

Dedicated to Advancing Dental Treatment













A COMPLETE 3D TREATMENT SOLUTION

Your dental practice is unique — that's why you need a flexible solution that works with your practice and provides the control you need to deliver optimum care to your patients. Now, you can get more from your cone beam 3D unit and expand your practice with comprehensive treatment solutions from i-CAT.

Quickly diagnose complex problems and develop treatment plans more easily and accurately with i-CAT. Your practice will benefit from its flexible 3D planning and treatment tools for implants and restorations, oral and maxillofacial surgery, orthodontics, periodontics, endodontics, and TMJ and airway analysis.



WHY i-CAT?

Let us show you...

MOST TRUSTED 3D BRAND

AWARD-WINNING PERFORMANCE	2
THE i-CAT PHILOSOPHY	4
SCAN	5
PLAN	7
TREAT	9
FASTEST 3D WORKFLOW	11
FLEXIBILITY AND CONTROL	12
SPECIALTIES	13
ORTHODONTICS	13
IMPLANTS	17
ORAL & MAXILLOFACIAL SURGERY	19
PERIODONTICS	21
ENDODONTICS	23
TMJ	25
AIRWAY ANALYSIS	27
i-CAT FLX FAMILY OF PRODUCTS	29
TECHNICAL SPECIFICATIONS	31
3D EDUCATION	32



THE MOST COMPREHENSIVE 3D TREATMENT SOLUTION, FROM THE MOST TRUSTED 3D IMAGING BRAND

i-CAT Solutions Have Been Installed in More than 5,000 Sites Around the World

i-CAT owners have access to highly specialized service and support, as well as continuing education. We are dedicated to helping dentists and specialists use the latest in cone beam technology.

The 3D Experts

Recognized as innovators in cone beam technology, i-CAT provides unparalleled, highly specialized service and support that can only come through a dedicated 3D focus.

As part of the i-CAT community, you have exclusive access to unprecedented educational programs, the vast knowledge of a global community of clinicians, and a world of support with our far-reaching, geographically convenient technical response team.

- Telephone Support
- Remote Assistance
- Responsive Field Service and Product Specialist Teams across the US and Canada
- Access to 3D Education and Training



AWARD-WINNING PERFORMANCE

Praised by Owners, Esteemed Educational
Organizations, and the Dental Community-at-Large





Voted **Best Cone Beam CT Scanner**







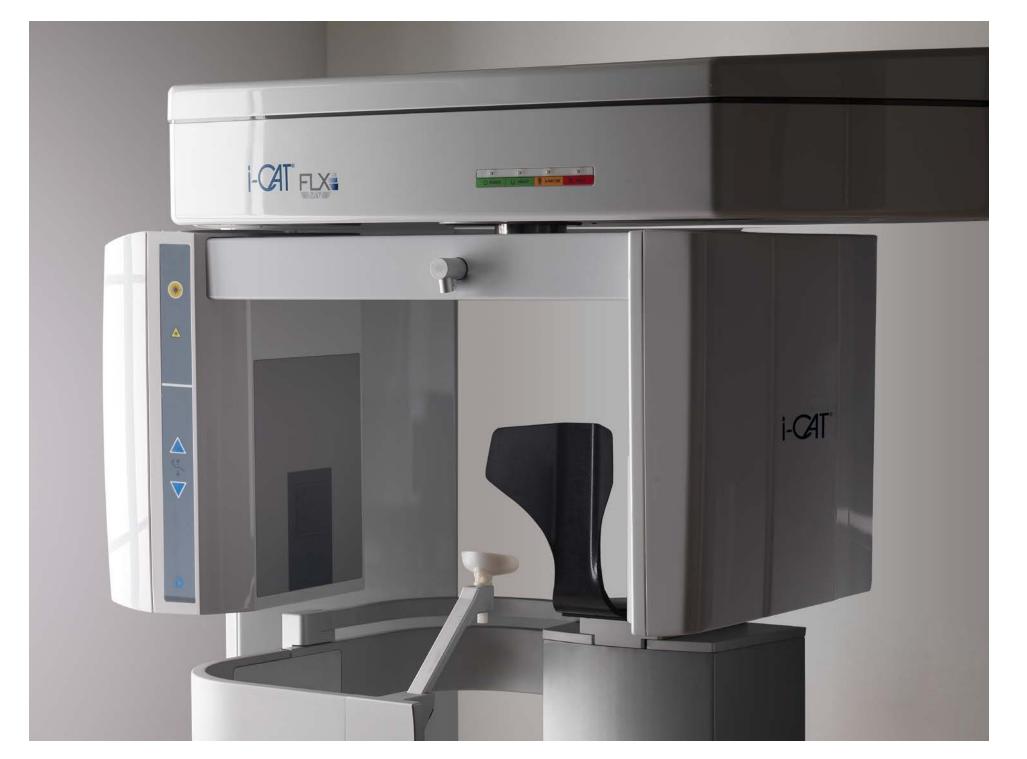




i-CAT FLX was recognized as a winner in the very competitive imaging category this year, by addressing an issue of great importance to the panel...lowering radiation dosage to the patient.* The i-CAT FLX combines this with the other important aspect of 3D imaging — image quality. Practices dedicated to implants, restorations, oral and maxillofacial surgery, orthodontics, TMD, and airway disorders can all benefit from the flexible 3D planning and treatment tools that are integral to this comprehensive system.

