Personal Radiation Protection

RadSafe™ personal radiation protective apparel, equipment, and eyewear is setting new standards in innovative and reliable protection for healthcare professionals around the world.
# Table of Contents

- **Introduction**
- **Apparel Care, Storage, and Maintenance**
- **Mobile and Suspended Shielding**
- **Management Tools and Services**
- **Eyewear**
- **Other Apparel**
- **Aprons**
- **Compliance Information**
Radiation Protection Apparel
Now Being Produced in Australia

RadSafe™ personal radiation protective apparel and eye wear is setting new standards in innovative and reliable protection for healthcare professionals around the world.

Manufactured to exceptionally high standards, RadSafe™ aprons are available in a number of ergonomic and gender-specific designs and in a full range of sizes to maximise flexibility and comfort. This means that, if required, RadSafe™ aprons may be safely and comfortably worn more frequently, or for longer periods. Of course, users are also able to choose from a number of protective material and lead equivalency options for reliable protection - first time, every time.

To compliment our protective apparel ranges and help users get the most from their investment, Imaging Solutions also provides a variety of support products, tools, services and value-added benefits. RadSafe™ aprons, for instance, are ideal for use with RadTrack™, our online apparel management system. Equally, our RadStore™ storage products and RadFresh™ cleaning and care solutions are purpose-built for use with our apparel and will help users get years more use.

The RadSafe range of Personal Radiation Protective Apparel is now available to be manufactured in Australia.

Our commitment is to deliver ‘Optimum Quality, Compliance, and Protection you can depend on.’

RadSafe™ personal radiation protective apparel and eye wear is setting new standards in innovative and reliable protection for healthcare professionals around the world.

Manufactured to exceptionally high standards, RadSafe™ aprons are available in a number of ergonomic and gender-specific designs and in a full range of sizes to maximise flexibility and comfort. This means that, if required, RadSafe™ aprons may be safely and comfortably worn more frequently, or for longer periods. Of course, users are also able to choose from a number of protective material and lead equivalency options for reliable protection - first time, every time.

To compliment our protective apparel ranges and help users get the most from their investment, Imaging Solutions also provides a variety of support products, tools, services and value-added benefits. RadSafe™ aprons, for instance, are ideal for use with RadTrack™, our online apparel management system. Equally, our RadStore™ storage products and RadFresh™ cleaning and care solutions are purpose-built for use with our apparel and will help users get years more use.

The RadSafe range of Personal Radiation Protective Apparel is now available to be manufactured in Australia.

Our commitment is to deliver ‘Optimum Quality, Compliance, and Protection you can depend on.’

RadSafe™ personal radiation protective apparel and eye wear is setting new standards in innovative and reliable protection for healthcare professionals around the world.

Manufactured to exceptionally high standards, RadSafe™ aprons are available in a number of ergonomic and gender-specific designs and in a full range of sizes to maximise flexibility and comfort. This means that, if required, RadSafe™ aprons may be safely and comfortably worn more frequently, or for longer periods. Of course, users are also able to choose from a number of protective material and lead equivalency options for reliable protection - first time, every time.

To compliment our protective apparel ranges and help users get the most from their investment, Imaging Solutions also provides a variety of support products, tools, services and value-added benefits. RadSafe™ aprons, for instance, are ideal for use with RadTrack™, our online apparel management system. Equally, our RadStore™ storage products and RadFresh™ cleaning and care solutions are purpose-built for use with our apparel and will help users get years more use.

The RadSafe range of Personal Radiation Protective Apparel is now available to be manufactured in Australia.

Our commitment is to deliver ‘Optimum Quality, Compliance, and Protection you can depend on.’
Lead Equivalency Explained

What is lead equivalency or a ‘Pb’ rating?

A ‘Pb’ rating refers to an item having the equivalent protection of a sheet of lead the same thickness in mm. Thus, a 0.35 Pb rating offers the same protection as a sheet of lead 0.35 mm thick. The higher the rating, the heavier the product. For example, a 0.35 Pb apron is lighter but provides less protection than a 0.50 Pb apron.

What is a ‘front’ or ‘back’ protection rating?

Protective aprons come in styles that are either front protection or full protection. Front protection aprons have only a single front rating while full protection aprons come with both a front and back rating.

See the diagrams below for further explanation.

What is the best lead equivalency?

This depends on how long an apron is worn, the user’s function and whether he or she is working in close proximity to a radiation source. These factors, along with personal preference, are likely to determine the balance between weight and protection desired. An apron with a 0.35 Pb rating stops approximately 85% of scatter radiation at standard hospital energy levels. A 0.50 Pb rated apron will stop approximately 95%.

