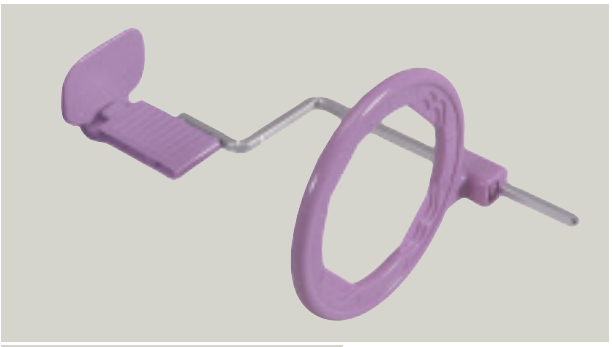
DENTAL IMAGING CATALOG



Flow X-ray®

X-ray Protective Aprons Dental X-ray Illuminators Darkroom Accessories Intraoral Dental X-ray Film Dental X-ray Film Positioners Extraoral Dental X-ray Film Intraoral Dental X-ray Machines Dental X-ray Mounts X-ray Protective Aprons Dental X-ray Illuminators Dental X-ray Film Positioners Intraoral Dental X-ray Machines Chemistry Specialty Film Positioners Intraoral Dental X-ray Film Darkroom Accessories Dental X-ray Mounts X-ray Protective Aprons Dental X-ray Film Positioners Developing Chemistry Specialty Film Positioners Extraoral Dental X-ray Film Dental X-ray Machines Developing Chemistry Specialty Film Positioners Dental X-ray Illuminators Darkroom Accessories Intraoral Dental X-ray Film Dental X-ray Mounts Dental X-ray Illuminators Darkroom Accessories

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Dental X-Ray Film Descriptive Terms

Packaging
Flow intraoral films are available in either vinyl or paper packets. Our vinyl packets are extremely soft and flexible as well as easy to open. The paper packets have rounded corners and "memory" to stay in the shape it is contoured.

Speeds
Flow X-Ray dental films are available in "D" speed (similar to Kodak Ultra-Speed*), or "F" speed (similar to Kodak Insight*) which requires roughly half the exposure time of D speed.

Specifications
Each Flow intraoral film packet contains film sandwiched between black paper and lead foil. The film is embossed with a dot and the packets are color coded to indicate speed type and to ensure the correct side of the film is placed to the tube. Flow film is available in 5 intraoral and 2 extraoral sizes (see below), and can be processed manually or automatically.

*Ultra-Speed and Insight are registered trademarks of the Eastman Kodak Co.

Size 2
1-1/4" x 1-5/8"
31 x 41 mm
DV-58 DX-58
DV-57 DX-57
EV-58
EV-57

Size 0
7/8" x 1-3/8"
22 x 35 mm
DV-54 DX-54
FV-54 FV-53
DV-53

Size 1
15/16" x 1-9/16"
24 x 40 mm
DX-56 EX-11P
DX-55 EX-12P

Size 3
1-1/16" x 2-1/8"
27 x 54 mm
DX-42

Size 4
3" x 2--1/4"
76 x 57 mm
Occlusal

Flow Dental X-ray Films

D Speed Vinyl Packet Intraoral X-ray Film ***Pages 2 and 3***

F Speed Vinyl Packet Intraoral X-ray Film ***Pages 4 and 5***

D Speed Paper Packet Intraoral X-ray Film, Panoramic And Duplicating Film
Pages 6 and 7

"Silver D®" D Speed Dental X-ray Film

Flow Silver D is a high contrast film especially designed for today's most discerning Dentist. This higher contrast delivers greater resolution and detail.

In independent test results, Silver D delivered as much as 21% greater contrast and over 40% better resolution than other films.

Now that's an image!

What's more our unique formulation stands up to oxidized chemistry better than other films. That means you'll get more films out of each gallon of developer used.

That's what's on the inside.

Outside our vinyl packets are thinner, softer, and more flexible. Your patients will love our softer edges, your assistants will enjoy the added flexibility and easy-opening tabs!

Silver D has the same exposure settings as other D speed films and can be processed manually or automatically. For best results with your automatic processing, we recommend you use new Flow Brand "BETTER"™ Chemistry.

For more information on BETTER Chemistry see page 23

DV-58 *D Speed Size 2 Adult Film*

DV-58 D speed film (Ultra-speed*) Intraoral film is packaged in soft, supple vinyl packets for greater patient comfort, perfect for a broad range of x-ray exams, including anterior, posterior and bite-wing exams.
DV-58 is available in three packages sizes: Econo Pak (600 pcs), Value Pak (150 pcs) and Fresh Pak (100 pcs)

Econo Pak®
600 DV-58 films per box. (4 sleeves of 150 pieces each).
Stock Number 18204

Value Pak®
150 DV-58 films per box.
Stock Number 18200

Fresh Pak®
100 DV-58 films per box.
Stock Number 18600

THE DENTAL ADVISOR ++++½

D Speed Size 2 Adult Film 2 Film Packets

DV-57

All the great image qualities of Silver D film in a double film packet. One exposure = Two films!

Perfect for referral situations or when a film duplicate is required for insurance processing. Twin D has the same exposure settings as regular Silver D, and can be processed manually or automatically.

Twin D Value Pak®
150 DV-57 double film packets per box.
Stock Number 18201

Twin D Fresh Pak®
100 DV-57 double film packets per box.
Stock Number 18601

D Speed Size 0 Child Film

DV-54 DV-53 *2 Film Packets*

All the great image qualities of Flow's Silver D in a size 0, child film size. Pedo Pak is perfect for kids ages 3 thru 8.

Pedo Pak is available in single film packets and double film packets, (Twin D Pedo Pak) Flow D speed child film has 30% less exposure than adult Silver D.
Pedo Paks can be processed automatically or manually.

Pedo Pak®
100 DV-54 films per box.
Stock Number 18235

Twin D Pedo Pak®
100 DV-53 2 film packets/ box.
Stock Number 18236

D Speed Size 4 Occlusal Film

Occlusal film is the largest size intraoral film available, perfect for examining the arch of the maxilla and the mandible. The patient bites down on the film with the x-ray positioned either over the nose (for maxillary) or under the chin (for mandibular). The resulting x-ray captures the entire arch. This type of exam is often used to diagnose soft tissue of the cheek and lips, cartilage of the nose, and the nasal septum. Occlusal film is 57 mm x 76 mm and packaged in soft flexible vinyl packets.

25 film per box. **Stock Number 18425.**

Flow X-ray Silver D Film (D Speed) Exposure Time In Seconds

	Region	65kV 10mA	65kV 15mA	70kV 7mA	70kV 10mA	70kV15mA	80kV 10mA	80KV 15MA
Maxillary	Anterior	0.25	0.17	0.22	0.15	0.10	0.12	0.07
	Premolar	0.32	0.22	0.28	0.20	0.13	0.13	0.10
	Molar	0.37	0.25	0.32	0.23	0.15	0.17	0.12
	Bitewing	0.25	0.17	0.22	0.15	0.10	0.12	0.07
Mandibular	Anterior	0.20	0.13	0.18	0.12	0.08	0.08	0.07
	Premolar	0.22	0.13	0.18	0.13	0.08	0.10	0.07
	Molar	0.25	0.17	0.22	0.15	0.10	0.12	0.07
	Bitewing	0.25	0.17	0.22	0.15	0.10	0.12	0.07

These exposure recommendations are for the use of a short cone (20cm-8"). Exposure time must be multiplied by 4 if a long cone (40cm-16") is used. For larger patients, increase time by approximately 25%. For children, small or endentulous patients, decrease time by approximately 30%. Always make sure developer chemistry is fresh.

Flow Xpress® F Speed Dental X-ray Films

As fast as any intraoral film on the market, Flow F speed films combine reduced radiation exposure with superb contrast and image resolution. Available in size 2 and 0, single and double film packets, Flow F speed takes conventional dental radiography to a new level in terms of dose minimization.

Inside: A fast film that doesn't sacrifice image quality for reduced radiation exposure! Outside, softer, thinner, more flexible vinyl packets your patients will love! Flow F speed films require approximately half the exposure time of D speed (see the exposure table at the bottom of page 5) and can be processed manually or automatically. Flow F speed has the same exposure settings as other F speed films making it easy to switch to Flow Xpress.

FV-58 *F Speed Size 2 Adult Film*

Flow's FV-58 is an F speed, size 2, intraoral dental film in soft vinyl packets. FV-58 requires approximately half the exposure time of DV-58.
FV-58 can be used for anterior, posterior and bite-wing x-ray exams in adults, and posterior and bite-wing exams in children 9 years or older and can be processed manually or automatically.

FV-58

Econo Pak®
600 FV-58 films per box. (4 sleeves of 150 pieces each).
Stock Number 18215

Value Pak®
150 EV-58 films per box.
Stock Number 18310

Fresh Pak®
100 EV-58 films per box.
Stock Number 18620

F Speed Size 2 Adult 2 Film 2 Film Packets

FV-57

All the great image qualities of our super fast F speed Adult dental x-ray film in a double film packet.

One exposure = Two films!

