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INTRAORAL DIAGNOSTICS

Imaging Quality and Safety in Every Workflow



# The ALARA Principal

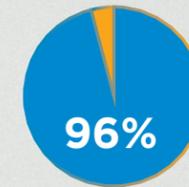
As Low As Reasonably Achievable is the backbone of radiation protection practice.<sup>1</sup>

## IMAGE QUALITY + RADIATION EXPOSURE MATTER

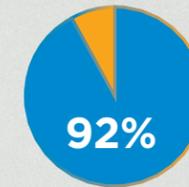
Every inaccurate image requires a retake and the more images retaken, the more the clinician and the patient are exposed to ionizing radiation. Your goal is to capture diagnostically acceptable intraoral images in a single, well-executed take, maximizing patient comfort and safety while minimizing chair time.

The most common reasons for intraoral radiography retakes are due to **improper positioning, angulation, and media placement.**

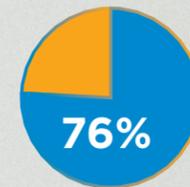
DIGITAL SENSOR



PSP



FILM



PERCENT OF RETAKES DUE TO IMPROPER POSITIONING, ANGULATION, AND MEDIA PLACEMENT

## Intraoral diagnostic confidence

Diagnostic confidence makes a difference to the well-being of patients and the health of the dental practice. With the right tools and training, you can enhance the positioning and quality of diagnostic intraoral images while minimizing the risk.

Our complete line of Rinn intraoral imaging accessories from Dentsply Sirona provides industry-leading solutions for all of our intraoral radiography needs. From radiation protection, to media holders and aiming devices, our products are designed to simplify your workflow, so you can focus on getting the image you need the first time.



1. Acharya S, Pai K, Acharya S. Repeat film analysis and its implications for quality assurance in dental radiology. An institutional case study. Contemporary Clinical Dentistry. 2015;6(3):392-395.

# The Intraoral Imaging Workflow.

The Rinn intraoral imaging accessories from Dentsply Sirona, simplify the diagnostic workflow, helping clinicians work more efficiently while keeping patients comfortable and safe. They provide accurate positioning and control to consistently deliver diagnostically acceptable images in either digital or traditional media.



## PATIENT SAFETY



## MEDIA + AIMING DEVICES



## TECHNOLOGY EQUIPMENT



Rinn® Universal Digital Sensor Covers



Xios Sensors



Rinn® XCP-DS Fit® Universal Sensor Holders



Dentsply Sirona Sidexis 4 Imaging Software



Soothe-Guard Air® Lead-Free Radiography Aprons



Rinn® XCP-ORA® One Ring & Arm Positioning System



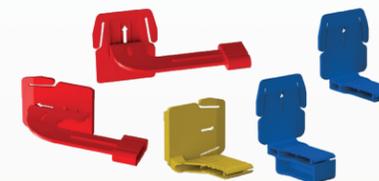
Dentsply Sirona Heliodent Intraoral X-Ray Unit



Rinn® XCP-PSP Fit® Envelope with Secure Band



Dentsply Sirona Phosphor Plates



Rinn® XCP-PSP Fit® Phosphor Plate Holders



Dentsply Sirona Xios Scan

Protect your patients and staff with Rinn products designed to prevent cross-contamination and minimize radiation exposure.

As the inventor of the color-coded positioning system, we offer products that work together with different choices of media to create a total solution.

Whether digital sensors or phosphor plates are used, our imaging technology equipment simplifies the workflow.

For additional intraoral holder options see page 15.

