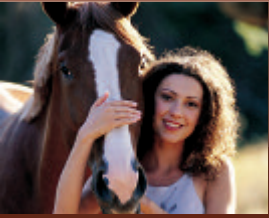


3M™ Veterinary X-ray Solutions



Superior Diagnostic
Image Quality
And The Reliability You Need.



Premium-quality 3M™ Veterinary X-ray Screen/Film Systems can save you time, labor and money.

At 3M Animal Care, we understand the challenge of taking radiographs quickly, easily and effectively. Whether you're evaluating an injured dog or doing pre-purchase exams in the sale barn, you need to know that your first film is the only one you'll need. And, given the high costs of running your own veterinary business, you simply can't afford the time and the expense of multiple retakes.

The right products

- The only X-ray company dedicated to the veterinarian
- Veterinary designed rare earth screen/film systems
- Superior image detail and clarity — premium film/screen products
- Unique veterinary accessories to address practical needs

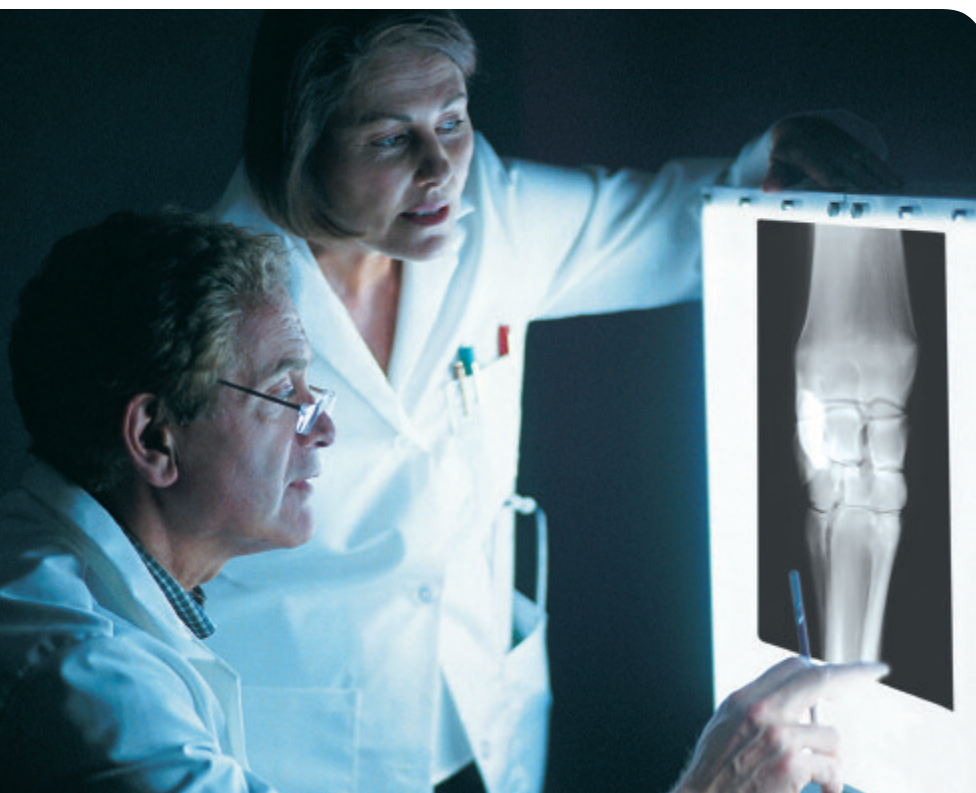
The right support

- Free technique charts for your X-ray machine
- Free Start-up Kit
- 1-800-848-0829 3M Customer Service Helpline
- Experienced veterinary technical service staff to support you
- Regional Sales specialists to serve you

The right programs

Ask your 3M distributor about our:



- Buy one, get one free cassette program
- 90-day money back guarantee



Three film choices to fit your practice and your preferences.