- Lou Shuman, DMD, CAGS

Best of Class Founder and President of Pride Institute



THE i-CAT PHILOSOPHY

Combining highly precise, cone beam 3D technology with flexible planning and treatment tools, i-CAT offers a full suite of solutions to meet your practice's needs. You can care for your patients with greater confidence and control than ever before.





Clinical control and optimized patient care

With i-CAT, there's no need to compromise between image quality and patient safety. High-resolution, volumetric images provide complete 3D views for more thorough analysis of bone structure and tooth orientation, while flexible scanning options allow you to control the dose and follow ALARA (As Low As Reasonably Achievable) radiation protocols.



Powerful, comprehensive treatment tools

More than just a scanner, i-CAT includes powerful, yet easy-to-use, planning and treatment tools to help you take charge of your practice. Designed to streamline your workflow, i-CAT helps you move from scanning to consultation and treatment planning in less than one minute.



More advanced procedures with greater predictability

Start planning immediately and offer an effective course of treatment — from implants to surgical guides and restorations. i-CAT's open software architecture seamlessly integrates with orthodontic systems, CAD/CAM programs, imaging software, and practice management programs, expanding your practice's capabilities.

SCAN

Flexibility and Ease

- Full dentition 3D imaging at a dose comparable to a 2D Panoramic X-ray with **QuickScan+***
- Visual iQuity™ advanced image technology delivers
 i-CAT's clearest 3D and 2D images, demonstrating our
 commitment to offer the optimal balance between
 image quality and patient safety
- Easy-to-follow, guided workflow right at your fingertips with the SmartScan STUDIO™ touchscreen interface for greater speed and efficiency
- Capture traditional 2D panoramic images with the i-PAN[™] feature when 3D diagnostic information is not required
- Ergonomic Stability System (ESS) allows for easy, seated patient positioning, designed to minimize patient movement and avoid unnecessary retakes and radiation

i-CAT FLX products offer the **most flexible imaging control** of any cone beam 3D unit, allowing you to focus on each patient's unique features while **minimizing the radiation dose.***



SmartScan STUDIO

i-CAT's SmartScan STUDIO provides an easy, customizable solution for a guided, controlled workflow in your practice. With its easy-to-use, touchscreen interface and integrated acquisition system, SmartScan STUDIO offers step-by-step guidance, allowing you to select the appropriate scan for your patient with an ALARA (As Low As Reasonably Achievable) radiation dose.



 ϵ

PLAN

Tx $STUDIO^{\text{TM}}$ is an integral part of the fast i-CAT workflow and provides the power of multiple software systems combined into **one simple-to-use solution**.





Optimized Treatment Planning Software

Designed exclusively for i-CAT with Anatomage, Tx STUDIO leverages the best in anatomy imaging software and cone beam 3D technology. It is the only software designed for a cone beam 3D unit that enhances the efficiency of your practice by providing immediate access to integrated treatment tools for implant planning, surgical guides, and other applications.

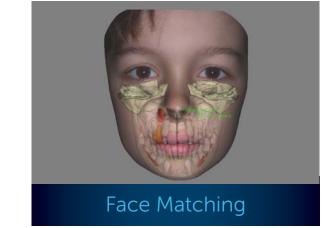
Tx STUDIO has specific system requirements that need to be met prior to a successful installation.

Open Software Architecture

i-CAT's open software architecture seamlessly integrates with orthodontic programs, CAD/CAM systems, imaging software, and practice management programs, expanding your practice's capabilities.



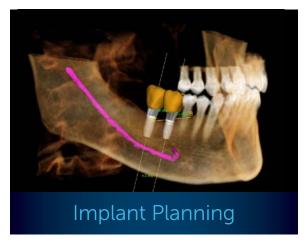
Expand implant-planning capabilities with a fast scan workflow and unique open software architecture, which make i-CAT universally compatible with all leading surgical guide providers. Perform treatments with more confidence and efficiency — and fewer complications — with surgical guides ordered directly through Tx STUDIO.



Bring your 3D scan data to life by superimposing a digital photograph of your patient on their scan data with face-MATCH™.



Automatically compute the total airway volume, and view segmented areas of constriction to aid in the treatment of sleep apnea and other airway disorders.



Measure bone density and plan implants, abutments, and restorations simultaneously within a 3D volume or a panoramic view. Avoid potential surgical complications by checking for root entanglement prior to extractions with automatic nerve canal tracing.



Simply export STL files from Tx STUDIO software so your lab can create the final restoration based on your exact design. These files also work with a wide variety of CAD/CAM and 3D printing systems.



Utilize i-PAN traditional 2D panoramic imaging with i-CAT's two-in-one functionality, a convenient benefit for dental offices that use both 2D and 3D imaging.