# Digital Sensor

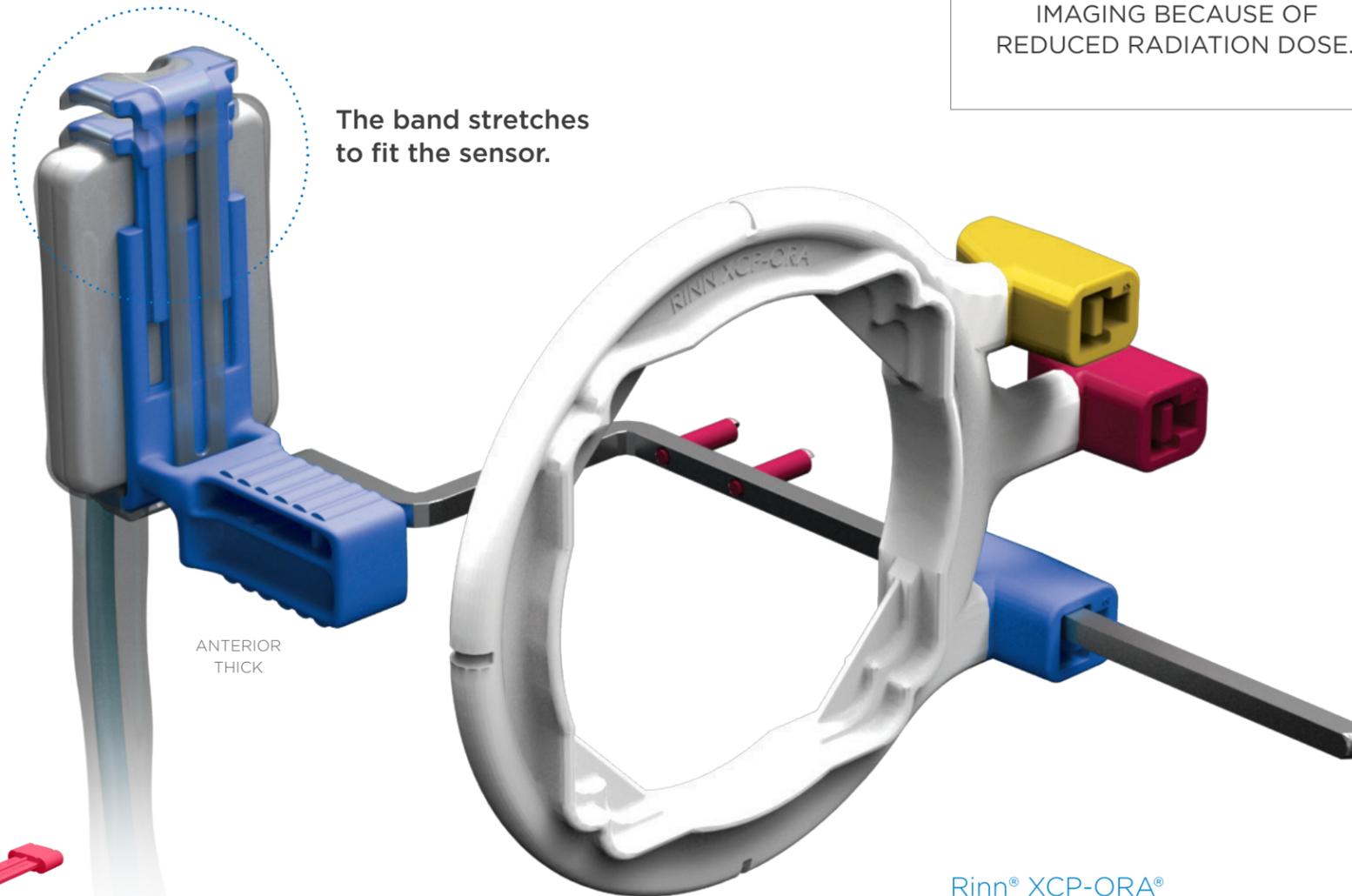
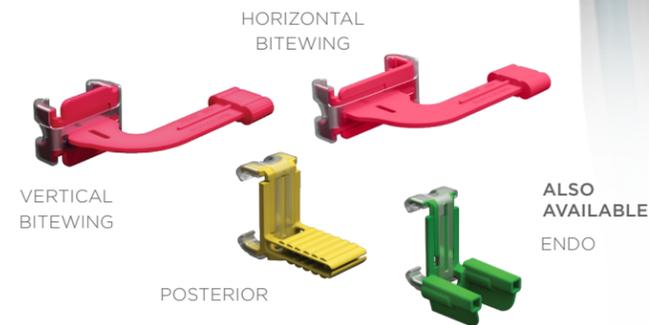
## AUTOCLAVABLE SOLUTIONS

### Simplify positioning with fewer parts to assemble.

Our color-coded sensor holders and arm and ring make it easy to choose the right components for all your intraoral imaging.