As a general rule, Imaging Solutions recommends using aprons rated 0.50 Pb front protection and 0.25 to 0.30 Pb back protection (where back protection is required). Professionals working close to a radiation source for long periods should opt for a 0.50 Pb rated apron. If in doubt, check your local standards and guidelines for prescribed levels or contact your local radiation safety officer.

Some full protection aprons use panels that cross-over one another. Does this mean the specified rating applies to the single panel area or the overlapping area?

The answer is both - depending on the type of cross-over and the manufacturer. Due to the ability to achieve full cross-over coverage on skirts, most manufacturers use cross over panels at the front of skirts to achieve specified protection levels.

For vests, the situation is not as consistent. Some manufacturers follow a similar method. RadSafe® vests however, use individual panels with the specified protection level and create double the protection in cross-over area. This difference is critical if the vest is not a perfect fit, as the wearer will still be guaranteed at least the specified level of protection.

Why are RadSafe® aprons made in this way?

Vests do not always fit the wearer as well as skirts and are therefore more likely not to have cross-over coverage of the entire front area - even if the vest was designed to accomplish this. It all comes down to weight versus ratio - the lighter the apron, the less protection there is.

When it comes to the safety of medical professionals, RadSafe® products take no chances! See the diagrams above and to the left for further explanation.
RadSafe® Protective Aprons

All RadSafe® protective aprons are made from superior quality materials using industry-best manufacturing techniques. Our range of full and front protection styles are available in a number of designs as well as gender, size, core material, outer colour/pattern options to ensure you can choose a comfortable and fit-for-purpose apron. RadSafe®... simply a better protective apron!

**Back Support Apron**

- 6” / 15cm wide back support belt
- Comfortable shoulder pads and double welt pockets
- Buckles in front and back shoulder Velcro strap

Back Support Apron RS1-LSF

**Urology Apron**

- Three lower front panels for maximum comfort and functionality.
- Genuine VELCRO™ brand closures
- Comfortable shoulder pads
- Double welt pockets

Urology Apron RS1-TFA

---

IMAGING Solutions
**Comfortwear Apron**

- Built-in orthopaedic elastic panels for lower back support
- Comfortable shoulder pads and double welt pockets

**Surgical Drop-Away Apron**

- Shoulder release tabs for quick drop-away without breaking sterile field
- Comfortable shoulder pads and double welt pockets
- VELCRO™ brand closures at top of both shoulders
- Back attaches with one VELCRO™ brand strap
- Free one line embroidery included
Quickwear Apron

- Comfortable shoulder pads and double welt pockets
- Attaches in front with VELCRO™ brand straps

**Quickwear Apron**

**RS1-CBV**

Reverse Vest & Skirt Apron

- Reverse vest and skirt with solid front panels incorporating shoulder and side VELCRO™ closures on vests and an elastic skirt back system on skirts
- Comfortable shoulder pads and double welt pockets
- Adjustable skirt belt and VELCRO™ brand closure
- Elastic back support panel in skirt

**Reverse Vest & Skirt Apron**

**RS1-RVAS**

**APRONS**

**IMAGING Solutions**
**Vest & Skirt Back Support Apron**

- Combines the features of the standard Vest & Skirt design with the added support of our Back Support Apron.
- Partial vest crossover with each front panel providing the specified protection
- Built in 6”/15 cm orthopaedic elastic back support belt for lower back support
- Comfortable shoulder pads and double welt pockets
- Elastic lower back support panel in skirt
- Vests and skirts can be purchased separately

Vest & Skirt Back Support Apron RS1-LVAS

**Wrap Around Back Support Apron**

- 6”/15cm wide orthopaedic elastic back for lower back support and to lift weight from the shoulders.
- Comfortable shoulder pads and double welt pockets

Wrap Around Back Support Apron RS1-LSW
Vest & Skirt Comfortwear Apron

- Combines the features of the standard Vest & Skirt design with the added comfort of our Comfortwear Apron.
- Partial vest crossover with each front panel providing the specified protection
- Built-in orthopaedic elastic panels with genuine VELCRO™ brand closures
- Comfortable shoulder pads and double welt pockets
- Elastic lower back support panel in skirt
- Vests and skirts can be purchased separately