TREAT

a plan for an range of adva

Make Your Plan a Treatment Reality

Treatment plans are done chairside or in consultation rooms in minutes with i-CAT, increasing patient engagement and interest in their treatment. When developing treatment plans, you can take full advantage of CAD/CAM technology, which expands your opportunities to meet the increasing demand for high-tech treatment. With the information provided by powerful 3D scans, you can confidently perform procedures knowing that your plan is in the best interests of your patients. Prior planning helps eliminate unseen surprises, allowing you to complete complex procedures quickly and with greater accuracy.

i-CAT is particularly beneficial for cases involving:

Orthodontics
Implants
Oral & Maxillofacial Surgery
Periodontics
Endodontics
TMJ
Airway Analysis

With the assistance of i-CAT, a clinician can identify a plan for an **effective course of treatment** for a wide range of advanced procedures.





Patient Engagement & Communication

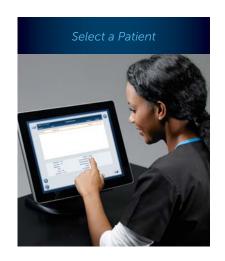
Designed by clinicians for clinicians, our fully integrated software allows you to develop — and communicate — your treatment plan with confidence. Full 3D visualization engages patients with compelling views and helps them understand their treatment options, leading to greater case acceptance.



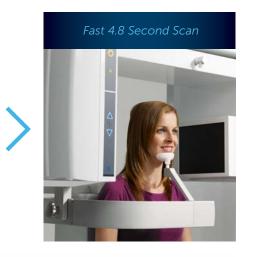
FASTEST 3D WORKFLOW

Deliver and Inc

Deliver Treatment Plans in Minutes and Increase Office Efficiency













i-CAT understands that time is a valuable commodity in the dental office. Our comprehensive 3D imaging solution provides the fastest scan to plan workflow. A full, ceph-height 3D scan can be obtained in as little as 4.8 seconds, and even complex treatment plans can be completed in a few minutes with the Tx STUDIO software — keeping the office moving quickly while offering excellent care.

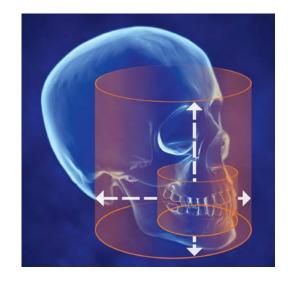
FLEXIBILITY AND CONTROL

Clinically Driven Image and Exposure Control

Offering the most flexible imaging control of any cone beam 3D unit, i-CAT allows you to target the desired field-of-view on each patient while minimizing the radiation dose.

i-CAT has unique, widely adjustable 3D fields-of-view through collimation. Customizable diameters and heights allow you to select views from single-arch, to both arches, the condyles, and up to a full cephalometric height, for the most flexibility in treating each patient according to their individual needs. Not only does i-CAT provide a myriad of 3D scan sizes, it also offers flexibility in modality with i-PAN, the traditional 2D panoramic option.

The new SmartScan STUDIO touchscreen workflow allows you to choose from preset scan options of the field-of-view, dose, and resolution. Customize your own presets — or Quickpicks™— for simple and fast scanning.





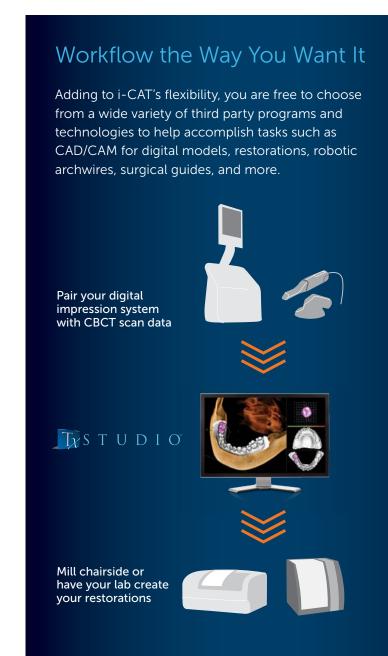












ORTHODONTICS



Optimize Treatment Plans with Greater Accuracy and Better Clinical Tools

Understand exact tooth position and the relationship of anatomy so you can map the most effective — and least invasive — treatment plan for the best possible alignment. Correct root angulations and find supernumerary teeth and their exact locations to enhance communication with oral surgeons — and prevent exploratory surgery. Additional treatment modules, including 3D cephalometric analysis, virtual studies, and impressionless models, make planning even more powerful.

Capture all initial records in a single, low-dose scan in just 4.8 seconds. Use Tx STUDIO 3D views to analyze teeth, roots, TMJ, airway, and sinuses without magnification or distortion. Enhance practice efficiency by capturing a complete workup in less than 10 seconds.

The i-CAT FLX is an invaluable tool to diagnose, educate, and treat patients. The i-CAT FLX has consistently helped me to achieve over a 90% acceptance rate. It's just amazing!

- Martin F. Van Vliet, DMD

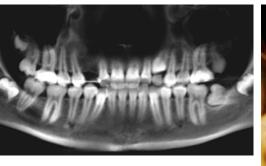
Diplomate, American Board of Orthodontics

Van Vliet Orthodontics Highland, NY and Ramsey, NJ

Extended field-of-view



Reveal hidden impactions not seen on a pan





Supernumerary with a full crown



A 3D scan allows orthodontists to view the greater craniofacial complex, with airways, bone, sinus and TMJ health as a cohesive part of an integrated system. During treatment planning, I look at airways and sinuses first, then TMJs, then skeletal relationships, then alveolar housing, and lastly, the teeth. Although this has always been considered vital anatomy, 3D diagnosis and treatment planning give me a more precise view to catch the clues to unusual dental conditions.