#### Rinn® XCP-DS Fit® Universal Sensor Holders

- Fast, accurate intraoral radiographs, no matter the sensor size
- Universal design fits sensor sizes 0, 1, 1.5 and 2
- Fast, easy loading of sensors
- Less clutter — each holder fits multiple sizes
- Autoclavable for low cost per use



The band stretches to fit the sensor.

85% OF DOCTORS CHOSE DIGITAL INTRAORAL IMAGING BECAUSE OF REDUCED RADIATION DOSE.<sup>1</sup>

#### Rinn® XCP-ORA® One Ring & Arm Positioning System

- Unique arm and ring design accurately positions Rinn XCP-DS Fit with fewer parts
- Patented, color-coded design simplifies setup for anterior, posterior and bitewing images
- Faster and easier radiographic accuracy
- Autoclavable
- Ideal for use with collimators



#### PATIENT SAFETY



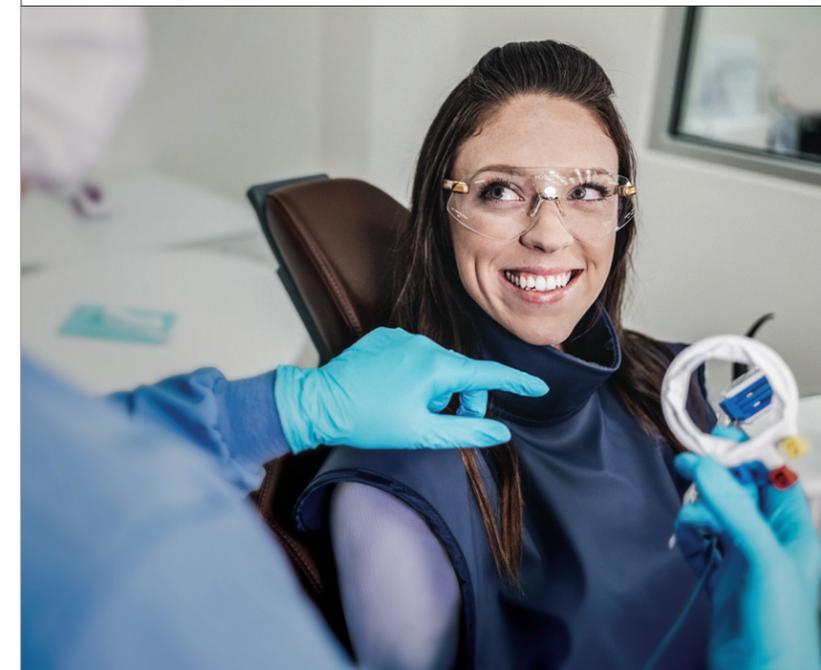
Protect your patients. See Rinn aprons and sensor covers on pages 16-17.



#### TECHNOLOGY EQUIPMENT



Deliver a confident diagnosis and clear communications. See Dentsply Sirona media, X-ray units and intraoral imaging software on pages 12-13.



# Digital Sensor

## SINGLE-USE SOLUTION

Although autoclavable products reduce inventory requirements, many dental offices prefer disposable, single-use solutions for convenience and speed. Promote patient safety while simplifying your entire workflow with disposable holders designed to optimize efficiency, accuracy and comfort.



Autoclavable arm and ring

Simplify positioning with color coding and fewer parts to assemble.

### Rinn® Uni-GripAR® Arm and Ring

- Color coded design for quick assembly for any position
- Lighter weight for patient comfort\*
- Autoclavable
- Works with any Uni-Grip holder

**84%**  
OF USERS FOUND  
RINN® UNI-GRIP 360  
TO BE FASTER  
THAN INDIVIDUAL HOLDERS.\*\*

Also available in a Phosphor Plate solution.