Vest & Skirt Apron

- Partial vest crossover with each front panel providing the specified protection
- Genuine VELCRO™ brand closures
- Comfortable shoulder pads and double welt pockets
- Elastic lower back support panel in skirt
- Vests and skirts can be purchased separately
Specialty Aprons

**Dental Apron**
Specifically made for patient use in dentistry, our dental aprons come in several styles and sizes.

<table>
<thead>
<tr>
<th>Gender</th>
<th>Unisex</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protective Material</td>
<td>RadSafe Inner Core Material</td>
</tr>
<tr>
<td>Lead Equivalency</td>
<td>0.50 Pb</td>
</tr>
</tbody>
</table>

Dental Apron w/ Thyroid - Adult
- PT1-APDTM9050
Dental Apron w/ Thyroid - Children
- PT1-APDTM7040
Dental Apron w/o Thyroid - Adult 90 cm
- PT1-APDA

**Half Apron**
Designed to provide excellent protection in applications where lower body protection is required. Easy to fit and offers excellent comfort.

<table>
<thead>
<tr>
<th>Gender</th>
<th>Unisex</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protective Material</td>
<td>RadSafe Inner Core Material</td>
</tr>
<tr>
<td>Lead Equivalency</td>
<td>0.50 Pb</td>
</tr>
</tbody>
</table>

RadSafe® Half Apron - Small
- PT1-A803
RadSafe® Half Apron - Medium
- PT1-A802
RadSafe® Half Apron - Large
- PT1-A801

**Patient Protection Pelvic Apron**
- Choice of Velcro easy on/off convenience or 5cm buckle closure
- Comfortable, durable, patient friendly design
- Traditional hook and loop Velcro type closures
- Wide 5 cm webbing straps
- Positive and secure closure
- Maximum patient protection
- Available in your choice of colour

<table>
<thead>
<tr>
<th>Size</th>
<th>Small (30 x 25 cm), Medium (33 x 30 cm) or Large (45 x 37 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protective Material</td>
<td>RadSafe Inner Core Material</td>
</tr>
<tr>
<td>Lead Equivalency</td>
<td>0.50 Pb</td>
</tr>
</tbody>
</table>

Patient Protection Pelvic Apron - Small
- PT1-APPA-S
Patient Protection Pelvic Apron - Medium
- PT1-APPA-M
Patient Protection Pelvic Apron - Large
- PT1-APPA-L

**Gonad / Ovarian Shield Set**
The gonad/ovarian shield belt system comes complete with 4 interchangeable shields and an adjustable Velcro belt.

<table>
<thead>
<tr>
<th>Gender</th>
<th>Unisex</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protective Material</td>
<td>RadSafe Inner Core Material</td>
</tr>
<tr>
<td>Lead Equivalency</td>
<td>0.50 Pb</td>
</tr>
</tbody>
</table>

Gonad/ Ovarian Shield Belt System
- PT1-822BBV
AEGIS® Protective Aprons

All RadSafe® protective aprons are made from superior quality materials using industry-best manufacturing techniques. Our range of full and front protection styles are available in a number of designs as well as gender, size, core material, outer colour/pattern options to ensure you can choose a comfortable and fit-for-purpose apron. RadSafe®... simply a better protective apron!

Performance

With the Aegis™ line, we have re-imagined all aspects of current radiation protection products. Every product in the line has been built from the ground up to blend style, comfort and protection. The Aegis™ line is designed to take radiation protection to the highest level.

Simplicity

Aegis™ aprons are available in our most popular styles; Vest and Skirt, Comfortwear and Wrap Around Back Support. There is also a range of accessories available including thyroid collars, sleeves and smart caps that ideally compliment our core apron range (see the accessories section of this catalogue for full information).

Fabric Two-Tone Colour Block Design Options

Aegis™ outer fabrics are currently available in eleven different colour options, all of which have been custom created for the Aegis™ line.

Outstanding Comfort

Every Aegis™ apron has been redesigned from the ground up to make sizing simple and accurate. We teamed up with a professional pattern maker to create the best fitting aprons available, eliminating the need for custom sizing. This new and accurate sizing makes it easy to order a good fitting apron.