- Juan-Carlos Quintero, DDS, MS

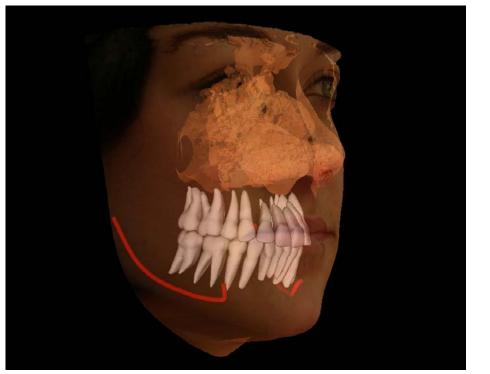
Quintero Orthodontics South Miami, FL

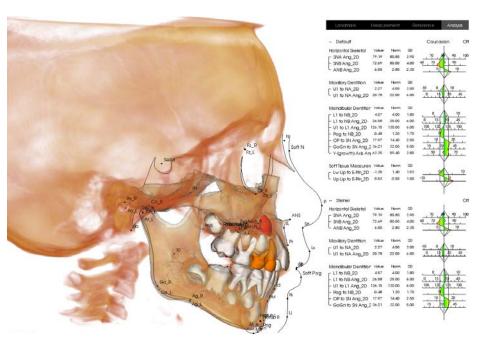
There are a few pivotal decisions you will make during your orthodontic career, and buying an i-CAT will be one of them. Your confidence in treatment planning and case presentation will make you the expert in your area on anything 3D. There are a few new areas that I find I am starting to use my i-CAT for in treating the patient as a whole. Airway, sleep apnea, and TMJ are just a few of the areas. The amount of information at my fingertips is remarkable. The cool part of being a memeber of the i-CAT family is innovation, education, and support. i-CAT is continually trying to push the envelope at lower radiation doses and better quality images. They host 3D forumsto help educate and support their customers.

- Stuart Frost, DDS, MS

Frost Orthodontics Mesa, AZ

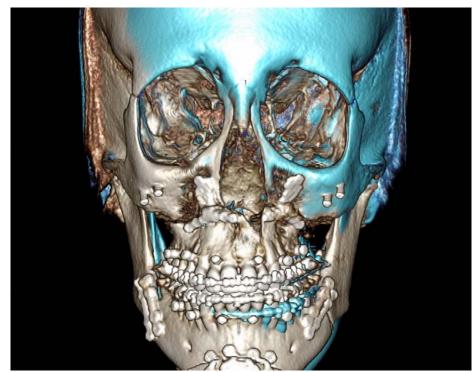
View bone, teeth, and facial profile with face-MATCH

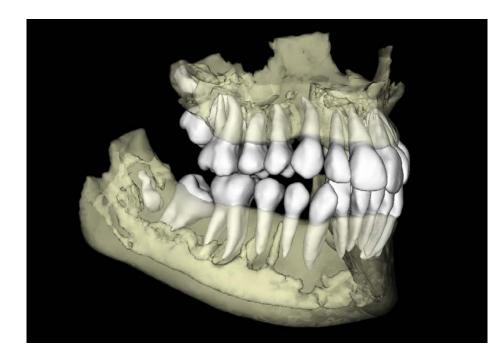




Fully featured tools for ceph analysis

Extended view available when more anatomical information is needed





The i-CAT FLX helps me provide the best for my patients through its "game-changing" technology which allows me to take one 4.8-second low-dose scan with the QuickScan+ setting and obtain the 3D image for less radiation than with either a digital pan or ceph. There was once a time where 3D X-rays were considered by many in the profession to be too much radiation for the amount of information generated. But that time is no longer, thanks to i-CAT's R&D team who are driven to continue to make a difference on this front.

- Jeffrey T. Kozlowski, DDS

Kozlowski Orthodontics New London and East Lyme, CT

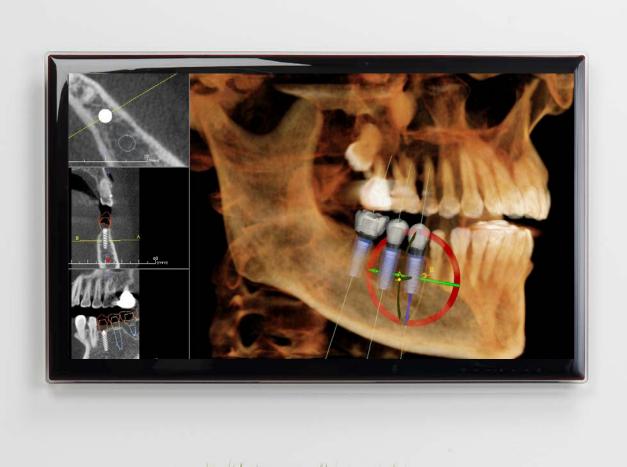
There aren't many things in orthodontics that actually make you a better orthodontist. My i-CAT FLX is one of the few exceptions. The i-CAT FLX allows me to visualize with stunning clarity my patient's current anatomic reality at radiation doses lower than what I was delivering with my 2D pan/ceph records. I'm now making clinical decisions that allow me to navigate anatomy in three dimensions. I used to make decisions based upon a two dimensional representation of complex bone and root relationships. I now shudder at the very thought of that. Am I a better orthodontist now? Without a doubt.