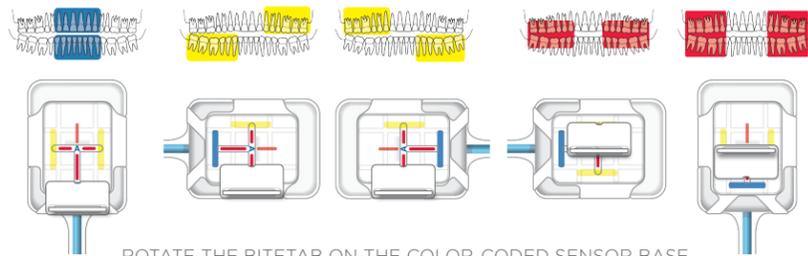


### Rinn® Uni-Grip® Universal Disposable Radiography Holder

- For all Film and Phosphor Plates
- Rotating tab for posteriors, anteriors and bitewings
- Single-use
- Adjustable positioning range

### Rinn® Uni-Grip® 360 Universal Sensor Holder

- Easy rotating tab for posteriors, anteriors and bitewings
- One holder is all you need for a full mouth series
- Adjustable positioning range — to easily capture the appropriate anatomy
- Fits any 1, 1.5, 2 size digital sensor



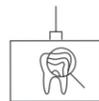
ROTATE THE BITETAB ON THE COLOR-CODED SENSOR BASE TO ACHIEVE THE RIGHT POSITION FOR ANY INDICATION.



## PATIENT SAFETY



Protect your patients. See Rinn aprons and sensor covers on pages 16-17.



## TECHNOLOGY EQUIPMENT



Deliver a confident diagnosis and clear communications. See Dentsply Sirona media, X-ray units and intraoral imaging software on pages 12-13.