Advanced Outer Fabric

The new Aegis™ outer fabric is the softest fabric you will have ever felt on a protective apron. Exclusive to Imaging Solutions it is:

- Made with bacterial resistant qualities that make the fabric ideal for healthcare environments.
- Waterproof to not only protect core protective materials but also make periodic cleaning quick and easy.
- Abrasion resistant results in an apparel item that is tougher and lasts longer.
- Flame resistant providing a safer option if working in hazardous or high heat environments.
- Soft touch fabric which provides comfort with a snug and secure fit.
AEGIS® Flexback

- Thyroid Collar Included
- Moisture Wicking Fabric
- RadTrack Compatible
- 0.25, 0.35 and 0.50 Pb
- Male and Female Sizes
- XS, S, M, L, XL, XXL or Custom

The AEGIS Flexback Apron is an extremely comfortable front protection design. Lift the weight off your shoulders and support your lower back with criss-crossing back panels. Shoulder pads are thickened for extra comfort, chest pocket included as standard. Optional shoulder straps are also available upon request.

Flexback Apron RS1-EBA

AEGIS® Vest & Skirt

- Thyroid Collar Included
- Moisture Wicking Fabric
- RadTrack Compatible
- 0.25, 0.35 and 0.50 Pb
- Male and Female Sizes
- XS, S, M, L, XL, XXL or Custom

Combines the features of the standard Vest & Skirt design with the added support of our Back Support Apron. Partial vest crossover with each front panel providing the specified protection. Built in 6” / 15 cm orthopaedic elastic back support belt for lower back support. Comfortable shoulder pads and double welt pockets. Elastic lower back support panel in skirt. Vests and skirts can be purchased separately.

Vest & Skirt Back Support Apron RS1-LVAS
AEGIS® Wrap Around

- Thyroid Collar Included
- Moisture Wicking Fabric
- RadTrack Compatible
- 0.25, 0.35 and 0.50 Pb
- Male and Female Sizes
- XS, S, M, L, XL, XXL or Custom

• 6”/15cm wide orthopaedic elastic back for lower back support and to lift weight from the shoulders.
• Comfortable shoulder pads and double welt pockets

Wrap Around Back Relief Apron RS1-LSW
Apron Fitting and Options

How to Measure for Correct Fit

Below is a basic step-by-step guide on how to measure someone for a correct fit of a radiation protective apron. On the next page we have also provided a size guide so you can use the measurements you take to determine the correct size.

**Chest Measurement**
Measure around the largest circumference of the chest / bust area, keeping the tape parallel to the floor and with the person’s arms at their sides.

**Waist Measurement**
Measure around the smallest circumference of the torso. The waist level may dip in at the back.

**Hips Measurement**
Measure around the largest circumference of the hips and buttocks with the tape parallel to the floor; generally 20-23cm down from the waist measurement.

**Front Apron Length Measurement**
Measure from the top of the shoulder down over the chest / bust (nipple) to the desired length. Do not contour the tape measure in under the bust.

**Vest Length Measurement**
Measure from the top of the shoulder down over the chest / bust (nipple) to the desired length. Do not contour the tape measure in under the bust.

**Skirt Length Measurement**
Measure from the top of the pant line (waist) and over the outside of the hip down to the desired length.
**Apron Sizing Chart**

### Male Sizing

<table>
<thead>
<tr>
<th>Size</th>
<th>Vest Length (C)</th>
<th>Skirt Length (D)</th>
<th>Front Length (E)</th>
<th>Front Width (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XS</td>
<td>61 cm</td>
<td>61 cm</td>
<td>102 cm</td>
<td>51 cm</td>
</tr>
<tr>
<td>S</td>
<td>61 cm</td>
<td>61 cm</td>
<td>102 cm</td>
<td>53.5 cm</td>
</tr>
<tr>
<td>M</td>
<td>61 cm</td>
<td>61 cm</td>
<td>102 cm</td>
<td>56 cm</td>
</tr>
<tr>
<td>L</td>
<td>66 cm</td>
<td>61 cm</td>
<td>108 cm</td>
<td>61 cm</td>
</tr>
<tr>
<td>XL</td>
<td>66 cm</td>
<td>61 cm</td>
<td>108 cm</td>
<td>66.5 cm</td>
</tr>
<tr>
<td>XXL</td>
<td>66 cm</td>
<td>61 cm</td>
<td>108 cm</td>
<td>71.5 cm</td>
</tr>
<tr>
<td>XXXL</td>
<td>66 cm</td>
<td>61 cm</td>
<td>108 cm</td>
<td>76.5 cm</td>
</tr>
</tbody>
</table>