Perfect for referral situations or when a duplicate x-ray film is required for insurance processing.

Flow Twin F uses half the exposure settings as our Our Silver D, and can be processed manually or automatically.

Twin F is available in our Value Pak (150 pcs) or our Fresh Pak (100 pcs).

F Speed Size 0 Child Film 2 Film Packets

FV-54 FV-53 *2 Film Packets*

All the great image qualities of Flow's Xpress F in size 0, child film size. Pedo Pak is perfect for kids ages 3 thru 8.

Pedo Pak is available in single film packets and double film packet, (Twin F Pedo Pak) Flow F Speed child film has 30% less exposure than adult F speed.

Pedo Paks can be processed automatically or manually.

Twin F Value Pak®
150 FV-57 double film packets per box.
Stock Number 18410

Twin F Fresh Pak®
100 FV-57 double film packets per box.
Stock Number 18621

Pedo Pak®
100 FV-54 films per box.
Stock Number 18635

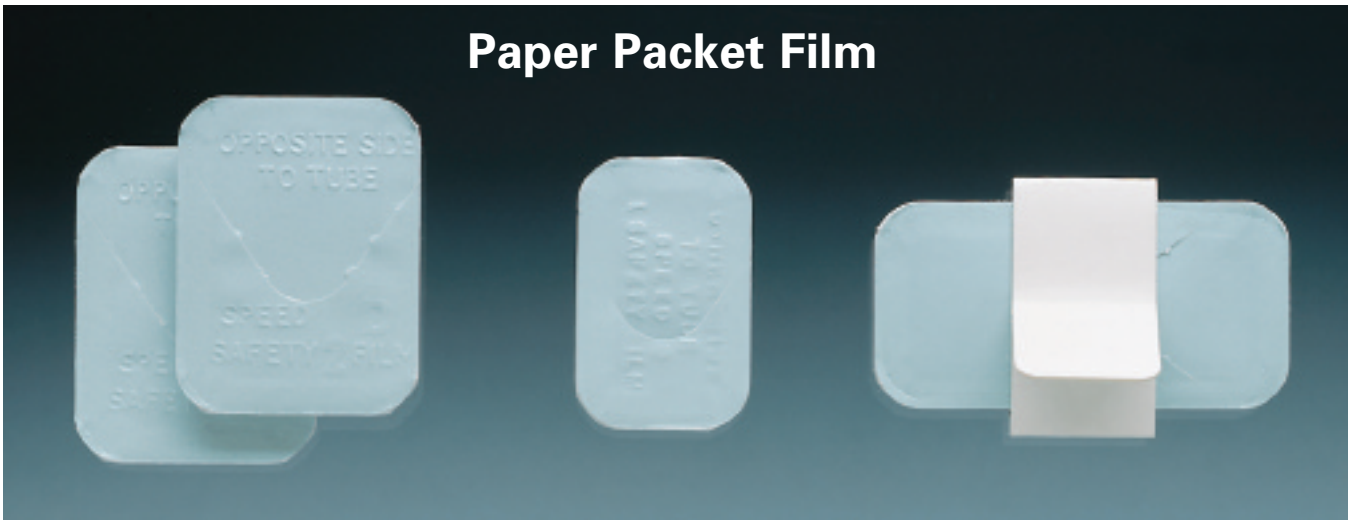
Twin F Pedo Pak®
100 FV-53 2 film packets/box.
Stock Number 18636

Flow X-ray Xpress Film (F Speed) Exposure Time In Seconds

Region		60kV 7mA	60kV 8mA	65kV 7.5mA	65kV 8mA	70kV 7mA	70kV 8mA
Maxillary	Anterior	0.36	0.24	0.21	0.19	0.18	0.16
	Premolar	0.36	0.24	0.21	0.19	0.18	0.16
	Molar	0.46	0.29	0.27	0.24	0.23	0.20
	Bitewing	0.36	0.24	0.21	0.19	0.18	0.16
Mandibular	Anterior	0.27	0.18	0.16	0.14	0.14	0.12
	Premolar	0.36	0.24	0.21	0.19	0.18	0.16
	Molar	0.36	0.24	0.21	0.19	0.18	0.16
	Bitewing	0.36	0.24	0.21	0.19	0.18	0.16

These exposure recommendations are for the use of a short cone (20cm-8"). Exposure time must be multiplied by 4 if a long cone (40cm-16") is used. For larger patients, increase time by approximately 25%. For children, small or endentulous patients, decrease time by approximately 30%. Always make sure developer chemistry is fresh.

Paper Packet Film



DX-58 Paper Pak® is a D speed size 2 intraoral dental film in paper packets. DX-58 has the same exposure settings and developing techniques (manual or automatic) as all other D speed films. Packaged **150 films per box.**
Stock Number 18001

DX-57 Paper Pak® is the same film as DX-58 but in **double film packets.** DX-57 uses standard exposure setting and developing techniques.
150 double film packets.
Stock No. 18101.

DX-54 Paper Pak® is a D speed size 0 child film in paper packets. DX-54 is for anterior, posterior and bite-wing exams in children from 3 to 8. DX-54 has the same exposure settings as any other D speed film and can be manually or automatically processed.
100 films per box. Stock No. 18035

DX-42 Bite Chex® Bite-Wing Size 3 D speed film is used to x-ray the coronal portion of contacting teeth. **100 films per box with tabs for film positioning.**
DX-42 Stock Number 18060

Paper Pak® Size 1 Anterior Films

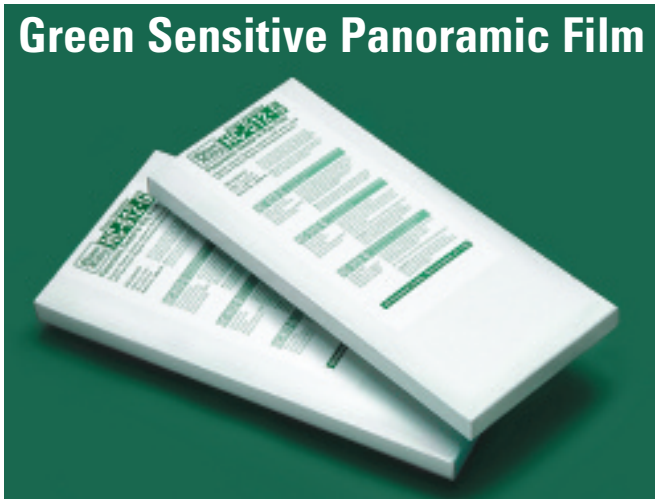
Flow Anteriors are available in both D&F speeds and in single or double film packets. Anterior Films come in soft laminated paper packets for added patient comfort. **Anterior films are packaged 100 films per box, available as listed below.**

Name	Description	Stock No.
Paper-Pak DX-56	D speed Single Film Packets	18002
Paper-Pak DX-55	D speed Double Film Packets	18102
Paper-Pak FX-11P	F speed Single Film Packets	18103
Paper-Pak FX-12P	F speed Double Film Packets	18104

The Easy-Open Flow Paper Film Packet

Grasp the film packet with the thumb and index finger of your left hand. With your right hand bend the packet back until the tab pops open. Tear the tab completely back from the edge of the film and its protective layers, and slip out the film.

Green Sensitive Panoramic Film



Full Speed, high contrast, orthochromatic (green sensitive) dental x-ray film available in 5 x 12" and 6 x 12" sheets.

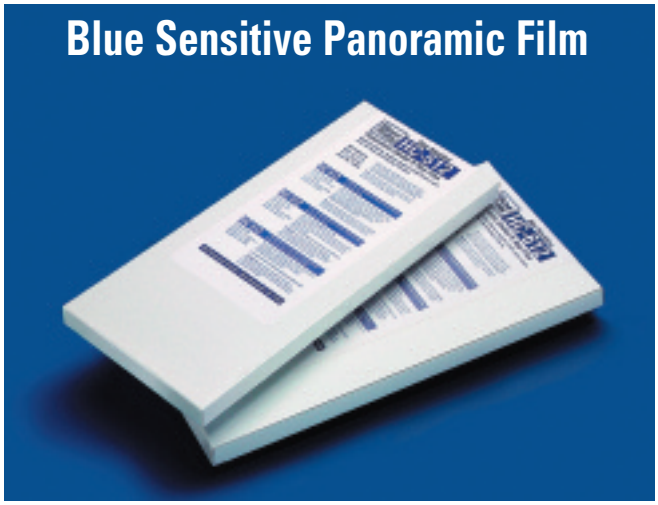
Flow's Green Team® is ideally suited for all panoramic and TMJ imaging. The spectral sensitivity of Green Team is perfectly matched for use with all brands of green emitting, rare earth, intensifying screens. Green Team has wide surface area silver halide crystals to yield enhanced image sharpness.

Green Team 512®
5 x 12" Green Sensitive
Pano Film, 50 per box
Stock No. 18095-G

Green Team 612®
6 x 12" Green Sensitive
Pano Film, 50 per box
Stock No. 18096-G

Film	Intensifying Screen Type	Speed
Flow Green Team	Regular Green Emitting	400

Blue Sensitive Panoramic Film



Full Speed, blue sensitive dental x-ray film available in 5 x 12" and 6 x 12" sheets.