# Phosphor Plate

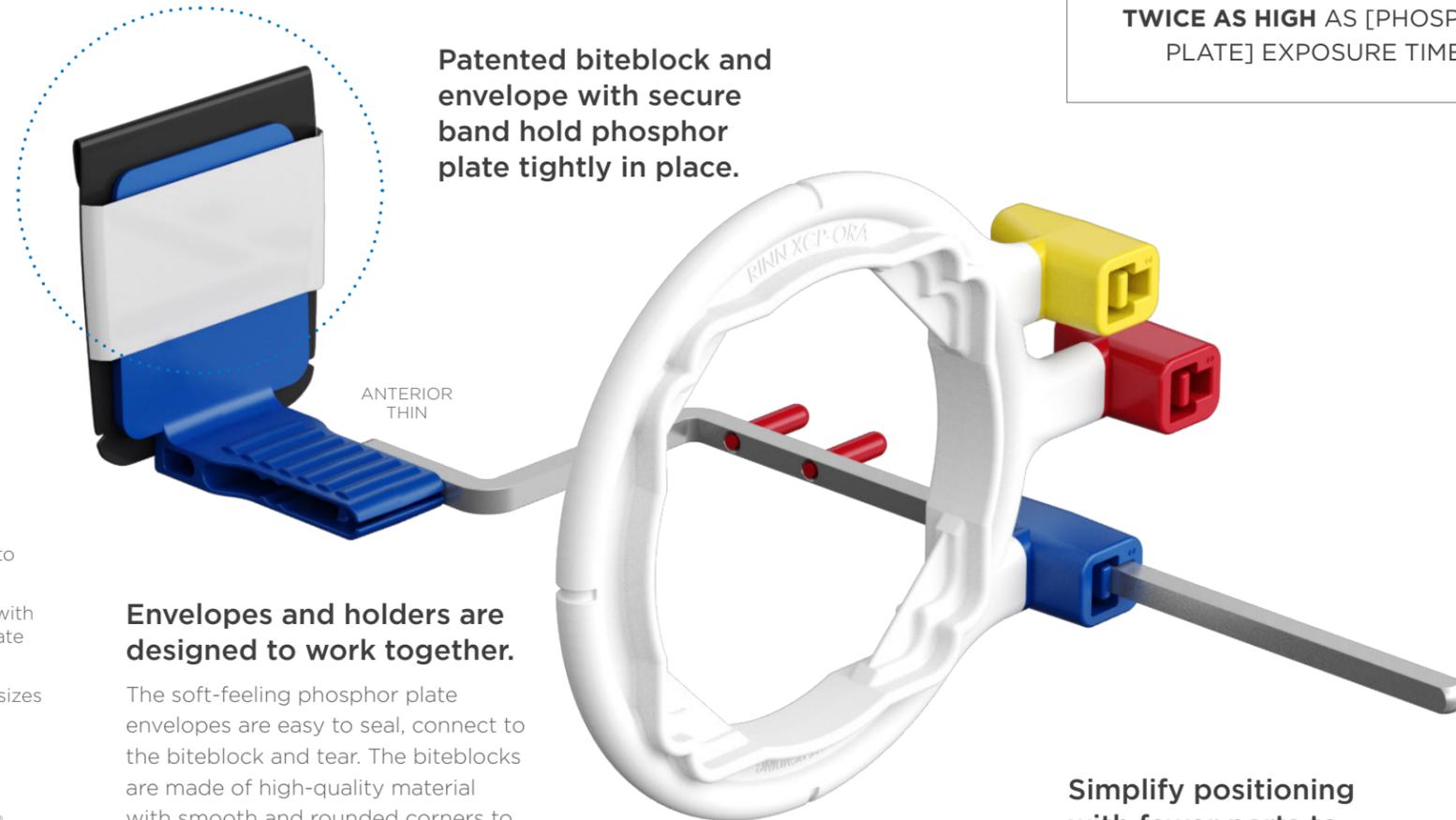
## AUTOCLAVABLE SOLUTIONS

Rinn® XCP-PSP Fit® Phosphor Plate Holder System – minimizing risks of errors and retakes to capture accurate images and increase patient comfort.

### Rinn® XCP-PSP Fit® Phosphor Plate Holder System

Less shifting and movement – Designed to keep phosphor plates in place.

- Secure band envelopes work together with the biteblocks to keep the phosphor plate in place.
- Fits all major phosphor plate brands in sizes 0, 1, 2 and 3
- Protects phosphor plates
- Simplifies with color-coding assembly
- Decreases clutter when used with Rinn® XCP-ORA® One Ring & Arm Positioning System



Patented biteblock and envelope with secure band hold phosphor plate tightly in place.

### Envelopes and holders are designed to work together.

The soft-feeling phosphor plate envelopes are easy to seal, connect to the biteblock and tear. The biteblocks are made of high-quality material with smooth and rounded corners to increase your patients' comfort.

“The envelopes are so different, so soft. I have never seen this before and think this will increase patient comfort.”

User evaluations of the Rinn® XCP-PSP Fit™ system

EXPOSURE TIME FOR FILM IS **TWICE AS HIGH** AS [PHOSPHOR PLATE] EXPOSURE TIME!<sup>1</sup>

### Simplify positioning with fewer parts to assemble.

#### Rinn® XCP-ORA® One Ring & Arm Positioning System

- Unique arm and ring design accurately positions Rinn XCP-PSP Fit with fewer parts
- Patented, color-coded design simplifies setup for anterior, posterior and bitewing images
- Faster and easier radiographic accuracy
- Autoclavable
- Ideal for use with collimators



### PATIENT SAFETY



Protect your patients. See Rinn aprons and envelopes on pages 16-17.



### TECHNOLOGY EQUIPMENT



Deliver a confident diagnosis and clear communications. See Dentsply Sirona media, X-ray units, scanners and intraoral imaging software on pages 12-13.



# Technology for Digital Sensors and Phosphor Plates.

Dentsply Sirona solutions help capture diagnostically acceptable, high-quality images with improved efficiency. Expect to get it right the first time with Dentsply Sirona.



