

Dental **PRODUCT
SHOPPER**

The Quality & Simplicity You Need, **The Comfort Patients Want**



DEXIS™ Titanium Digital Intraoral Sensors are easy to integrate into any practice, quickly providing crisp images for diagnosing and treatment planning—while keeping patients comfortable throughout the process.





The Sensor That Wows

DEXIS Titanium digital intraoral sensors offer durability and simplicity, which are an important part of your ability to provide quality care to your patients while improving the overall experience within the practice.

When Dr. Jordan Luna bought his first dental practice about seven years ago, he knew he wanted to upgrade the traditional sensors inherited from the previous doctor to a digital solution. After talking with sales reps and colleagues, it was clear which option was right for his new office: DEXIS Titanium intraoral sensors.

Dr. Luna liked the fact that he didn't have to buy multiple sensors; the DEXIS Titanium sensor is one-size-fits-all and works for both adults and pediatric patients. That wasn't the case with other sensors he was considering. Then, of course, there's the image quality. Images are clear and crisp, which he felt would improve his diagnostic and treatment planning capabilities as well as enhance patient education.

The easy-to-use sensors have done exactly that for his now two Texas-based practices, and are part of what he describes as a system of DEXIS Imaging products. Dr. Luna has invested in the NOMAD™ Pro 2 Handheld X-ray System, the i-CAT™ FLX V-Series and the ORTHOPANTOMOGRAPH™ OP 3D x-ray imaging system.



Dr. Jordan Luna

"That's the best of the best, and if I'm going to see patients, I want to offer them high-quality dental work with the best products possible."

He uses all of this technology for a variety of workflows to wow his patients, make their experience more comfortable, and increase case acceptance in his practice.

"To me, with that combination of products, you have it all. That's the best of the best for me, and if I'm going to see patients, I want to offer them high-quality dental work with the right combination of products," he said. "The success I've had over the last seven years is because of the system I've put in place. It's worked for me so far and it's probably going to work for me until I retire."

The recently updated sensors, which are designed for durability, play an important role in that system. Not only are they easy to use, they provide stellar image quality. The small size and rounded edges in the TrueComfort design make the sensors comfortable, even for gaggers and patients with small mouths who usually dread the image-taking process. Patients are impressed by the technology, and by how comfortable the experience is.

DEXIS Titanium sensors provide the quality and simplicity dentists need for successful diagnoses and treatment planning, and the comfort patients want. Here's a closer look at the benefits these sensors offer, and why it might be time to incorporate them into your practice.

A Focus on Image Quality

The DEXIS Titanium sensors were designed to consistently capture crisp, clean images. The images feature enhanced tissue contrast across a broad spectrum of radiation levels, including low doses.

What makes the images so clear and crisp? Through the CleanCapture Process, the noise responsible for pixelated, low-detail images is drastically reduced. The high-resolution data taken is captured as the image is processed, with the sensors actually cleaning and concentrating that data before it reaches the software. The advanced pixel design balances pixel size and scintillator performance, hitting what's known as the sweet spot for images. Once data is transmitted, it can be further improved via the software's image enhancement tools.

Dr. Luna displays these high-quality images, along with images captured from his i-CAT FLX V-Series and the OP 3D, on a 46-inch flat screen HD TV. Doing this makes it possible to zoom

in to show patients what he's seeing and why he's recommending certain treatment. This allows patients to better understand what's going on in their mouths, while also helping him earn their trust.

"I use the images as a teaching tool," Dr. Luna said. "I'm known for showing patients exactly what we're doing instead of blindly recommending treatment. DEXIS Titanium allows me to do that."

Educating Patients

Dr. Carmen Nelson, who used the DEXIS Platinum sensors in her office for 10 years before recently adding a Titanium sensor, also displays images to help with patient education. She can show them where decay might be starting or where they have bone loss or caries under a restoration. Many of her patients can look at an image now and say, "Oh, that's a cavity," because they've seen them on x-rays in the past.