- John Graham, DDS, MS

Sugarhouse Orthodontics Salt Lake City, UT

Segment out bone and/or teeth with AnatoModel

IMPLANTS



Place and Restore with Accuracy and Confidence

Treat patients with greater surgical predictability and confident outcomes using i-CAT's 3D treatment planning tools.

Use i-CAT's high resolution, volumetric images, and complete 3D views for a more thorough analysis of bone structure and tooth orientation.

Collect precise data, and map an entire course of treatment for surgical placement of the implant and abutment, all the way to final restoration.

Order surgical guides from a full implant library and have it delivered to you in under a week.



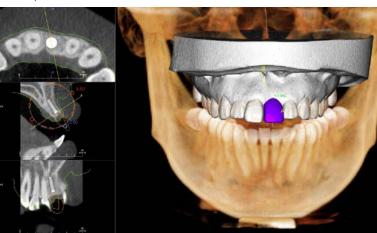
I've been involved with CT scans in implant dentistry for over 25 years, and I've found that the new i-CAT FLX cone beam unit has now changed the way I practice implant dentistry. The i-CAT scanners produce unparalleled images which are so crucial in the treatment planning of dental implants. Additionally, the flexibility of these units allows the clinician to collimate and select various fields-of-view, thus drastically reducing the radiation exposure to the patient.

- Randolph Resnik, DMD, MDS

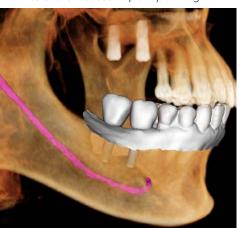
Director, Misch International Implant Institute

Resnik Dental Implants Pittsburgh, PA

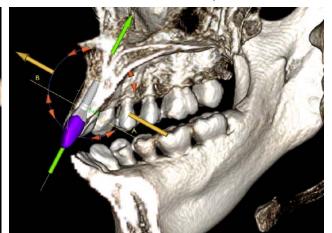
Plan implant, abutment, and final restoration in one software



Restoration-based implant planning



Visualize implants within the bone



ORAL & MAXILLOFACIAL SURGERY



Map Surgical Treatment Plans

Tx STUDIO treatment planning software can assist in identifying deformities, such as cysts, tumors, lesions, and changes of the jaw, to avoid potential surgical complications.

Determine precise position of impacted teeth within the alveolar bone, as well as their proximity to adjacent teeth and vital structures, such as the nerve canal, sinus walls, and cortical borders.

With the i-CAT FLX in particular, I can capture quick, lower-dose exposures as needed. The system also has a QuickScan+ setting that allows for a full-dentition 3D scan at a comparable dose to a 2D panoramic image*. I can now take a follow-up scan for cases where reevaluation is critical and gain much more information than a pan offers. This allows for better monitoring — with significantly less radiation — during the healing process, and for early intervention, when indicated, for optimal long-term prognosis.

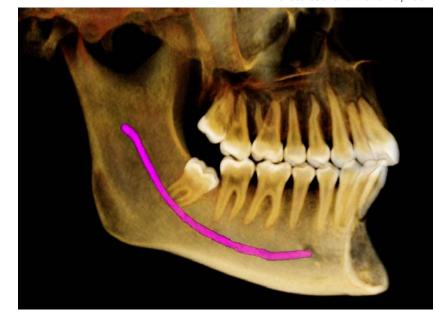
- Daniel C. Cullum, DDS

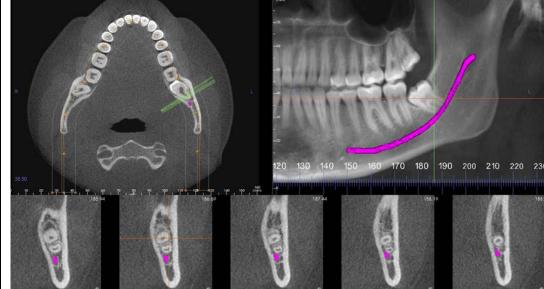
Diplomate, American Board of Oral and Maxillofacial Surgery

Implants Northwest

Coeur d'Alene, ID

Cross-sectional views help identify impacted tooth position, relation to other teeth and roots, as well as pathology prior to 3rd molar extractions





PERIODONTICS



Analyze Bone Structure

From implant placement to surgical options for the management of bone loss, i-CAT provides periodontists with the wide range of services expected from the specialty. Capture 3D volumetric images for a more thorough analysis of bone structure as well as sinus and nerve location.

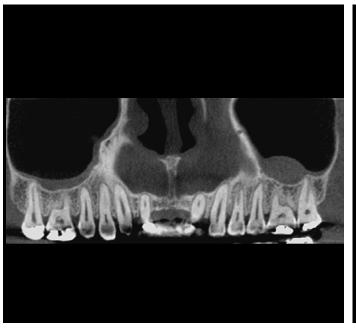
i-CAT imaging systems provide scan options and a full complement of tools for implant placement. Use scan data to help plan the course of treatment of bony defects prior to the actual osseous surgery appointment. With Tx STUDIO software's highly visual 3D presentation, share your diagnosis and plan with the patient for greater understanding leading to better post-treatment compliance.