**Capture instant, high-quality images while minimizing radiation exposure.**

## 3 Sensors Sizes

- Market-leading image quality: 28 line pairs/mm\*
- Accommodate a full range of patients, including children.
- Image optimization with sharpening, brightness and contrast sliders.
- Modular system according to your needs - WIFI and USB connection
- Filtering enhancements for clinical-specific views

**Take high-resolution digital images using a traditional workflow.**

## Dentsply Sirona Phosphor Plates

- Reusable thousands of times and durable enough for constant daily use
- Like film, but with less radiation exposure and no need for darkroom chemicals
- Super-thin design with rounded corners for comfort and ease of use
- Available in standard intraoral sizes 0, 1, 2 and 3

**Expect superior image quality, reliability and ease of use.**

## Dentsply Sirona Heliodent Plus Intraoral X-ray Unit

- Integrates seamlessly to deliver faster, better, safer intraoral diagnostics
- DC power and 0.4mm focal spot for imaging accuracy with minimal radiation dose
- Versatile operation with intuitive controls, media detector, and choice of remote, timer and manual release
- A wide choice of configurations to fit your operatory and practice

**Get into digital imaging without changing your tried-and-true workflow.**

## Dentsply Sirona Xios Scan Phosphor Plate Scanner

- Smooth start in the digital world of x-rays
- Simple workflow
- High image quality
- Plate sizes 0, 1, 2, 3
- Automatic plate detection
- Compact and high-quality processing
- Get all the information you need for confident diagnosis and planning

## Sidexis® 4 Imaging Software

- Award-winning interface displays all patient information in a unified environment
- Xios sensor integration utilizes dynamic enhancement and exposure advisor features
- Xios Scan integration makes phosphor plate images immediately available for viewing and editing
- Digital Lightbox shows 2D, 3D and intraoral images for easy cross-comparison
- Timeline function displays your patient's entire history at a glance



# Specialty Cases.

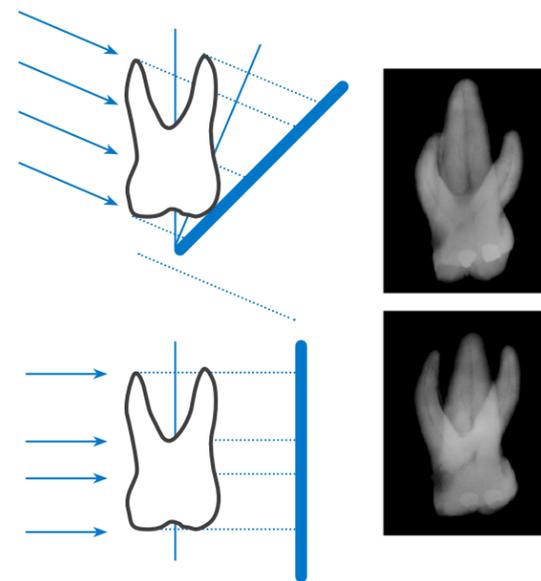
In some cases, maintaining patient comfort while capturing an accurate image requires an alternative approach. Anatomical challenges that benefit from special positioning techniques include:

- Shallow palates which may prevent the patient from occluding
- Narrow arches where an alternative media holder may be needed
- Patients with a sensitive gag reflex

**35% OF PRACTITIONERS ADMIT TO MANUALLY HOLDING MEDIA DURING EXPOSURE AT LEAST A FEW TIMES PER WEEK. 88% SAY THE PRACTICE CONCERNS THEM.!**

## Tips: Bisecting Technique Steps

- Place the biteblock on the lingual aspect of the tooth
- Place the biteblock as close to the tooth being imaged
- The biteblock and long axis of the tooth form an angle
- Visualize an imaginary bisector line down the middle of the angle created by the tooth and biteblock
- Position the central ray perpendicular to the imaginary line



# Specialty Products.

We offer holders to support all media types and sizes, for every case, setting clinicians up for success no matter what hurdles they may face.

## FOR DIGITAL SENSORS:

**Easily capture anterior and posterior bisecting angle radiographs with one holder.**

### Rinn® Snap-A-Ray® DS Universal Sensor Holder

- Universal design fits all digital sensors
- Autoclavable for low cost per use
- Optional 2-in-1 arm and ring kit for alignment
- Rigid design for less movement provides accurate positioning



RINN® SNAP-A-RAY® DS ENDO FOR ENDODONTIC INTRAORAL IMAGING HAS A CUTOUT BITE SURFACE TO LEAVE ROOM FOR YOUR WORK.