Flow's True Blue® Panoramic film yields excellent detail with high contrast. The blue spectral sensitivity of True Blue is perfectly matched for use with all brands of calcium tungstate (blue emitting) intensifying screens.

True Blue 512®
5 x 12" Blue Sensitive
Pano Film, 50 per box
Stock No. 18095

True Blue 612®
6 x 12" Blue Sensitive
Pano Film, 50 per box
Stock No. 18096

Film	Intensifying Screen Type	Speed
Flow True Blue	Regular Blue Emitting	400

Automatic Processing

Film Type	Developer
All Flow Pano Film	83°F

Manual Processing

Film Type	Developer	Rinse	Fix	Wash
Green Team®	72°F 7 min. 80°F 4 min.	60-85°F 30 Sec.	60-85° F2-4 min.	60-85°F 5 min.
True Blue®	68°F 5 min.	60-85°F 30 Sec.	60-85° F2-4 min.	60-85°F 5 min.

Safelight Requirements
The use of a GBX (or equivalent) Safelight Filter is recommended. The filter should have a 7 1/2-watt bulb and positioned three feet from processor feed tray.

Processing
Flow Panoramic Films are compatible with all manual and automatic processing systems. Your current processing techniques do not require any change.

Storage
Unopened, unexposed film should be stored at temperatures at or below 70°F in a dry location, preferably between 30% and 50% relative humidity.

Handling
Film should be handled to avoid creasing, buckling and physical pressure. Handle films carefully along the edges. Avoid using hand lotions prior to handling films.

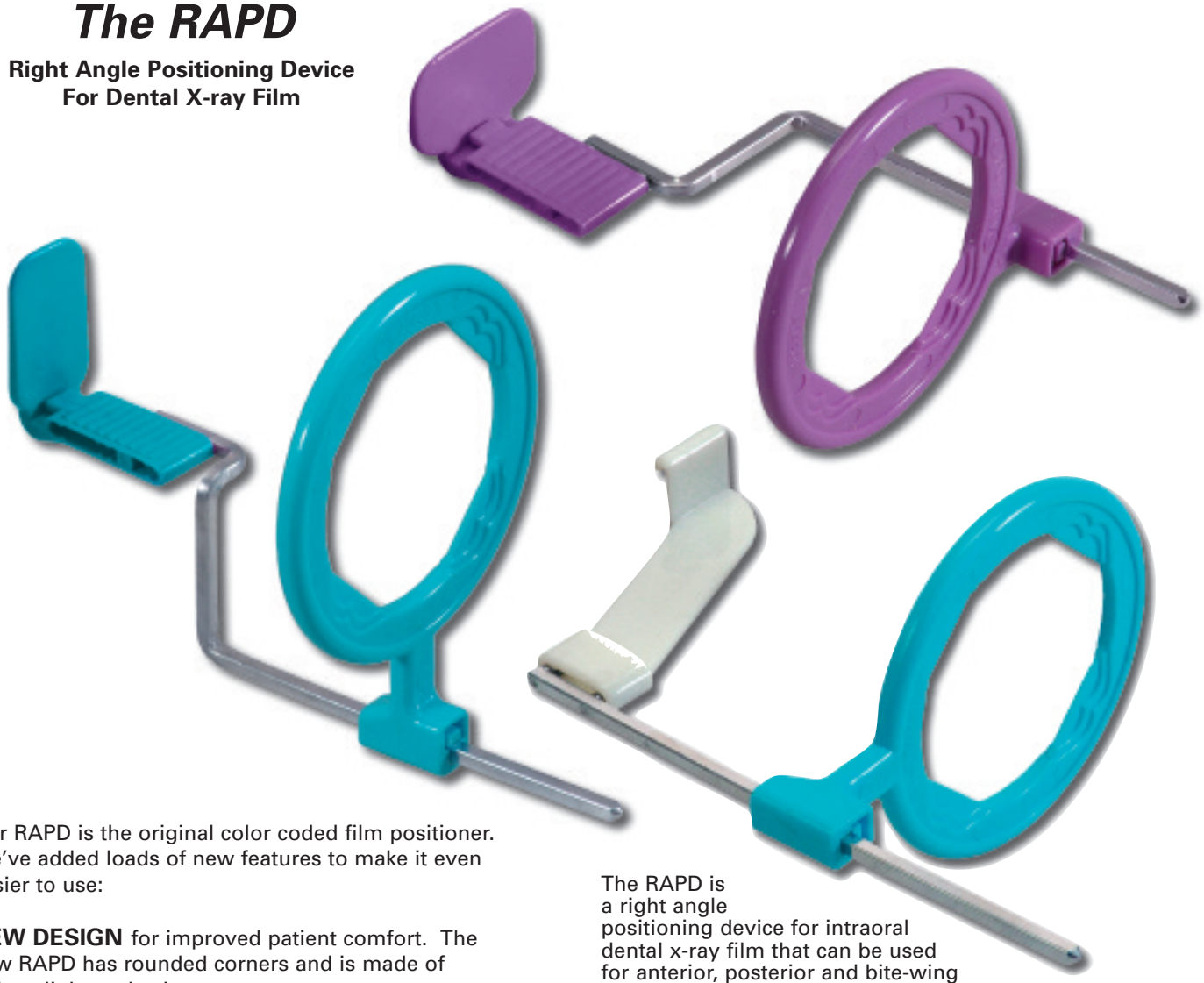
Duplicating Film DUP-512

Kopy Kat 512® is a 5 x 12 inch duplicating film.1 sheet will reproduce 1 pano film or up to 27 intraoral x-rays. Packaged 50 sheets per box. DUP 512 can be exposed on any duplicator. Note: Kopy Kat Film is notched to identify which side should face the film being exposed.

Stock Number 18070.
Available in 6 x 12" sheets. **Box of 100. Stock Number 18071.**

The RAPD

Right Angle Positioning Device
For Dental X-ray Film



Our RAPD is the original color coded film positioner. We've added loads of new features to make it even easier to use:

NEW DESIGN for improved patient comfort. The new RAPD has rounded corners and is made of softer, lighter plastic.

NEW MATERIAL for added flexibility that makes film loading quick and easy. Our softer, more pliable material holds films more securely! Quick and Easy!

NEW COLORS See for yourself! Our new colors are fun and will bring a smile to your patient's face.

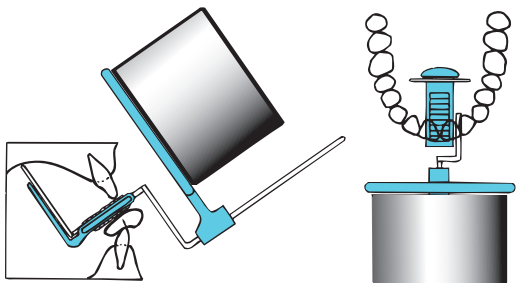
SAME OLD LOW PRICE. We tried to come up with a more expensive RAPD, but couldn't do it. The RAPD is still generally priced up to 20% lower than comparable systems (XCP).

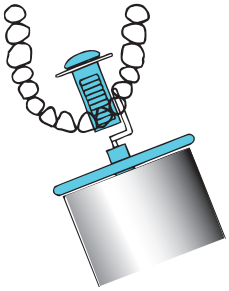
The RAPD is a right angle positioning device for intraoral dental x-ray film that can be used for anterior, posterior and bite-wing dental x-ray exams. The RAPD can be used with any brand and size (sizes 3,2,1 and 0) of dental film. The right angle positioning system assures correct film/cone alignment preventing "cone cutting".

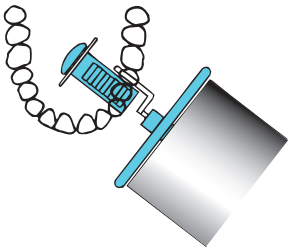
The RAPD's color coding makes assembly of the instruments error proof, and RAPD's are autoclavable for over 100 uses. Note that you cannot chemiclave or dry heat sterilize or use the autoclave drying cycle.

All RAPD components are interchangeable with Rinn's XCP™ System.

RAPD ordering information is on the next page.

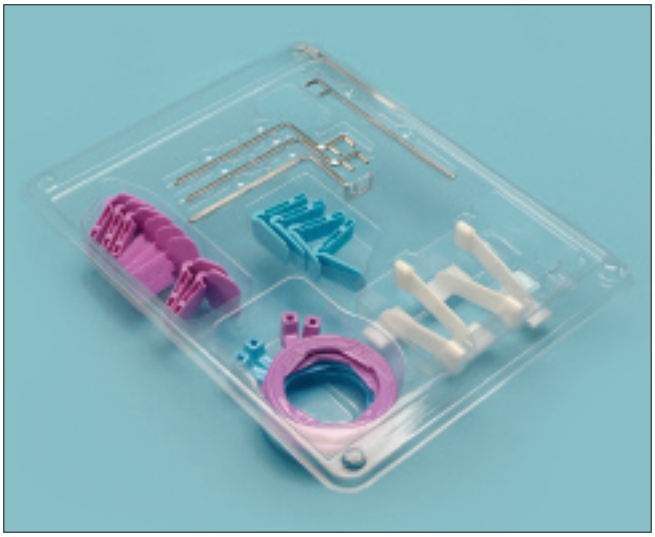






XCP is a registered trademark of Dentsply international.