Having an i-CAT increases safety for my patients and confidence for me. The information provided by the CBCT scan allows the practitioner to recognize anatomical conditions that would be otherwise undetectable on 2D radiographs. I can now do virtual implant placement, and I don't have to guess on nerve location. All of the details that 3D offers ensure long-lasting positive treatment outcomes.

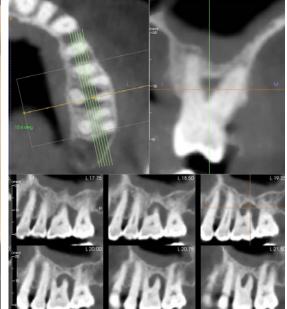
- John Russo, DMD, MHS

Diplomate of the International Congress of Oral Implantologists Sarasota, FL

Comprehensive scan data and software tools for implant planning



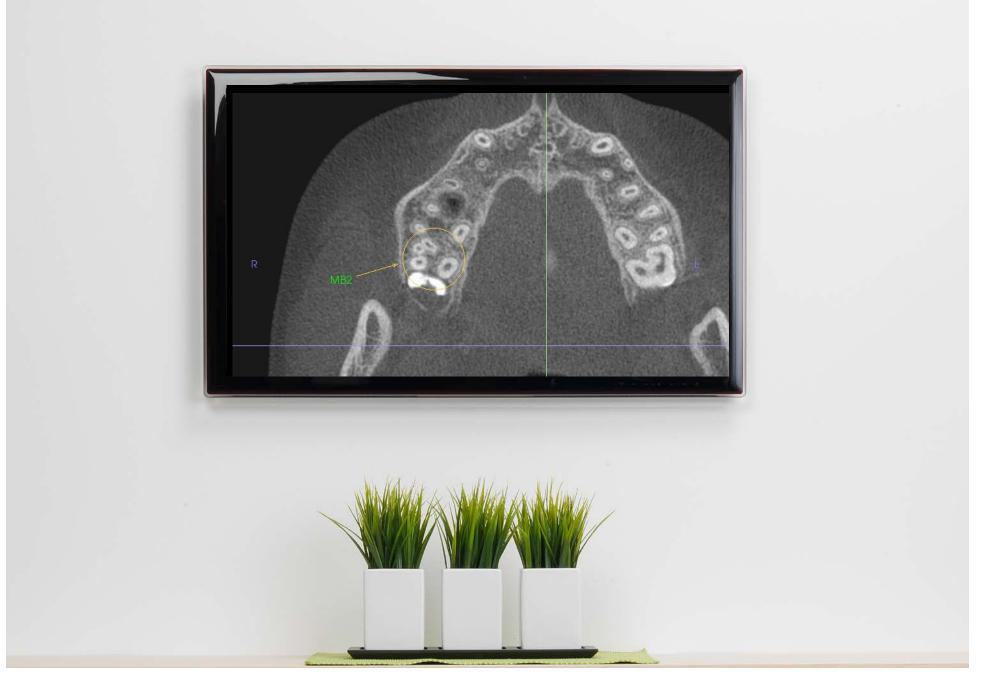




The complete picture of bony defects

21

ENDODONTICS



Survey Roots in Three Dimensions

When more concentrated studies are necessary, high resolution scans — up to .125 voxels — lend more detail for the identification of lesions. Scans can also be collimated to cover the area of interest.

Within Tx STUDIO software, scans can be explored axially and buccolingually for a complete survey of fractures, accessory canals, and endo-perio involvement.

Review hard to visualize accessory canals with high resolution axial views



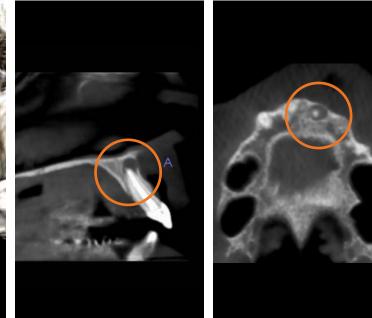
Discover root fractures using cross-sectional views