## FOR PHOSPHOR PLATES AND FILM:

### Rinn® Snap-A-Ray® Xtra Film & Phosphor Plate Holder

- Cushioned media grips hold film and phosphor plates securely without scratching the media
- Cushioned bite area designed to enhance patient comfort
- Media can be angled for hard-to-reach areas
- Easy to load and position media
- Autoclavable



# Patient Safety and Comfort.

Keeping your patients safe from infection risks and unnecessary radiation exposure is a key clinical responsibility. Keeping them comfortable is key to ensuring their satisfaction and bringing them back to your practice for future care. Our solutions are designed to deliver both the best possible images and the best possible patient care.



**Tips:** Radiation as low as reasonably achievable: RINN solutions and the ALARA principle

The need for clear, diagnostically acceptable images should never supplant every clinician's first principle: do no harm. That means keeping radiation exposure for your staff and patients as low as reasonably achievable: the ALARA principle.

Best ALARA practices include:

- Utilizing rectangular collimation in conjunction with holders and aiming devices limits the central ray.
- Shielding patients with protective aprons and thyroid collars
- Minimizing retake images

**Choose the lead-free way to reduce radiation exposure.**

## Soothe-Guard Air® Lead-Free Radiography Aprons

- Innovative lead-free alloy lining
- Up to 15% lighter than lead-lined aprons
- Smooth material that won't crack or fade when wiped down as directed
- Color selections to complement your office décor



**Prevent damage while keeping phosphor plates securely in place.**

## Rinn® XCP-PSP Fit® Envelope with Secure Band

- Extra smooth material for patient comfort
- Easy sealing and tight fit of the phosphor plate
- Secure Band holds phosphor plates in place and avoids shifting
- Notches to help tearing
- Fits all major phosphor plate brands in sizes 0, 1, 2 and 3



**Promote infection control and patient comfort.**

## Rinn® Universal Digital Sensor Covers

- Universal size bags fit both size 1 and 2 sensors
- Rounded edges designed to improve patient comfort



# Tips and Education for Better Intraoral Imaging.

The goal of dental radiology is to obtain high-quality images while minimizing radiation exposure and keeping every patient as comfortable as possible. Consider how these tips may assist in challenging situations.

## PARALLELING VS BISECTING

- Know what to choose based on anatomical challenges
- The paralleling technique using aiming devices is recommended for fewer errors and retakes
- The bisecting angle technique using media holders are recommended for patients with anatomical challenges, and during endodontic and implant procedures

## SENSOR SELECTION

- Use the largest sensor possible to obtain maximum information
- Have a protocol in place for when to switch to a smaller sensor

## GENERAL SENSOR POSITIONING

- Place in the center of the mouth for the paralleling technique
- Use cotton rolls, especially in vertical positions and edentulous areas

## SENSOR POSITIONING FOR BITEWINGS

- Place the sensor parallel to the teeth
- Use the indicator slot to align with interproximal spaces on bitewings
- Align the central beam through the contact areas
- Adjust vertical angulation on bitewings to capture adequate bone levels
- With premolar bitewings, to capture the distal of the canine, adjust the media approximately 15 degrees distomesial



## Expanding Knowledge

We're committed to improving preventive care through ongoing clinical education and support.

Dentsply Sirona Academy educates hundreds of thousands of dental professionals every year across a wide range of clinical, technical and practice excellence programs — through live events, webinar series and 360 courses. We also offer a variety of multimedia resources on a broad range of subjects — including how to attain a more efficient diagnostic workflow, ensure patient comfort, and achieve optimum positioning for faster, safer, better intraoral imaging.

Our online learning portal provides the knowledge, skills and certification dental professionals need to stay up to date.

Find CE Courses, Technical Courses and Practice Management Resources at [dentsplysirona.com/academy](https://dentsplysirona.com/academy)



**Watch our clinical videos on radiography best practices, including equipment selection, sensor positioning, patient comfort and more.**

Watch here: [dentsplysirona.com/education](https://dentsplysirona.com/education)

## CE courses

Using a Positioning System for Paralleling and Bisecting Angle Techniques

Visit [dentsplysirona.com/education/preventive](https://dentsplysirona.com/education/preventive) for a list of current courses.