In conclusion, the Penguin II ISQ device is not just a dental device; it represents a transformative shift in implant dentistry. Integration Diagnostics Sweden has developed a tool that empowers dental professionals to achieve exceptional results and enhance patient satisfaction. As we move forward, the Penguin II's impact on the world of implant dentistry will undoubtedly continue to grow, ushering in a new era of precision and confidence in dental care.

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Product information