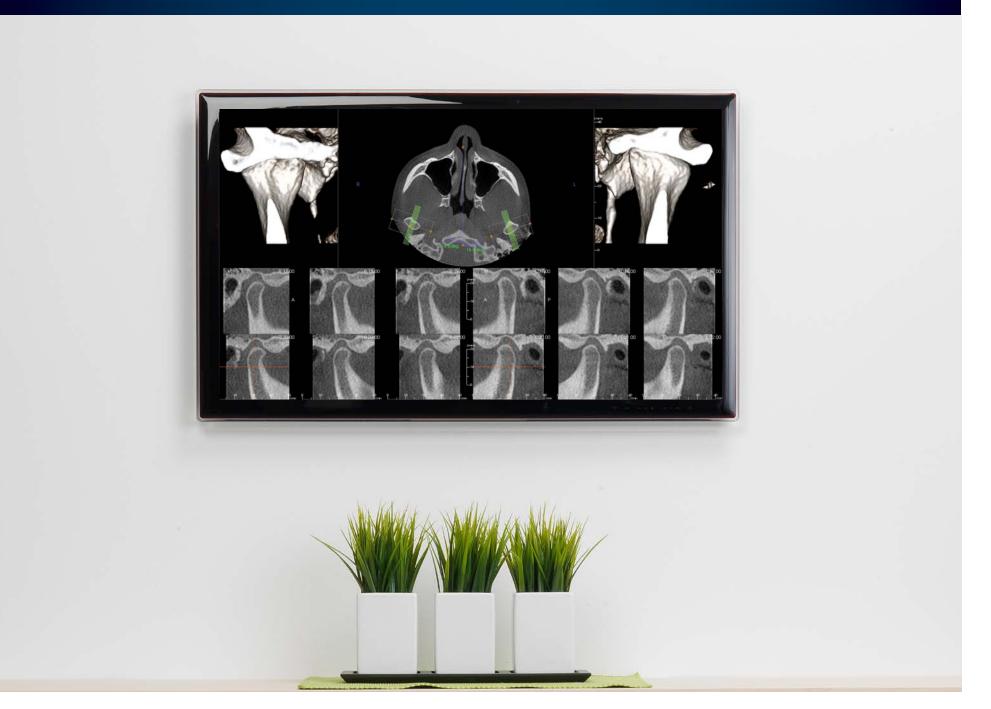
3D view of destruction from endodontic lesions



Use multiple viewing capabilities to discover lesions and pathology



TMJ



Detect TMD and Assess Fractures

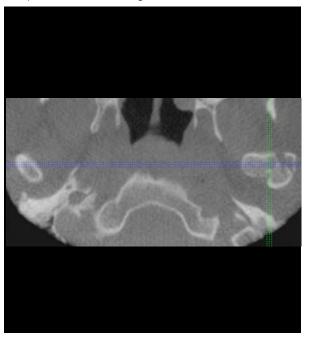
Detect TMJ anomalies for the ability to design effective patient treatment. Using the TMJ visualization tools, zero in on the temporomandibular joints to identify wear, defects, and fractures. These tools also act as virtual study models to streamline and expedite treatment, and allow you to design splints with the optional Medical Design Studio module.

The i-CAT CBCT allows me to acquire and interpret remarkable views of the TMJs quickly, efficiently, and with low radiation dosages for the patient. The patient does not have to leave the office, and we can provide the patient with nearly instant feedback.

- Steven A. Guttenberg, DMD, MD

Diplomate, American Board of Oral and Maxillofacial Surgery Washington, DC

Multiple views of TMJ offer greater visualization





3D rendering of scan yield details of trauma



AIRWAY ANALYSIS



Evaluate Airway Obstructions to Help Identify Sleep Apnea

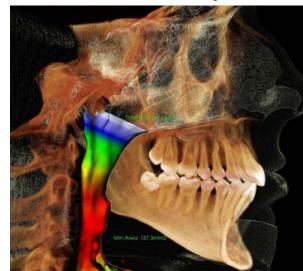
For patients with suspect airway or sinus tissues, you can use Tx STUDIO software to review the 3D data and to reveal restricted airways and determine appropriate treatments with precise anatomical views and measurements. Assess airway volume at-a-glance using color-coded constriction values. Quickly trace airways on-screen to perform automatic calculations and measurements of paranasal sinuses to evaluate treatment options.

In my business, I have to figure out why people hurt and don't breathe. Since orthopedic disorders of the TMJs and facial pain are often the result of breathing disorders, volumetric evaluation of the nasal, nasopharyngeal, velopharynx and hypo pharynx are absolute. My i-CAT reliably gives me this vital information with the lowest radiation dose possible. In fact, the i-CAT FLX does it so much easier with a fraction of the radiation.

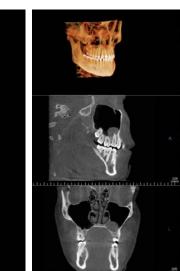
- Steven R. Olmos, DDS

Founder, TMJ & Sleep Therapy Centre International, LLC La Mesa, CA

Soft and hard tissue shown in 3D rendering



Isolated visual of airway



Efficiently survey full anatomy





i-CAT FLX

i-CAT Provides Balance Between Image Quality and Dose

i-CAT imaging solutions put the power of precision in your hands, simply and conveniently. Dental clinicians now have direct access to advanced 3D treatment tools for implants and restorations, oral and maxillofacial surgery, TMJ and sinuses, and orthodontics. Consistently impressive image quality is delivered through proprietary tools that create high definition, low dose scans quickly and easily every time.

i-CAT quality in a model that fits your practice

with QuickScan+*

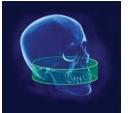
i-CAT FLX MV

Field-of-Views

i-CAT FLX



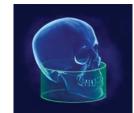
FOV 8 cm x 8 cm FOV 16 cm x 4 cm



FOV 16 cm x 6 cm upper jaw TMJ



FOV 16 cm x 6 cm



FOV 16 cm x 8 cm



FOV 16 cm x 10 cm



FOV 16 cm x 11 cm



FOV 16 cm x 13 cm



FOV 23 cm x 17 cm

The i-CAT FLX gives me an excellent quality image and allows me to tailor each scan to the individual patients and their diagnostic needs. This ultimately allows me to provide the highest quality of care to my patients.