The resolution is always consistent and the images are high quality—both of which are critical for diagnosis



A team member in Dr. Luna's practice prepares to take radiographs with DEXIS Titanium sensor.

and treatment planning. She also describes the reduction of errors as "tremendous."

This, combined with how easy

DTX STUDIO™ CLINIC SOFTWARE

This software from Nobel Biocare enables dentists to open all images from the patient library, including those taken with the Titanium sensors, making it easy to access the most up-to-date images in every operatory whenever they're needed.

The software simplifies image acquisition and keeps all 2D and 3D imaging data together, making them easy to access for diagnostics, treatment, and follow-ups. The software is open for import and export, offering multi-room access on Windows PC and Mac. There's also a unified diagnostic view through SmartLayout and SmartFocus.

"It integrates with our practice software Dentrax perfectly," Dr. Luna said. "I also like that the software is user-friendly. I can upload, save, and send radiographs very easily."



and quick it is to take images, has streamlined Dr. Nelson's workflow, which in turns has enabled the practice to schedule more patients.

"The sensors are fast, accurate, and reliable," Dr. Nelson said. "I can see so much more in these images; there's no guesswork in what I'm looking at. I can make the images bigger, I can zoom in on a particular spot, I can adjust contrast, and I can invert them."

Patient Comfort

Some of the older patients who come into Dr. Luna's office are used to traditional film—and they're blown away by the combination of the DEXIS Titanium sensor and the handheld NOMAD Pro Handheld X-ray System. The small size and rounded edges make the sensors comfortable, and instead of the process taking 15 or 20 minutes, with the Nomad it takes 3 or 4.

The Nomad Pro 2 makes it easy to position the sensors, take an image, and move on to the next one, Dr. Luna said. He and his team members can move the sensors around a patient's mouth with minimal effort, instantly capturing the needed images.

Dr. Nelson's assistant loves using the durable, reliable sensor for gaggers. She tells them to bite down, count to three, and then it will be time to move to the next one—and that's exactly



DEXIS Titanium sensors are known for flawless integration with practice management systems.

SOLUTIONS THAT TRANSFORM THE PRACTICE

Building on over 200 years of dental expertise, DEXIS™ solutions transform practices and patient smiles. With an ever-expanding portfolio of award-winning digital solutions, DEXIS imaging innovations encompass breakthrough technologies in CBCT, intraoral scanning, implant planning, handheld x-ray, and navigated surgery. From the groundbreaking i-CAT™ and handheld NOMAD™ x-ray system to the smart DEXIS Titanium intraoral sensors, see why over 150,000 offices worldwide trust DEXIS imaging. Rely on DEXIS imaging to simplify your digital practice roadmap and support your success with industry-leading expertise.

what happens, improving the overall experience for these patients.

They're Easy to Use

Like Dr. Nelson, Dr. Edward Lew invested in the Titanium sensors after using the Platinum for many years. "The sensors are easy to use and have excellent image qualities," he shared, adding, "They have user-friendly toggling with clarity and contrast functions for viewing and diagnosing. The sensors are well made and can withstand much abuse without any distortions."

Users of the DEXIS Titanium sensors say one of the main benefits is their simplicity. In one click, the images appear on the monitor, Dr. Carmen said, making the process incredibly fast. The fact that the sensors easily slide over to the next position also helps make the process seamless for the assistant and more pleasant for the patient.

Setup time is minimal and adjustments are rare, Dr. Lew said, and the learning curve for team members is short. While training is required, it doesn't take long for staff to become comfortable with the workflow.

In Dr. Luna's practice, it only took a few days to get up and running with the sensors—even though team members were used to working with traditional film. The integration with Dentrax software and the various other imaging products Dr. Luna uses was seamless.