RAPD Kits

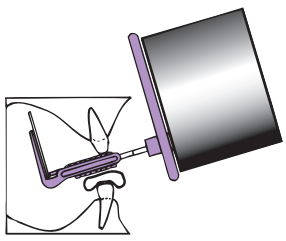


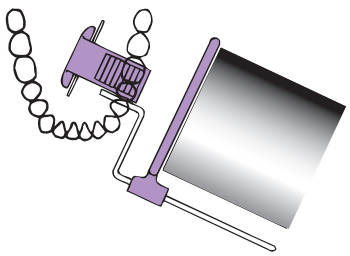
As shown above, the two complete RAPD kits (408560 and 409280) are shipped in reusable blister pack trays, perfect for storing your RAPD neatly in a drawer. Additionally, step by step instructions for the RAPD are included in these kits, illustrating assembly and oral positioning.

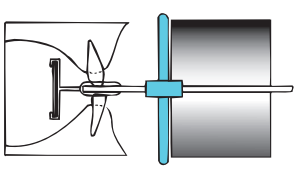
Paralleling Kit with Bite-Wing	**4 Aiming Rings**	**4 Indicator Arms**	**16 Bite-Blocks**	**408560**
	2 Anterior/ Bite-Wing 2 Posterior	1 Anterior 2 Posterior 1 Bite-Wing	4 Anterior 8 Posterior 4 Bite-Wing	
Paralleling Kit without Bite-Wing	**3 Aiming Rings**	**3 Indicator Arms**	**18 Bite-Blocks**	**409280**
	1 Anterior 2 Posterior	1 Anterior 2 Posterior	6 Anterior 12 Posterior	
Bite-Wing Kit with #2 Vertical Bite-Blocks	1 Aiming Ring	1 Indicator Arm	4 Bite-Blocks	**409250**
Bite-Wing Kit with #2 Horizontal Bite-Blocks	1 Aiming Ring	1 Indicator Arm	4 Bite-Blocks	**409260**
Bite-Wing Kit with #3 Horizontal Bite-Blocks	1 Aiming Ring	1 Indicator Arm	4 Bite-Blocks	**409300**
Bite-Wing Kit with #0/1 Horizontal Bite-Blocks	1 Aiming Ring	1 Indicator Arm	4 Bite-Blocks	**409320**

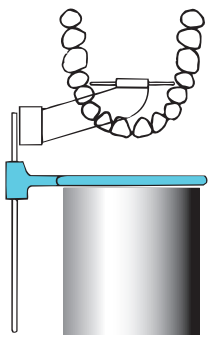
RAPD Parts Available Separately

Anterior Positioner Parts			Posterior Positioner Parts			Bite-wing Positioner Parts				
1 Anterior & Bite-wing Aiming Ring	25 Anterior Bite-Blocks	1 Anterior Arm	1 Posterior Aiming Ring	25 Posterior Bite-Blocks	1 Posterior Arm	Bite-wing Bite-Blocks #2 Hor.	#2 Ver.	#0/1 Hor.	6 Each #3 Hor.	1 Bite-wing Arm
408590	408610	408570	408600	408620	408580	409290	420410	409330	409310	409270
	10 each Anterior & Posterior Bite-Blocks 408630									









The New SMART SYSTEM For Digital Phosphor Plates

Flow X-Ray's patented new SMART system makes using phosphor plates just as easy, familiar, and convenient as film!

With the unique SMART Cassette system you and your staff will be up and running in minutes! Simply load your phosphor plates into the SMART cassettes. Each cassette, (size 2 or 0/1) is color coded to size and includes an identifying dimple and notch to insure the correct positioning of your plate. The patented SMART cassettes keep phosphor plates safe from accidental damage while also protecting them from moisture and light exposure. No more messy, expensive "baggies" for your phosphor plates!

But even more important is the SMART system! You simply clip your SMART cassette onto our universal bite block (autoclavable) and attach it to the SMART alignment device. The alignment device includes an aiming ring and positioning bar, (to keep everything in parallel alignment!)

It works just like your XCP™ or RAPD film positioner!

All parts are color coded for quick and easy set-up! SMART cassettes are single-use, economically priced for proper infection control and convenience. All other parts, including the universal bite block, are fully autoclavable!

The SMART system: So smart it's just like film...

- Load your SMART cassettes with phosphor plates.
- Snap your SMART cassette into the universal bite block and expose.
- Transport your exposed plates to your processing area. Open the cassettes and drop the used plates onto a clean paper towel or tray.
- Discard the used SMART cassettes, remove your gloves, and process your phosphor plates per manufacturer's recommendations.

After clearing the plates to erase the image, simply re-load into a new, un-used SMART cassette.

XCP is a registered trademark of Rinn.

Complete Starter Kit				40854
4 Aiming Rings 2 Anterior/ Posterior	**4 Indicator Arms** 1 Anterior 2 Posterior 1 Bite-Wing	**8 Bite-Blocks** Universal	**70 Cassettes** 20 Anterior 50 Posterior	
Posterior Starter Kit				40855
2 Aiming Rings Posterior	**2 Indicator Arms** Posterior	**4 Bite-Blocks** Universal	**50 Cassettes** Posterior	

Replacement Cassettes, Bite-Blocks, Arms & Rings		
100	Posterior, size 2 cassettes	40852-1
250	Posterior, size 2 cassettes	40852-2
100	Anterior, size 1/0 cassettes	40850-1
250	Anterior, size 1/0 cassettes	40850-2
12	Universal bite-blocks	40870-1
24	Universal bite-blocks	40870-2
48	Universal bite-blocks	40870-4
1	Anterior Indicator Arm	40857-1
1	Posterior Indicator Arm	40858-1
1	Bite-wing Indicator Arm	40827-1
1	Anterior/Bite-wing Aiming Ring	40859-1
1	Posterior Aiming Ring	40860-1

Single Use Film Positioners

Self-Adhesive Bite-wing Tabs Packed 500 in an automatic dispenser box, Flow's Self-Adhesive Bite-Wing Tabs easily fold down and stick to any size film.
Stock No. 15720

Made of heavy duty paper board, Flow's bite-wing loops are made to accommodate any dental film.
Adult Stock No.15700 (500)
Adult Econo Loops
Stock No. 15725 (1,500)
Child Stock No. 15710 (500)

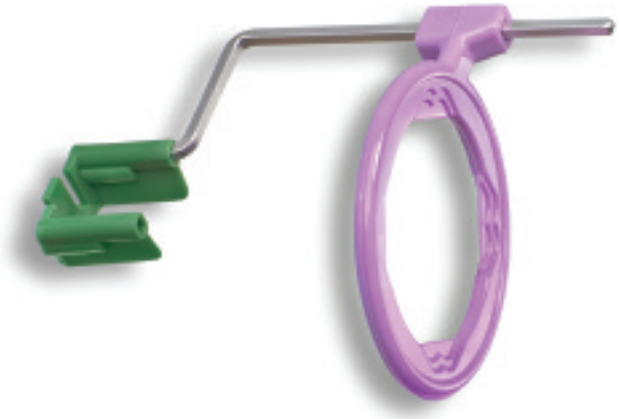
Cushies are pre-slit foam tubes you slip on the film to "cushion" the film edges when placed in the mouth. Cushies are perfect to place between a patients teeth and the RAPD bite-blocks making it easier for the patient to hold the bite-block in place. 50 per box.
Stock No. 15800

Supa's are foam film holders designed to keep your film at a 90° angle to the tooth during x-rays. Perfect for parallel film positioning.

Simply place your film in the Supa retention slot, position it in your patient's mouth, aim and shoot. Supas soft cushiony material serves as an ideal bite block, they're great for Anterior or Posterior exams using size 0,1, or 2 films. Supa's bite blocks are scored so they can be reduced if necessary. Supa's come in boxes of 100 pcs.
Stock Number 16087

Endodontic X-ray Positioner Kit

Flow's new Endodontic Positioner Kit combines the advantages of the right angle positioning technique in an endodontic format to eliminate cone-cutting when taking x-rays during endodontic procedures.



Our Endodontic Kit works just like our RAPD system except that it is designed specifically for endodontic x-rays.

The film holder, arm and ring set up quickly and easily and are lightweight and pliable. The bite-block fits over clamps, files and dams without touching the patients tooth. The positioner fits in all areas of the mouth and can be used with Size 1 or 2 film.

The entire kit is autoclavable and like the RAPD is available as a kit or replacement bite-blocks, arms and rings.

Endodontic X-ray Positioner Kit 2 Aiming Rings 2 Indicator Arms 2 Bite-Blocks	40303
Parts Available Separately	
1 Aiming Ring	40010
1 Indicator Arm	40311
3 Bite-Blocks	40312

EnVisionDC Intraoral X-ray

PROUDLY M

Designed For The Future of Dental Imaging

X-Ray imaging is typically the first, most important component of effective diagnosis treatment, planning, and good record keeping. That's why you should choose our high definition EnvisionDC as your next X-Ray.