### Apron Sizing

### Body Sizing

<table>
<thead>
<tr>
<th>Size</th>
<th>Height</th>
<th>Chest</th>
<th>Waist</th>
<th>Hips</th>
</tr>
</thead>
<tbody>
<tr>
<td>XS</td>
<td>157.5 cm</td>
<td>86.5 cm</td>
<td>71.5 cm</td>
<td>86.5 cm</td>
</tr>
<tr>
<td>S</td>
<td>165 cm</td>
<td>99.5 cm</td>
<td>86.5 cm</td>
<td>91.5 cm</td>
</tr>
<tr>
<td>M</td>
<td>170 cm</td>
<td>107 cm</td>
<td>97 cm</td>
<td>102 cm</td>
</tr>
<tr>
<td>L</td>
<td>180 cm</td>
<td>117 cm</td>
<td>107 cm</td>
<td>112 cm</td>
</tr>
<tr>
<td>XL</td>
<td>188 cm</td>
<td>127 cm</td>
<td>117 cm</td>
<td>122 cm</td>
</tr>
<tr>
<td>XXL</td>
<td>190.5 cm</td>
<td>137.5 cm</td>
<td>130 cm</td>
<td>137.5 cm</td>
</tr>
<tr>
<td>XXXL</td>
<td>195.58 cm</td>
<td>145 cm</td>
<td>142.5 cm</td>
<td>145 cm</td>
</tr>
</tbody>
</table>
Female Sizing

**Apron Sizing**

<table>
<thead>
<tr>
<th>Size</th>
<th>Vest Length (C)</th>
<th>Skirt Length (D)</th>
<th>Front Length (E)</th>
<th>Front Width (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XS</td>
<td>56 cm</td>
<td>56 cm</td>
<td>97 cm</td>
<td>48 cm</td>
</tr>
<tr>
<td>S</td>
<td>56 cm</td>
<td>56 cm</td>
<td>97 cm</td>
<td>51 cm</td>
</tr>
<tr>
<td>M</td>
<td>56 cm</td>
<td>56 cm</td>
<td>97 cm</td>
<td>53.5 cm</td>
</tr>
<tr>
<td>L</td>
<td>61 cm</td>
<td>61 cm</td>
<td>103 cm</td>
<td>56 cm</td>
</tr>
<tr>
<td>XL</td>
<td>61 cm</td>
<td>61 cm</td>
<td>103 cm</td>
<td>58.5 cm</td>
</tr>
<tr>
<td>XXL</td>
<td>61 cm</td>
<td>61 cm</td>
<td>103 cm</td>
<td>61 cm</td>
</tr>
<tr>
<td>XXXL</td>
<td>61 cm</td>
<td>61 cm</td>
<td>103 cm</td>
<td>69 cm</td>
</tr>
</tbody>
</table>

**Body Sizing**

<table>
<thead>
<tr>
<th>Size</th>
<th>Height</th>
<th>Chest</th>
<th>Waist</th>
<th>Hips</th>
</tr>
</thead>
<tbody>
<tr>
<td>XS</td>
<td>155 cm</td>
<td>84 cm</td>
<td>63.5 cm</td>
<td>89 cm</td>
</tr>
<tr>
<td>S</td>
<td>157.5 cm</td>
<td>89 cm</td>
<td>69 cm</td>
<td>94 cm</td>
</tr>
<tr>
<td>M</td>
<td>165 cm</td>
<td>94 cm</td>
<td>74 cm</td>
<td>99.5 cm</td>
</tr>
<tr>
<td>L</td>
<td>173 cm</td>
<td>102 cm</td>
<td>81.5 cm</td>
<td>107 cm</td>
</tr>
<tr>
<td>XL</td>
<td>178 cm</td>
<td>109 cm</td>
<td>88 cm</td>
<td>117 cm</td>
</tr>
<tr>
<td>XXL</td>
<td>180 cm</td>
<td>117 cm</td>
<td>102 cm</td>
<td>122 cm</td>
</tr>
<tr>
<td>XXXL</td>
<td>180 cm</td>
<td>131 cm</td>
<td>110.5 cm</td>
<td>132.5 cm</td>
</tr>
</tbody>
</table>
RadSafe™ Apparel Fabric
Colour and Pattern Options

Imaging Solutions offers a range of outer fabric options including standard colour /
patterns, water-proof colours, exclusive patterns as well as a variety of premium colours /
patterns and customer made fabrics available at an extra cost.