DEXIS Titanium sensors are also easy to calibrate, Dr. Lew said. In fact, they're known for their seamless integration, in many cases without the need for a bridge or additional software modules. The sensors integrate with most practice management systems as well as advanced platforms like DTX Studio, Apteryx Imaging, Dentrax Ascend, Dentrax, DEXvoice, and Eaglesoft Advanced Imaging.

Give Them That Wow Factor

DEXIS Titanium sensors not only make the imaging process seamless for dental professionals, they may also improve the patient experience. Patients remain comfortable throughout the entire process.

"Radiographs play a huge part in our day-to-day operations, helping us diagnose, treatment plan, and handle emergencies," Dr. Luna said. "These sensors help me find the little things that are sometimes missing or might lead someone coming in for a second opinion to say, 'Oh, my doctor doesn't have this, but now I see it, I know what you're talking about.' It may help put gaggers and patients with small mouths who were once anxious at ease. I can also use the sensors on children. I can use the same sensor for all these different circumstances, instead of having multiples and trying to determine which one fits. I grab one sensor, take the x-ray and my problem is solved."

Enhanced Durability

DEXIS Titanium intraoral sensors are now even more sturdy, featuring materials typically used in the aerospace industry.

The team at DEXIS imaging is always looking for ways to enhance products that are already at the top of their game, and DEXIS Titanium is no exception. The next generation of this popular product now features an amorphous engineering thermoplastic known as polyetherimide (PEI) that gives the sensors even more tensile strength.

This material has four key benefits: broad chemical resistance, strength and stiffness, dimensional stability, and environmental stress and cracking resistance. A specialty manufacturer helped the team formulate a version of the material that could be used intraorally, leading to enhanced durability that also makes the sensors more reliable than its predecessor—which is key for products dentists use every day.

The housing stands up to heavy physical use, protecting the various components that make the sensors so special. The slightly domed surface can withstand a significant amount of stress, which might come from patients biting on the sensor or it being dropped, distributing the weight or force out evenly in all directions. That's how the sensor so effectively resists cracking and avoids breaking.

DEXIS TITANIUM: STANDING APART FROM THE PACK

SMART Capabilities

Designed for efficiency, the sensor's gesture-recognition feature is inspired by mobile technology. The sensors have a motion detection device that's similar to what's found in a cell phone. Simple hand motions initiate image acquisition within the DEXIS imaging software, may save even more time. Here's how it works:

- A vertical up-and-down motion triggers a vertical bitewing series
- A horizontal back-and-forth motion triggers a horizontal bitewing series
- A circular motion launches a full mouth series
- Triangular motion triggers to go back in the series
- Moving the sensor in a "C" motion triggers to cancel the series



"A major benefit has been the cord. It's a little more flexible and less likely to break."

—Dr. Nicole Salamy

Dr. Nicole Salamy, who's used both the Platinum and Titanium sensors, noticed the cord is stronger and more flexible.

"When I updated to the Titanium, I just wanted the latest technology," she said. "A major benefit has been the cord. It's a little more flexible and less likely to break."

Of course, the enhanced version features the design elements that made the DEXIS Platinum sensors so popular. Patients still benefit from the TrueComfort design of the PerfectSize sensor. They have a comfortable experience, while dentists can consistently turn to one sensor for all their imaging needs. In fact, the sensor's shape and size is now even more refined, allowing for fast and comfortable placement as well as efficient, stress-free workflows.

Automatic Turn-Off

Through SMART capabilities, the sensor turns off if an issue is detected. The LED indicator light turns green if the sensor is connected properly and red if a power issue has been detected.

USB 3.0 Connector

This plug-n-play connector has a higher capacity for more smooth insertions than the USB 2.0, allowing for reliable portability.

WiseAngle

This feature reduces stress for the sensor-to-cable connection. During laboratory tests, DEXIS Titanium's cable withstood being flexed more than 100,000 times, maintaining signal strength as data moved from the sensor to the computer.





Additional Resources