Razor-sharp images with lower exposure to your patients! EnVisionDC delivers exceptional image quality thanks to its direct-current high-frequency technology, which delivers a short burst of energy rather than a series of waves as with conventional x-ray systems. This innovative technology reduces patient exposure time by roughly 50 percent while producing sharp, detailed images with a superior blend of grayscale and contrast. DC x-ray technology has the ability to support fluctuations in supply voltage to the x-ray head to guarantee accurate time cycles and quality imaging when compared with older AC systems. It is important however that if a voltage or image quality problem persists, that a qualified technician or electrician check the electrical supply to the X-ray machine.

Designed to work with all media

EnVisionDC offers the ultimate flexibility for your practice, it can be used with digital sensors, phosphor plates, or conventional film. You never need to invest in a new X-ray should you change your imaging media.

Intuitive, user-friendly control panel

Designed with the user in mind, the EnVisionDC control panel makes exposing x-rays as simple as 1-2-3. Simply select the tooth, media type (D or F speed film or digital), patient size and fire! Any of the pre-programmed settings can be manually adjusted and the control panel can be mounted either at the unit's base or remotely, as much as 35' away from the base unit!

Advanced self-diagnostics ensure optimal performance

EnVisionDC runs an advanced self-diagnostic check at each power-up and before each exposure. It alerts the user to any operator, utility or maintenance malfunction with an audible signal and visual error code, which identifies the problem and provides recommended corrective action, this reduces downtime and improves patient safety.

Effortless arm and tubehead positioning

The ultra-light tubehead and superior arm balance makes it a breeze to navigate the arm and tubehead into the correct patient position.

Reliability from a trusted name

Flow X-Ray has been providing reliable products to the medical and dental industry for over 75 years. Our toll-free support hotline and national service network will provide prompt response to any question or issue.

The EnVisionDC is backed by a two-year limited warranty! EnVisionDC specifications and ordering information are on page 15.

MADE IN THE UNITED STATES

HDX X-ray

With high definition radiography you can achieve crisp, sharp, detailed results every time, regardless, of film speed or digital exposure times. HDX offers both high contrast for caries detection, and broad grayscale to meet the demands of variable tissue diagnosis.

Here's why the HDX should be your next X-ray;

Reduced Exposure Times

Power-packed Constant Potential (DC technology) reduces exposure times. In fact, this important innovation... "can reduce entrance exposure by up to 30%."

Simple, Intuitive Operator Controls

- Design makes advanced technology simple to understand.
- Fully adjustable, easy to read exposure settings (.01 - 2.0).
- Remembers your most frequently used exposure settings.
- Controls can be remote-mounted or integrated.
- self-diagnostic software with audible and visual prompts

Self-Diagnostics

- Guarantees performance every time you turn the unit on.
- Error messages, both audible and visual, are clear and pinpoint the suggested operator response.

Suspension Arm

- The horizontal reach of the standard arm will easily accommodate a two-operatory pass-through design.
- Where space is limited, a short arm version is also available.
- The lightweight tubehead and stable suspension arm provide easy, accurate positioning.

Line Voltage Compensation

- Provides trouble-free operation over a wide range of image-softening voltage fluctuations.

Fast-Track Installation

- Can be quickly mounted to meet room configurations.
- Small mounting plate for pass-through installations.

Customize HDX to your practice!

- All mounted units are available with a 58" or 74" reach.
- All models are available with integrated or remote-mounted control (includes 35ft. connecting cable).
- Standard 8" round cone. Options include; 12" round, 8" & 12" rectangular.
- Mobile and portable units are available.

Best warranty in the business

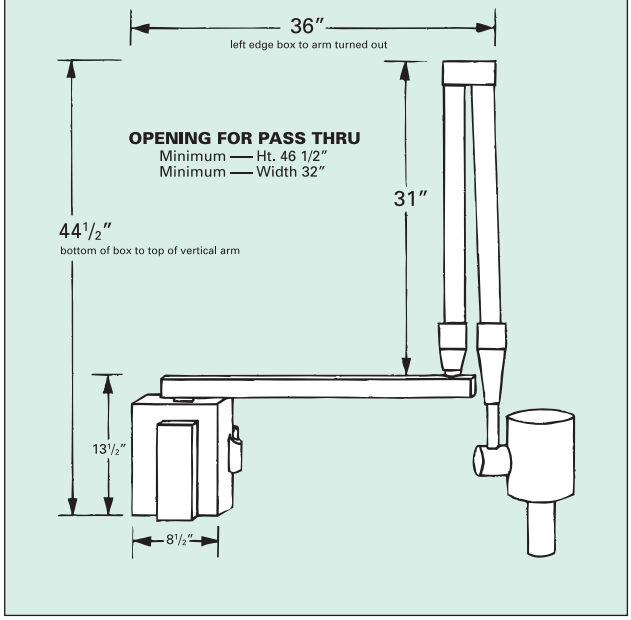
Flow X-ray's HDX Intraoral X-ray is sold and warranteed exclusively through authorized Flow X-ray full service dealers, and comes with a limited two year warranty.

**Compendium Report, May 1993, Vol. XIV, No. 5, "S-radiation: Potential Risks and Dose Reduction Mechanisms".*

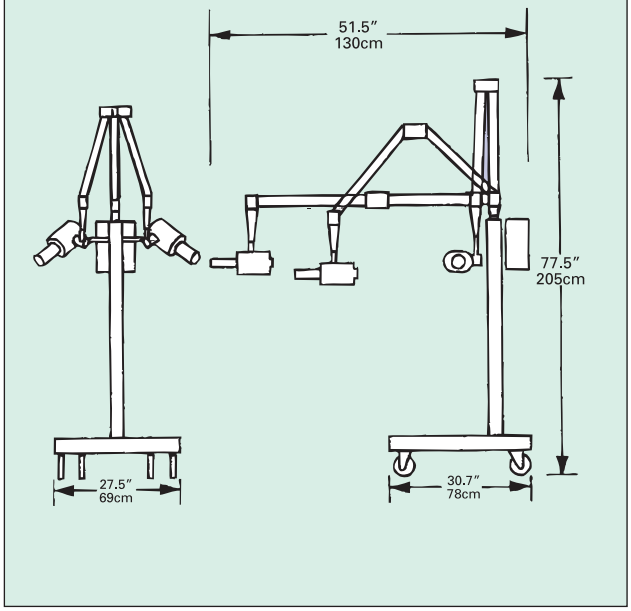
see the next page for HDX specifications.

Technical Specifications For EnvisionDC & HDX Models

Wall-Mounted



Mobile X-ray Unit



Technical Specifications

Rated Peak Tube Potential	65 kVDC
Rated Tube Current	7mA
Line Voltage Range	100-130/200-250 50/60 Hz
Line Voltage Regulation	4%
Rated Line Current	11/5.5 Amps
Exposure Time Range	0.01 to 2.00 seconds in 0.01 second increments
Accuracy	± 0.01 second
Focal Spot	0.8 x 0.8 mm
Duty Cycle	1:60 (one - 0.25 second exposure every 15 seconds)
Total Minimum Filtration:	1.5 mm aluminum equivalent

Installment Requirements	Double Stud Mounting preferred, or Single stud mount (refer to wall requirements)
Dimensions Wall Plate	12″H x 9″W Vertical travel: 50″ Useful range: 44″ Maximum reach 74″
Control Panel	Attached to the wall plate. Contains the microcomputer, time display and the control switches.
Remote Control Panel	Contains the control panel with 35 ft. long low voltage cable for remote mounting.
Shipping Weight	67 pounds (30.5 kg) – wall mounted unit; 135 pounds (61.4 kg) – mobile unit

Stock Numbers

X-ray unit 120V with 16″ mounting plate

See the drawing above for dimensions

Description	EnVision	HDX
74″ reach with integrated control panel, hand-held coiled cord exposure switch	400000	300000
58″ reach with integrated control panel, hand-held coiled cord exposure switch	400001	300001
74″ reach with remote control panel, includes 35 ft. of connecting cable	400003	300003
58″ reach with remote control panel, includes 35 ft. of connecting cable	400004	300004

Mobile X-ray unit

See the drawing above for dimensions

Description	EnVision	HDX
Mobile X-ray unit (120V, mounted on wheeled stand)	400021	300021
Mobile X-ray unit (230-240V, mounted on wheeled stand)	400022	300022

X-ray unit options

302983	8″ Short Round P.I.D.*
300310	12″ Long Round P.I.D.*
302984	12″ Long Round P.I.D.
302971	8″ Short Rectangular P.I.D.*
302986	8″ Short Rectangular P.I.D.*
302972	12″ Long Rectangular P.I.D.*
302988	12″ Long Rectangular P.I.D.*
365196	Tubehead Positioning Handle

382953	Horizontal Arm, Short, 58″ (228 cm) maximum arm reach
301979	Remote Exposure Switch Adapter (does not include exposure switch)
300018	16″ Center-to-Center Mounting Plate
300019	Back Plate Kit for opposite side of wall
302959	Arm Cable Replacement Kit
381218	8″ Cone

300061	12″ Cone
300072	Power Cord Kit, 120V
300927	Remote Membrane Switch Assembly
300071	Hand-held coiled cord exposure switch
300412	Hand-held exposure switch holder

*Cones with square end edges for Great Britain

Image Box analog to digital x-rays

Now you don't have to purchase expensive new equipment to enjoy the benefits of digitized X-Rays, (a complete digital X-Ray system can cost you over $60,000!)