3M™ Asymetrix™ Detail Screens (Catalog #1441; Vinyl #1443)

3M™ Asymetrix™ Fast Detail Screens (Catalog #1442; Vinyl #1444)

<p>3M™ Ultra Detail Plus Film. High detail, high contrast.</p> 	<p>350 speed</p> <p>Equine For use with a high frequency portable X-ray machine</p> <p>Small Animal Recommended for X-ray machines with ≥ 200 mA capacity (For both table-top and grid radiography)</p>	<p>550 speed</p> <p>Equine Use with a non-high frequency portable X-ray machine</p> <p>Small Animal Recommended for X-ray machines with < 200 mA capacity (For both table-top and grid radiography)</p>
<p>3M™ Ultimate 2000 Film. High detail, wide latitude, high over/under exposure tolerance.</p> 	<p>350 speed</p> <p>Equine For use with a high frequency portable X-ray machine</p> <p>Small Animal Recommended for X-ray machines with ≥ 200 mA capacity (For both table-top and grid radiography)</p>	<p>550 speed</p> <p>Equine Use with a non-high frequency portable X-ray machine</p> <p>Small Animal Recommended for X-ray machines with < 200 mA capacity (For both table-top and grid radiography)</p>
<p>3M™ SE+ Film. The latest in single emulsion technology. High detail, high contrast, high gloss.</p> 	<p>100 speed (emulsion toward front screen) 200 speed (emulsion toward back screen)</p> <p>Equine Maximum detail orthopedic radiography (must have high frequency portable)</p> <p>Small Animal Table-top Avian, Exotic, Dental and Orthopedic radiography (Maximum detail)</p>	<p>200 speed (emulsion toward front screen) 300 speed (emulsion toward back screen)</p> <p>Equine High detail orthopedic radiography (must have high frequency portable)</p> <p>Small Animal Table-top Avian, Exotic, Dental and Orthopedic radiography (High detail)</p>

Features	Advantages	Benefits
<ul style="list-style-type: none"> • Double emulsion construction 	<ul style="list-style-type: none"> • Decreased exposure time 	<ul style="list-style-type: none"> • Minimizes effects of patient motion, reduces unnecessary radiation exposure, extends X-ray tube life, can be used with portable machines
<ul style="list-style-type: none"> • Zero crossover technology 	<ul style="list-style-type: none"> • Prevents light crossover, improves detail, decreased 'noise' 	<ul style="list-style-type: none"> • Increased diagnostic information • Fewer retakes • Reduce cost • Reduce staff and patient exposure
<ul style="list-style-type: none"> • Superior image detail 	<ul style="list-style-type: none"> • Reduce retakes • More diagnostic information 	<ul style="list-style-type: none"> • Saves time and money • Increased diagnostic ability • One film for all views
<ul style="list-style-type: none"> • Safe for all processing conditions 	<ul style="list-style-type: none"> • Convenient 	<ul style="list-style-type: none"> • No special equipment required
<ul style="list-style-type: none"> • Double emulsion construction 	<ul style="list-style-type: none"> • Decreased exposure time 	<ul style="list-style-type: none"> • Minimizes effects of patient motion, reduces unnecessary radiation exposure, extends X-ray tube life, can be used with portable machines
<ul style="list-style-type: none"> • Zero crossover technology 	<ul style="list-style-type: none"> • Prevents light crossover, improves detail, decreased 'noise' • Provides wide range of over/under exposure tolerance 	<ul style="list-style-type: none"> • Increased diagnostic information • Fewer retakes • Reduce cost • Reduce staff & patient exposure
<ul style="list-style-type: none"> • Wide latitude film 	<ul style="list-style-type: none"> • Provides balanced image visibility of soft tissue and bone • Reduce retakes • More diagnostic information 	<ul style="list-style-type: none"> • One film for all views
<ul style="list-style-type: none"> • Safe for all processing conditions 	<ul style="list-style-type: none"> • Convenient 	<ul style="list-style-type: none"> • No special equipment required
<ul style="list-style-type: none"> • Unique single emulsion construction 	<ul style="list-style-type: none"> • Faster speed than other single emulsion films • High contrast, high gloss • High detail for bone and soft tissue 	<ul style="list-style-type: none"> • Early, accurate information • Shorter exposure times
<ul style="list-style-type: none"> • Anti-halation layer 	<ul style="list-style-type: none"> • Prevents light crossover from back screen 	<ul style="list-style-type: none"> • Sharp, detailed radiographic images
<ul style="list-style-type: none"> • Superior image detail 	<ul style="list-style-type: none"> • Reduce retakes • More diagnostic information 	<ul style="list-style-type: none"> • Saves time and money • Increased diagnostic ability
<ul style="list-style-type: none"> • Safe for most processing conditions* 	<ul style="list-style-type: none"> • Convenient 	<ul style="list-style-type: none"> • No special equipment required

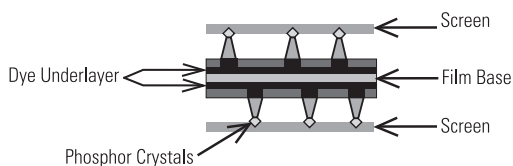
* Can be used in most manual and automatic processors. "Quick" or 45-second processors are not recommended for single emulsion film.