Standard Nylon Colours

- Black Nylon
- Burgundy Nylon
- Forest Green Nylon
- Grey Nylon
- Green Nylon
- Hot Pink Nylon
- Light Royal Nylon
- Navy Nylon
- Neon Green Nylon
- Orange Nylon
- Purple Nylon
- Red Nylon
- Rose Nylon
- Royal Nylon
- Tan Nylon
- Teal Nylon
- Yellow Nylon

Ripstop Colours

- Royal Blue Ripstop
- Silver Ripstop
- Black Ripstop
- Burgundy Ripstop
- Chocolate Ripstop
- Brown Ripstop
- Red Ripstop
- Green Ripstop
- Navy Ripstop
- Purple Ripstop
Designer Patterns

- 70s Flowers
- Animal River
- Tropic Watercolours
- Blue Flame
- Blue Plaid
- Brown Camo
- Green Camo
- Cosmo
- Yellow Camo
- Pink Camo
- Grey Flowers
- Jungle Dream
- Butterfly
- Lu Lu
- Magenta Flowers
- Neo Tie Dye
- Paw Prints
- Hawaiian
- Plaid
- Red Dalmation
- Sheep
- Splash
- Surf Wax
- Snake Skin
- Tiger
- Zebra
- Leopard
- Animal Spots
Thyroid Collar W/ Binding

- Fully adjustable and comfortable fit
- Easy on / easy off convenience with VELCRO™ fasteners
- Optional monogram and optional attachment to apron

| RadSafe® Thyroid Collar With Binding Small | PT1-APTC-S |
| RadSafe® Thyroid Collar With Binding Medium | PT1-APTC-M |
| RadSafe® Thyroid Collar With Binding Large | PT1-APTC-L |

Disposable Thyroid Covers

Imaging Solutions’ disposable thyroid covers are designed to cover your RadSafe® thyroid collars and protect them and yourself from all manners of substance.

Disposable Thyroid Cover (100 Pack) | IS1-DTC-V1

Apron Sleeve

This optional sleeve is available for all apron styles and protects the upper arm and shoulder from direct beam and scatter radiation. It can be attached as a snap on or directly sewn on.

<table>
<thead>
<tr>
<th>Protective Material</th>
<th>RadSafe Inner Core Material</th>
<th>Lead Equivalency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snap-on Sleeve</td>
<td>PT1-APSOLV</td>
<td>0.50 Pb</td>
</tr>
<tr>
<td>Sewn-in Sleeve</td>
<td>PT1-APSLV</td>
<td></td>
</tr>
</tbody>
</table>

Mandarin Thyroid Collar

- Fully adjustable and comfortable fit
- Easy on / easy off convenience with VELCRO™ fasteners
- Optional embroidery
- Available in small, medium and large

| Mandarin Thyroid Collar - Small | PT1-APTCPL1-S |
| Mandarin Thyroid Collar - Medium | PT1-APTCPL1-M |
| Mandarin Thyroid Collar - Large | PT1-APTCPL1-L |

Shin Guards

- The shin guards offer long bone (leg) protection. They come standard with velcro straps for easy adjustment. Closure by Velcro straps.

<table>
<thead>
<tr>
<th>Protective Material</th>
<th>RadSafe Inner Core Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Equivalency</td>
<td>0.50 Pb</td>
</tr>
<tr>
<td>Dimensions (WxL)</td>
<td>Small (13 x 9” / 33 x 22 cm)</td>
</tr>
<tr>
<td></td>
<td>Medium (14 x 10” / 35 x 25 cm)</td>
</tr>
<tr>
<td></td>
<td>Large (16 x 12” / 41 x 30 cm)</td>
</tr>
</tbody>
</table>

| Shin Guards Small | PT1-APSG-S |
| Shin Guards Medium | PT1-APSG-M |
| Shin Guards Large | PT1-APSG-L |
Gloves and Mittens

Take Care of Your Skin by Using Biocompatible Gloves

The PROGUARD™ Radiation Reducing gloves have the same anatomic shape, size, softness, elasticity, comfort, and dexterity typical of surgical gloves.

Notwithstanding the presence of natural rubber latex and lead oxide in PROGUARD™ gloves, the biocompatibility tests for cutaneous irritation, allergic sensitisation and proteins content give the following results:

<table>
<thead>
<tr>
<th>Test</th>
<th>Standards</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutaneous Irritation</td>
<td>0 = No erythema / edema</td>
<td>Index: 0.0</td>
</tr>
<tr>
<td></td>
<td>4 = Severe erythema / edema</td>
<td></td>
</tr>
<tr>
<td>Allergic Sensitisation</td>
<td>0 = No erythema / edema</td>
<td>Index: 0.0</td>
</tr>
<tr>
<td></td>
<td>4 = Severe erythema / edema</td>
<td></td>
</tr>
<tr>
<td>Proteins Residuals</td>
<td>ASTM D 5712</td>
<td>&lt; 50 µg/gm</td>
</tr>
</tbody>
</table>