Go Digital without the hassle and expense with the new Image Box!

A wonderful aid in treatment planning, diagnosis, and patient education, the Image Box sets up in seconds, is easy to use, and costs pennies a day to operate.

You simply load your film and the Image Box instantly digitizes the image! And if you want to save or send the image, you can connect your Image Box to a computer using a video capture card.

Quick, easy to use and affordable. The Image Box sets up quickly and easily:

1) Simply connect your Image Box to either a TV Monitor or computer, (computer must have either a video-in or s-video-in connection).

2) Insert your exposed X-Ray film into the film tray.

3) Push the yellow button - presto! Instant Image! The Image Box controls allow you to lighten or darken the image, too.

The Image Box sets up in minutes, and it comes with all the wiring required. Note, it does not include a monitor, TV, or video capture card and/or software.

Dimensions: H 4 1/2" W 3 7/8" L 6 1/2"
Image Box Stock Number 50209

Camera Caps

With new Camera Caps from Flow X-Ray you can use your intraoral camera to quickly and easily turn x-rays into digital images. And all for only 7 cents per patient!

Camera Caps is a single use masking device that fits easily onto most intraoral cameras. Simply place your Camera Cap onto the head of your intraoral camera and aim your camera at the x-ray, (mounted on a lit viewbox). You now have a digital image of the x-ray on your monitor! You can even store your images by adding a video capture card.

Camera Caps come in a self-dispenser of 200 Caps/box.
Stock Number 16810

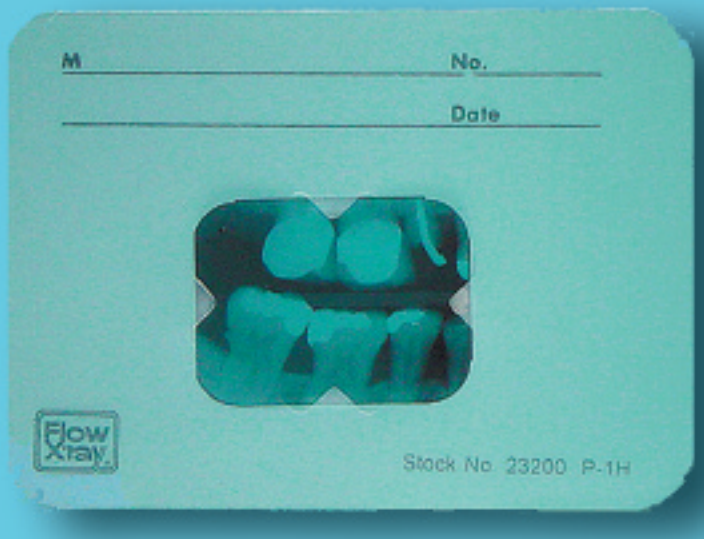
Flow X-Ray Mounts

Greylight Mounts

Similar to the Rinn EZ-Tab* and ADA* style Mounts, our Greylight Mounts feature open window viewing. Films are held in place via embossed frames with raised borders that load easily and lock films firmly into place. Greylight mounts can be imprinted with custom doctor information. **Greylight mounts are available in 18 configurations.**

Klear-Vue Cardboard mounts

Three layers of cardboard form a recessed pocket and lip that hold film in place. Flow mounts are printed with room for patient data (name, date, notations). Mounts can be imprinted with personalized doctor information. Klear-Vue mounts are comparable to Rinn's EeZee mounts*. **Klear-Vue mounts are available in 15 different configurations.**



EZ-Grip Plastic Mounts

Similar to Rinn Eezeemount* plastic and Greene* TransView Mounts. EZ-GRIP Plastic mounts are made from a thin semi-rigid vinyl with die-cut tabs. Thinner than other mount styles, EZ-Grip mounts allow for compact storage of your patient records. Can be imprinted with custom doctor information. **EZ-Grip mounts are available in 15 configurations.**

Styles and stock numbers for all Flow x-ray mounts are on the following pages. All mounts are packaged 100 per box.

*ADA Mounts are a Registered Trademark of Block Drug *Rinn EeZee Mount, EZ-View, EZ Tab and Greene Transview are Registered Trademarks of Dentsply International.
*Trollmount is a Registered Trademark of Trollplast.

			Graylight Plastic Mounts	Klear Vue Cardboard Mounts	EZ Grip Plastic Mounts
	1H	1 wind horiz size2	601-200G	25200	23200
	2H	2 wind. size 2 horiz. size 0	602-203G 402-608G	25203 25608	23203 23608
	2HBT	2 wind. horiz. B wing	702-206G	25206	23206
	4H 4H "0"	4 wind. horiz. size 2 4 wind. horiz. size 0	604-209G 404-609G	25209 25609	23209 23609
	4V	4 wind. vert. size 2	604B-510G		
	4H-2R	4 wind. horiz. 2 rows, size 2	6045-239G	25239	23259
	6H	6 wind. horiz. 2 rows, size 2	606-215G	25215	23215
	6-2V	6 wind. 4 horiz. 2 vert. size 2	606B-216G	25216	23216
	7-3V	7 wind. 4 horiz. 3 vert. size 2	607-217G	25217	23217
	8H	8 wind. horiz. 2 rows, size 2	608-219G	25219	23219
	10H	10 wind. horiz. 2 rows, size 2	610-220G		
	10 wind. B wing 10BT-"0" 10BT-"2" 10BT-"3"	 size 0 size 2 size 3	 610-261G 610-262G	 25260 25261 25262	 23260 23261 23262
	10-6V	10 wind. 4 horiz. 6 vert. size 2		25240	23240
	14-6V	14 wind. 8 horiz. - 6 v. size 2 size 0	614-225G 614B-625G	25225 25625	23225
	16-6V	16 wind. 8 horiz. 6 vert. size 2	616-226G	25226	23226
	16-6V 2BT	16 wind. 8 horiz. 6 vert. size 2 2 B wing	716-227G	25227	23227
	18-6V	18 wind. 12 horiz. 6 vert. size 2	618-228G	25228	23228
	20H	20 wind. horiz. size 2	618-230G		
	20-12H "2" 8V	20 wind. 12 horiz. size 2, 8 vert. size 1	610-270G		

NEW LEAD-FREE PROTECTIVE APRONS

Bib Apron without collar

Child size Bib Apron with attached Collar

Bib Apron with attached collar

Panoramic Apron

The safety of lead protection without the lead or the weight.

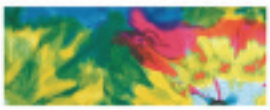
Choose from tye-dye, tropical, hawaiian or camouflage,

Our new aprons are made of environmentally friendly lead-free, non-toxic materials, they're lighter weight and more flexible than conventional lead aprons, but have the same protective qualities!

All Flow no lead protective apron styles are 0.25mm lead equivalency protection,aprons are backed with a tear resistant cling back. Separate thyroid collars are available in the 4 fabrics shown. Please note that these four patterns are only available with the lead free feature. Our standard lead aprons available in seven colors are shown on the next page.

To Order Your Apron

To order a no lead protective apron take the stock number (shown below) and place the fabric # after it.
Example: If you wanted to order a Bib Apron without a collar in the "Tye Dye" fabric your order # is **75050NL-30.**

30 

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32

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Description	size	stock number
Bib Apron without collar	24 X 26"	75050NL (+ color #)
Bib Apron with attached collar	24 X 26"	75051NL (+ color #)
Child size Bib Apron with attached collar	20 X 20"	75053NL (+ color #)
Panoramic Apron	24 X 27"	75061NL (+ color #)
Thyroid Collar	5 X 27"	75056NL (+ color #)

TRADITIONAL LEAD PROTECTIVE APRONS

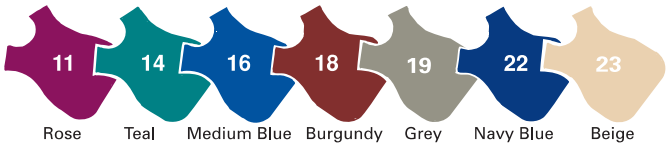
Traditional lead protection for your patients in fashionable styles and colors.

Flow lead protective aprons are the industry standard. Manufactured from lead rubber sandwiched between an attractive vinyl front and a tear resistant cling back, our aprons clean easily with soap and water. Made for years of heavy use, our aprons are available in the colors shown below.

All our lead aprons are .3mm lead equivalency protection, and all four styles are also available in the lead free format described on the previous page, just write "NL" after the stock number and before the color number. And for the perfect accessory to store your apron, Flow carries the Uni-Hanger which allows you to hang your apron on a hook or in a closet preventing folds which damage the lead lining.