Cassettes & Intensifying Screens

Description

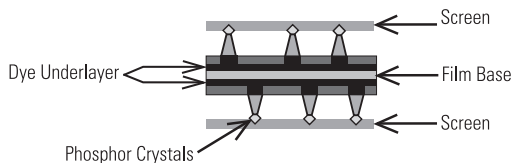
3M Ultra Detail Plus is a state-of-the-art, green-sensitive, high speed, high contrast, double emulsion film that utilizes an exclusive dye underlayer to deliver maximum detail at a minimal exposure.

Double Emulsion Construction



3M Ultimate 2000 minimizes the effects of patient motion to deliver accurate diagnostic information. This state-of-the-art, green-sensitive, high speed, medium contrast double emulsion film utilizes an exclusive dye underlayer to deliver maximum detail for a precise evaluation with minimal exposure.

Double Emulsion Construction



For the veterinarian who prefers a high contrast, high detail, high gloss film, use 3M SE+ Veterinary X-ray Film. This green-sensitive, medium speed, single-coated film provides ultra-sharp detail and high contrast for outstanding images of bone and soft tissue.

Single Emulsion Construction



Hardback Cassettes

The cassette is critical in achieving quality radiographs consistently, year after year. 3M hardback cassettes are precisely designed and engineered to guard against the loss of screen-film contact and light leaks that degrade image quality. This premium cassette is light and easy to use for high productivity from start to finish. The 3M hardback cassette is built tough for long, reliable service to meet the unique challenges of veterinary radiography.

Vinyl Cassettes

The 3M™ Vinyl Cassette is the lightweight alternative to conventional hardback cassettes. Specifically designed with the equine practitioner in mind, the 3M Vinyl Cassettes are easy-to-use for a multitude of radiographs at remote locations. Vinyl cassettes must be used with a 3M™ Contact Tunnel to maintain film/screen contact and image integrity. Available in 8x10 inch size only.

Screen Options

3M Asymetrix Detail Screens

Designed for slower, detail radiography

- Equine: Recommended for high frequency portable X-ray machines
- Small animal: Excellent table-top radiography

3M Asymetrix Fast Detail Screens

Designed for faster radiography with detail

- Equine: Recommended for non-high frequency portable X-ray machines
- Small animal: Ideal for radiography of large anatomy/grid (bucky) radiography



When you consider the cost of X-ray films, be sure to also consider the cost of retakes.

The real cost of small animal radiographs

OVERHEAD COST	PER FILM
Film (average cost per sheet)	\$ 2.30
Chemistry	\$.50
Veterinarian's time (\$100 per hour/15 minutes per radiograph, plus one technician at \$3.00)	\$28.00
Technician's time (\$12 per hour, 15 minutes per radiograph, \$3.00 x 2 technicians)	\$ 6.00
Facilities, Maintenance, Utilities (Annual radiology cost: 5% of \$36,000)	\$.15
Cassettes/screens (Annual cost: \$600) [\$3,000/5 year depreciation]	\$.60
Processor (Annual cost: \$1,000) [\$5,000/5 year depreciation]	\$ 1.00
X-ray Machine (Annual cost: \$2,400) [\$15,000/5 year depreciation]	\$ 3.00

Total cost per radiograph	
• Technician-produced	\$ 13.55
• Veterinarian assisted	\$ 35.55

The real cost of large animal radiographs

OVERHEAD COST	PER FILM
Film (average cost per sheet)	\$ 1.10
Chemistry	\$.40
Veterinarian's time (\$100 per hour/15 minutes per 5 radiographs)	\$5.00
Technician's time (\$12 per hour, 20 minutes per 5 radiographs)	\$.80
Facilities, Maintenance, Utilities (Annual radiology cost: 5% of \$24,000)	\$.10
Cassettes/screens (Annual cost: \$900) [\$4,500/5 year depreciation]	\$.90
Processor (Annual cost: \$1,000) [\$5,000/5 year depreciation]	\$ 1.00
X-ray Machine (Annual cost: \$1,200) [\$10,000/5 year depreciation]	\$ 2.00

Total cost per radiograph	
• Veterinarian-produced	\$ 10.50
• Veterinarian with assistant-produced	\$ 11.30

Ask your 3M distributor about the complete line of 3M X-ray accessories and supplies.



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