100% Tested: For a quality level below AQL 1.0

Available Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Thickness</th>
<th>Lead Equivalence</th>
</tr>
</thead>
<tbody>
<tr>
<td>RR-1</td>
<td>0.22 mm</td>
<td>0.016 mm</td>
</tr>
<tr>
<td>RR-2</td>
<td>0.30 mm</td>
<td>0.022 mm</td>
</tr>
<tr>
<td>RR-3</td>
<td>0.60 mm</td>
<td>0.032 mm</td>
</tr>
</tbody>
</table>

Sizes Available

RR1 and RR2: 6, 6 1/2, 7, 7 1/2, 8, 8 1/2, 9.
RR3: 7, 7 1/2, 8, 8 1/2, 9, 10.

Packing

RR1 and RR2: 1 pair per pouch; 5 pairs per box; 10 boxes per carton.
RR3: 1 pair per pouch; 3 pairs per box; 10 boxes per carton.

Sterilisation

Ethylene Oxide

The Re-usability of the glove and the instructions for use are set out in the Descriptive Note inside every box.

Reduce Your Exposure Through High Attenuation Levels

<table>
<thead>
<tr>
<th>Model</th>
<th>60 KVP</th>
<th>80 KVP</th>
<th>100 KVP</th>
<th>120 KVP</th>
</tr>
</thead>
<tbody>
<tr>
<td>RR-1</td>
<td>45%</td>
<td>35%</td>
<td>26%</td>
<td>23%</td>
</tr>
<tr>
<td>RR-2</td>
<td>55%</td>
<td>43%</td>
<td>35%</td>
<td>31%</td>
</tr>
<tr>
<td>RR-3</td>
<td>81%</td>
<td>69%</td>
<td>62%</td>
<td>59%</td>
</tr>
</tbody>
</table>

Ideal where the user is exposed to ionising radiations as may be encountered in the following types of procedures:

- Cardiology
- Orthopaedics
- EP/Cath Lab
- Intensive Care
- Radiology
- Nuclear Medicine
- Haemodynamics
- Neuroradiology
- Urology
- Pain Management
- Endoscopy
- Resuscitation
Vinyl Lead Gloves

Seamless Lead Vinyl Gloves are a 15” one-piece dip-molded glove with supple vinyl cover and foam liner. Available in pairs or single gloves.

<table>
<thead>
<tr>
<th>Colours</th>
<th>Navy Blue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Equivalency</td>
<td>0.50 Pb</td>
</tr>
</tbody>
</table>

Vinyl Lead Glove JD1-100V

Angio Mitt

Our lead protection Angio Mitt is part of a wide selection of radiation shielding accessories. The angio mitt is a flexible mitt used to shield the hand, thus reducing exposure under direct x-ray. This mit can be used on either the right or left hand.

<table>
<thead>
<tr>
<th>Colours</th>
<th>See Swatches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Equivalency</td>
<td>0.50 Pb, 0.35 Pb and 0.25 Pb</td>
</tr>
</tbody>
</table>

Angio Mitt, Lead Glove PT1-APANGMIT

Worn Mitt

Our lead protection slit mitt is part of a wide selection of radiation shielding accessories. This lead glove has a lead protection for the top part of your hand and a slit on the bottom to allow for gripping.

<table>
<thead>
<tr>
<th>Colours</th>
<th>See Swatches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Equivalency</td>
<td>0.50 Pb, 0.35 Pb and 0.25 Pb</td>
</tr>
</tbody>
</table>

Worn Mitt, Lead Glove PT1-APSLMIT
Patient Protection

Attenurad CT Eye Shield

Designed for use in head and facial computed tomography scans, the Attenurad Eye Shield molds over the nasal bridge with the eye shield.

- Adhesive material ensures a tight seal
- 1 mm thick shield providing 50% dose savings to the eyes
- Good for adults and paediatrics

Patient Protection CT Eye Shield - 20 Pack FL1-ARE-4

Attenurad CT Breast Shield

The Attenurad CT Radioprotective Brassiere has been optimised to a thickness of 1 mm to provide maximum protection to breast tissue.

- 1 mm piece of bismuth providing 57% radiation attenuation
- No significant changes in image quality
- Impregnated synthetic rubber with additional foam offsets available

Patient Protection CT Breast Shield Medium FL1-ARB42
Patient Protection CT Breast Shield Large FL1-ARB53
Patient Protection CT Breast Shield Covers - 10 pack FL1-ARB-C

Attenurad Paediatric CT Shield

The Attenurad Paediatric CT Shield comes in four sizes and packs.