To Order Your Apron

To order a protective apron take the apron stock number (shown below) and place the fabrics # after it.
Example: If you wanted to order a Bib Apron without a collar in the "Rose" your order # is **75050-11.**



Description	size	stock number
Bib Apron without collar	24 X 26"	75050 (+ color #)
Bib Apron with attached collar	24 X 26"	75051 (+ color #)
Child size Bib Apron with attached collar	20 X 20"	75053 (+ color #)
Panoramic Apron	24 X 27"	75061 (+ color #)
Thyroid Collar	5 X 27"	75056 (+ color #)

Slimline® Illuminator

Made for desk or wall mounting, Flow's Slimline Illuminator series gives you the maximum viewing possibilities with an economy of space and price. The Slimline's 4¾ x 13¾" viewing area accommodates any mount up to a full series.

The Slimline comes with bulbs, 6 foot line cord and keyholes in back for easy wall mounting.

Specifications: 6½"High x 15¼"Wide x 2½"Deep Approx. shipping weight: 3 lbs.

Description	Stock Number
steel with a white baked on finish	21730
Same as above with a stainless steel front	21731
heavy duty white plastic	21502

Econoline Illuminator

The Econoline's 14 X 17" viewing area is perfect for lateral and PA cephalometric x-rays. The Econoline is available as a single unit (14 X 17" viewing area) or a double unit (28 X 17" viewing area) and can be wall hung or recessed in the wall with our optional recessing frame.

The Econoline features 2 bulb illumination (15 watts each - 2,860 Candela per square meter), a baked on white enamel finish, a magic grip film retainer and a 6 foot line cord with a 3 prong plug.

	Height	Width	Depth	Stock #
Single	18-1/4"	14"	3-1/2"	29601
Double	18-1/4"	28"	3-1/2"	29602
Recessing Frame				
Single				29701
Double				29702

Chairside Darkroom

The unit consists of a light proof box with a safelight filter window and openings for your hands. Inside the box are cups for the developing, wash (2 cups) and fixing solutions with screw on tops to preserve solutions between use, clips to hold the processed film and a bar to hold the hanger clip while the film dries. To access the interior of the unit, you can either slide the plexiglass GBX type safelight window up or lift the top off (as shown) for complete interior access.

The Chairside Darkroom is constructed of heavy gauge plastic to withstand years of use.
Replacment sleeves and cups are available.

Specifications: 12½" High x 17½" Wide x 17" Deep.

Stock Number 24230

The Flow Big Timer Our analog timer features a giant 8" diameter dial that gives you timing from 1 second to 60 minutes. It automatically shuts-off a duplicator or other electrical appliances, and has a clear buzzer signal.
Stock Number 18900

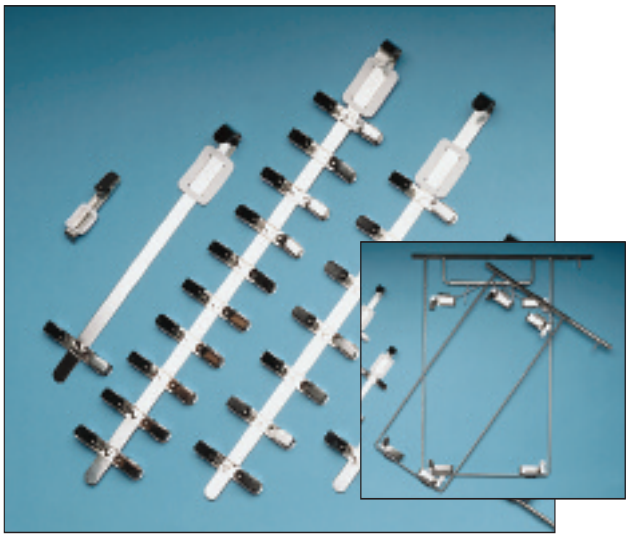
The Electronic Timer Our digital timer is a pocket sized 2 5/16" wide x 2 1/16" high x ½" thick. It attaches to anything: it has a spring-loaded clip that converts into a stand, a magnet for metal surfaces, and a hanging hole. Times from 100 minutes down to 1 second and emits a tone when timing period is completed.
Stock Number 18906

Dial Thermometer Calibrated from 0° - 140°F, it clips on to the tank, or floats. **Stock Number 18903**

Glass Thermometer floats in the developing tank. Thermometer is calibrated from 0° - 100°F.
Stock Number 18904

Stainless Steel Thermometer Thermometer is calibrated for accuracy between 20° and 150° fahrenheit. **Stock Number 18905**

Digital Thermometer Registers temperatures from -40° to 300°F. Just place it in the solution and press the button. The temperature is digitally displayed on a LCD. Runs on a battery (included) and comes with a lifetime warranty. **Stock Number 19107**



E-Z Dip® Film Developing Hangers The hanger consists of a stainless steel strip, curved at the top, to which are attached spring clips and identification tabs.

Size	Stock No.	Size	Stock No.	Size	Stock No.
2 clip (long)	**16201**	10 clip	**16206**	Single Clip	**16210**
4 clip (long)	**16203**	12 clip	**16207**	10 clip (long)	**16215**
20 clip	**16204**	14 clip	**16208**	12 clip (long)	**16216**
18 clip	**16205**	16 clip	**16209**	14 clip (long)	**16217**

Replacement Dental Hanger ID Tabs
Stock No. 14400 and **Stock No. 14401** (Single Clip)

Extraoral Film Developing Hangers These hangers are for manually developing panoramic and cephalometric x-rays.

Size	Stock No.	Size	Stock No.
5x7 inches	**16300WH**	5x12 inches	**16501**
8x10 inches	**16632WH**	6x12 inches	**16502-SC**
10x12 inches	**16302WH**		

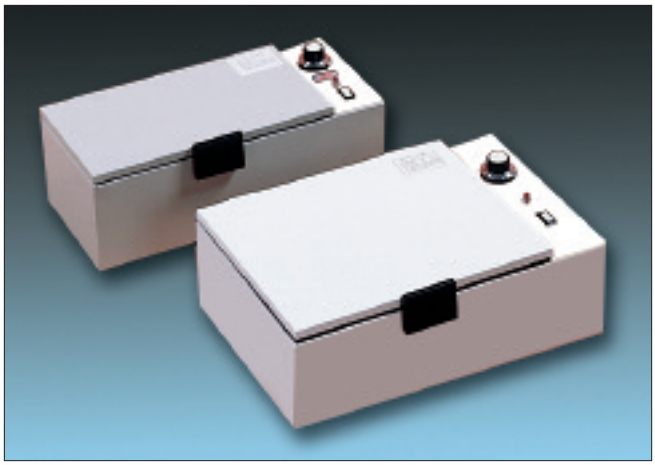
ID Printers allow you to expose patient information onto extraoral film. The Flow **"Auto Printer"** has an adjustable exposure timer. Set the timer, insert ID card and press the exposure plate. **Stock Number 17105.**
Manual ID Printer Just insert the film and ID card, hold down the exposure plate, and release. Compatible with Kodak and Wolf ID cards. **Stock Number 17104.**

ID Printer Cards 1,000 per box. **Standard 3 x 5" Stock I.D. Cards** Printed with blanks for patient name and address. **15100 Personalized Standard 3 x 5" I.D. Cards** Same as above with customer imprint (3 line max). **15102. Double Printed Standard 3 x 5" I.D. Cards** Identification blocks printed top and bottom. Standard **15150.** Custom Imprinted **15151**

Kopy Kat® X-ray Film Duplicators

Flow X-ray offers two duplicators. The 10x12 inch surface of the 21522 is perfect for duplicating full series or panoramic x-rays, the 21520 will duplicate all films up to 6x12 inches.

Our duplicators can be used with any duplicating film. To operate the duplicators, place the film to be duplicated on the plexiglass screen with a sheet of duplicating film on top*, close the cover and set the exposure time. A red light signals you when exposure is complete.



Screen Size	Unit Dimensions L	W	H	Shipping Weight	Stock Number
6 x 12"	18 1/4"	8"	6 1/4"	12 lbs.	21520
10 x 12"	18 1/4"	12"	6 1/4"	22 lbs.	21522

*** Follow duplicating film instructions carefully, making sure correct side of film is face down.**

Intensifying Screens

Mounted inside your cassette, intensifying screens reduce exposure to patients and eliminate scatter radiation. **Hi-Plus:** made of calcium tungstate, provides medium speed when used in conjunction with standard blue sensitive film. 200 Speed. **Rarex BG Medium (Green Emitting):** For the same applications as Rarex BG Regular but with half the speed. 200 Speed. Use with green emitting screens.

Intensifying Screens	
Hi-Plus	Medium
10039	10765
10640	10766
10017	10748
10018	10750

Slimline Cassettes

Slimline cassettes are easy to open and close, thin for easier storage, and lightweight for easier handling.

Slimline cassettes can be used with any brand film, screen or grid.