- Lauren Brownfield, DDS, MS

30

Texas Dental Specialists Houston, TX

i-CAT FLX MV



FOV 8.5 cm x 4 cm



FOV 8.5 cm x 8.5 cm



FOV 15.5 cm x 6 cm

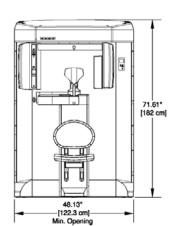


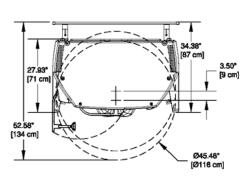
FOV 15.5 cm x 8.5 cm

Image and dose control help put patient health first. i-CAT offers multiple low dose scan settings, so you have the flexibility to easily capture a range of image sizes to fit your needs.



i-	CAT FLX SPECIFICATIONS
Sensor Type	Amorphous Silicon Flat Panel Sensor with Csl Scintillator
Grayscale Resolution	16-bit
Voxel Size	.4 mm, .3 mm, .25 mm, .2 mm, .125 mm
Collimation	Electronically controlled fully adjustable collimation
Scan Time	4.8, 8.9, 14.7, 17.8 or 26.9 seconds
Exposure Type	Pulsed
Field-of-View	Standard Scan: 4, 6, 8, 10, 11, 13 cm (h) x 16 cm (d) 8 cm (h) x 8 cm (d) Extended Field-of-View (Cephalometric): 17 cm (h) x 23 cm (d)
Reconstruction Shape	Cyclinder
Typical Reconstruction Time	Less than 30 seconds
Viewing and Treatment Software	Included
DICOM Compatible	Yes
Unit Size	48" (w) x 69.5" (h) x 36.37" (d)
Patient Position	Seated
Wheelchair Accessible	Yes

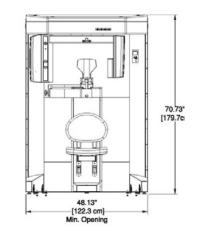




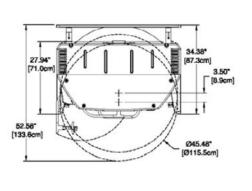
*Utilizing the i-CAT FLX QuickScan+ exposure protocol. Use of lower dosage imaging may only be suitable for certain diagnostic tasks. Image quality is proportional to dose. i-CAT FLX offers a variety of exposure protocols allowing clinicians to adjust dosage to specific diagnostic needs.



i-C	AT FLX MV SPECIFICATIONS
Sensor Type	Amorphous Silicon Flat Panel Sensor with Csl Scintillator
Grayscale Resolution	16-bit
Voxel Size	.4 mm, .3 mm, .25 mm, .2 mm, .125 mm
Collimation	Electronically controlled fully adjustable collimation
Scan Time	4.8, 8.9, 12.6 or 23 seconds
Exposure Type	Pulsed
Field-of-View	Standard Scan: 4, 6, 8.5 cm (h) x 8.5 cm (d)
	Extended Field-of-View: 4, 6, 8.5 cm (h) x 15.5 cm (d)
Reconstruction Shape	Cyclinder
Typical Reconstruction Time	Less than 30 seconds
Viewing and Treatment Software	Included
DICOM Compatible	Yes
Unit Size	48" (w) x 69.5" (h) x 36.37" (d)
Patient Position	Seated



Wheelchair Accessible



'X-ray images acquired using i-CAT can be analyzed within Tx STUDIO for treatment planning. NOTE: All clinical images shown are created from scans utilizing i-CAT technology.

i-CAT UNIVERSITY

The i-CAT University is a unique entity of its kind dedicated to the ongoing education of dentists and specialists to enhance planning and treatment through the latest in cone beam technology. Our network of educators includes highly regarded leaders in specialty fields who have extensive i-CAT experience. This industry-leading educational program is the first to collaborate with Board-Certified Oral and Maxillofacial Radiologists to design and deliver a curriculum on cone beam imaging by dentists for dentists.

Commitment to continuing education for customers is reflected in the extensive programs offered pre- and post-installation, including online tutorials, webinars, regional classes, custom on-site training, Users' Meetings, and the International Congress on 3D Dental Imaging.

Learn more about our live and virtual education opportunities at i-CAT.com/events



INTERNATIONAL CONGRESS ON 3D DENTAL IMAGING









WEBINARS

Attend our free webinars featuring your colleagues who are already using 3D technology! Watch as they share experiences of integrating 3D imaging into their practices and show specific clinical applications and effective treatment planning for today's dental offices.

i-CAT.com/webinars



SOFTWARE TRAINING

Access our Tx STUDIO training videos to help guide you and your staff through this powerful 3D imaging software.

Discover the basic and advanced capabilities of the software to accurately diagnose and treatment plan in 3D.

i-CAT.com/training











Get exclusive updates on i-CAT happenings!









DOWNLOAD THE i-CAT IPAD APP

Browse by specialty, browse by product, explore clinicals and more...