	Cassettes
5 x 12" (panoramic)	11365
6 x 12" (panoramic)	11366
8 x 10"	11318
10 x 12"	11319

Tech Tip: If you are experiencing light Panoramic or Cephalometric films exhibiting low contrast and density. If you have verified correct film type and processor function, there's a good chance the intensifying screen are worn out. Intensifying screens are mounted in the film cassette and are responsible for enhancing image quality in extraoral techniques. They do have a limited useful life and need to be replaced time to time. Flow x-ray manufactures both Green emitting and Blue emitting screens for most Panoramic and Cephalometric machines. Your distributor technician will be able to replace intensifying screens for you if required.

Better Pre-mixed Chemistry is available as follows:

2 gallons developer and 2 gallons fixer:
Stock# 24224

4 gallons developer only:
Stock# 24222

4 gallons fixer only:
Stock# 24223

Better® Pre-Mixed Developer And Fixer

Why is Better better? For starters Flow eliminated the ugly smell other chemistrys have. Our fixer has a fresh, pleasant fragrance! You'll no longer dread going into the darkroom. Next we developed a formula that resists oxidation. You'll get more x-rays per gallon. Your chemistry costs just went down!

Better is specially designed to work with all roller processors and with all films.

Flow Clearing Sheets

Our 7 1/2 X 9" clearing sheets fit all intraoral and extraoral processors. Simply feed a sheet thru in the morning after machine warm-up, and as many times during the day as necessary. Flow Clearing Sheets help remove silver residue and algae, off the roller racks. Each sheet can be used up to 3 times.

Stock Number 70106

Value Chem® Concentrated Developer And Fixer

Flow Developer has a Phenidone base for a higher concentration of developer for better radiographs and slower oxidation of the solution. Flow Fixer is designed to fix a film in three minutes. A bottle of concentrate makes one gallon of working solution.

One each Developer & Fixer 24220

Swivel Safelight
Perfect for direct spotlighting, this wall mounted unit swivels to any position. Easy to install via 2 keyholes, the Swivel Safelight includes a GBX type filter, light bulb, and a 6 foot cord with a three prong plug. Specifications: 7½" H x 6" W, Approx. ship weight 5 lbs.

Stock Number 19198

Angular Safelight
The Angular Safelight is ideal where a direct light is wanted. Easy to install via 2 keyholes, the Angular Safelight includes a GBX type filter, light bulb, and a 6 foot cord with a three prong plug. Specification: 10"H x 7½"W x 5½"D. Approx. shipping weight 5 lbs.

Stock Number 19103

Combination Safelight
This unique two-compartment unit features a safelight at the bottom and a normal incandescent room light at the top. The safelight is filtered by our GBX type filter and comes with a 6 foot cord and a 3 prong plug. Specification: 15½" Long x 10" Wide x 2½" Deep. Approximate shipping weight: 12lbs.

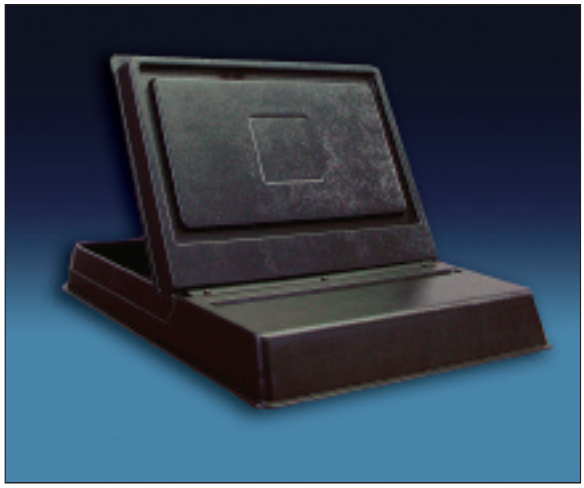
Stock Number 19106

The Swivel and Angular safelights are also available with an optical SENSOR that turns the safelight on automatically when the regular light is shut off (the unit can still be shut off with the on/off switch), the stock number for the Swivel safelight with the sensor feature is **19298**. The stock number for the Angular is **19203.**

Circular Safelight
Our economy model screws into any existing outlet. Made of aluminum, filtration is from a GBX type filter that is removable for bulb replacement. Specifications: 5¼"L x 4⅛"D. Approximate shipping weight 5 lbs.

Stock Number 19104

Note: all Safelights should be positioned a minimum of 36" away from processing area to avoid film fogging.



Econo-Top Film Bin
Now you can safely store your Pano Film without having to worry about accidental exposure. Flow's new Econo-Top Film Bins are your economical choice!

The Econo-Top Film Bin is made of durable plastic so it's lightweight and easy to handle. It features an easy to use lid that secures with Velcro fasteners, and comes fully assembled.

Item 25130 holds up to 300 5" x 12" or 6" x 12" films

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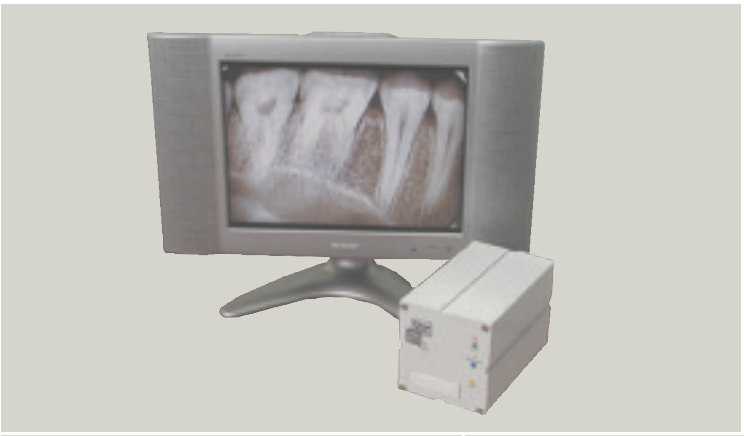
Intraoral Film Quick Reference Troubleshooting Guide

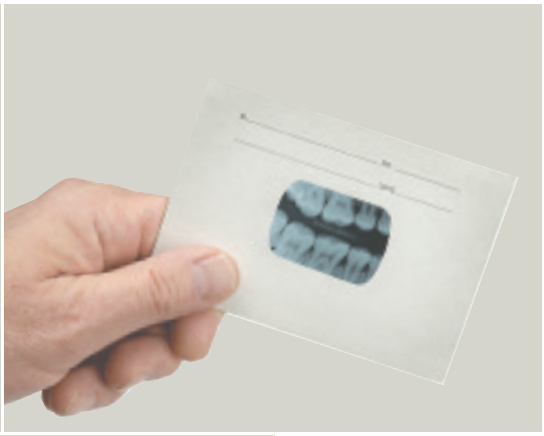
Most problems associated with intra oral dental film have to do with processing. Processing is the action of taking film out of the packet, (once it has been exposed), and running it through developer, fixer, wash, (water) and finally drying.

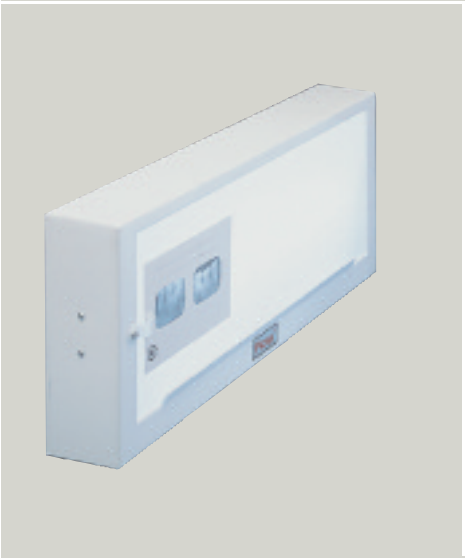
Problem	Causes and Cures
Weak or washed out image	This is caused by spent or exhausted developer solution.
Spots on film	Usually caused by cross contamination; developer splashes onto fixer or vice-versa. Also water spots from improper washing and/or drying may occur.
A bright image lacking contrast or definition	Usually caused by underexposure of film or not enough time in the developing solution. Also you should check to see if developing solution is spent or exhausted.
Bright transparent area on film	Generally caused by film being left in fixer too long. A very dark image may be caused by film being over exposed, or left too long in the developing solutions.
Transparent spots in the film	Usually the result of fixer getting onto the film prior to going into the developer. Another cause may be air bubbles on the film during developing.
Part of the image is very dark	Film was partially exposed to light during the process.
Film peeling off, scratchy white particles	May be caused by very high temperatures in the developer, fixer, or wash water. Another potential reason could be improper film storage, (high heat or humidity) or film is past it's expiration date (see the side of film box for expiration date.).

Darkroom / Processing Tips			
Darkroom temperature should be between 10˚C and 20˚C (50˚F to 68˚F) and humidity between 30-50%.	Be sure your safelight uses a GBX type filter, a frosted 15-watt bulb and is no less than 1.2 meters, (or 4 feet) away from your film handling area.	In the event film appears fogged or image is light, check for light leaks: Turn out all the lights, stand in the middle of the room for five minutes. After 5 minutes, if you can make out the outline of objects within the room, then the room is not properly light proof.	Developing solutions, (fixer and developer), should be replenished daily. Oxidation causes chemistry to break down even when not in use.

For further assistance, please contact your local dealer or Flow X-Ray customer support at 800-356-9729 or on the web at www.flowxray.com







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