- 57% in-plane breast shielding for paediatric MDCT
- Minimal change in CT Image
- Offset foam base

Paediatric CT Shield - 1 Year, 8 Pack FL1-AR24X6
Paediatric CT Shield - 5 Year, 6 Pack FL1-AR28X8
Paediatric CT Shield - Neonate, 10 Pack FL1-AR14X5
Paediatric CT Shield - 10 Year, 4 Pack FL1-AR33X10

Attenurad CT Thyroid Shield

The Attenurad CT Thyroid Shield is designed to provide maximum protection to the radiosensitive thyroid gland.

- Curved notch in the center of the shield
- Adhesive backing holds the shield firm
- 1 mm thick providing 60% dose savings

Patient Protection CT Thyroid Shield - 10 Pack FL1-ART-4
**Radiation Protective Covers**

The covers are made from highly flexible radiation protective material with a suitable textile outer cover and can be cleaned like a conventional radiation protective apron. The exposure of the examiner can also be reduced, although to a lesser extent, when used in combination with other shields.

- Lead Equivalent Pb 0.50 mm
- Width 75 cm
- Box of 50 sterile, semi-transparent disposable covers

<table>
<thead>
<tr>
<th>Femoral Drape, with Cut-Out</th>
<th>ST-FS5AMM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radial Drape, without Cut-Out</td>
<td>ST-RZ5AMM</td>
</tr>
</tbody>
</table>

**ProGuard Disposable Eye and Thyroid Shield**

Significantly reduce and optimise the dose received by the lens during CT and general X-ray procedures. The built-in standoff ensures that image artefacts created by shielding are reduced to an absolute minimum.

For the eye shield, lens dose reduction provides approximately 40% attenuation in all CT scan configurations. For the thyroid shield, dose reduction is up to 60% during CT or general X-ray examinations at ranges of 50 kVp to 150 kVp.

They are made of barium sulphate and can be disposed of through normal waste procedures.

<table>
<thead>
<tr>
<th>Patient Protection CT Eye Shield</th>
<th>PT1-SHLDEYE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient Protection CT Thyroid Shield</td>
<td>PT1-SHLDTHY</td>
</tr>
</tbody>
</table>

**Radionex® AS100 Sterile Radiation Protective Drapes**

Radionex protective drapes consist of a lead-free, protective inner material, which can be simply disposed of after use. The application-specific designs of Radionex drapes provide perfect protection for the physician without influencing the way they work.

In addition, special adhesive strips on the backside of the drape allow for easy re-positioning to make sure it does not conflict with the imaging field. The outer material of Radionex is made of an absorbent fabric to keep fluids such as blood and saline.

These features make Radionex an easy addition to any physician’s radiation protection system, without noticing any difference in clinical procedure.

- Sterile / disposable – No cross contamination
- Lead free material – Environmentally friendly
- Dose reduction up to 95 %
- Supports ALARA radiation safety principle (as low as reasonable achievable)
- Repositionable – Does not affect physician’s work routine
- Fluid absorbent outer material
- Available in different levels of protection: Low/Medium/High
Protective Eyewear
Reducing Radiation Damage to Eyes

In a paper presented at The Radiological Society of North America (RSNA) in December 2004, specific findings were reported of radiation related eye damage in a group of 59 practicing interventional radiologists, ranging in age from 29 to 62, who were surveyed and examined.

“The researchers found that nearly half of the interventional radiologists screened had signs of radiation related lens changes. PSC cataracts were found in five (8%) of the 59 radiologists screened and 22 subjects (37%) showed small paracentral dot-like opacities in the PSC region of the lens, which is consistent with early signs of radiation damage.”

The complete paper is available online at: www.RSNANEWS.org.

The ionizing radiation associated with fluoroscopy in interventional and diagnostic imaging procedures can have damaging biological effects on many types of body tissue. Sometimes these effects take years to manifest themselves, in the form of conditions that can lead to impaired vision and even blindness. This delayed manifestation makes it difficult to recognize the harmful effects of radiation until the damage has already been done. Dosimetry studies have proven that x-ray protective glasses can effectively eliminate 90% of the scattered radiation to the eye. Clear acrylic barriers have equal dose reducing effects as well.

Source RSNANEWS.org RSNA News Hot Topic, 2004 Interventional Radiology Carries Occupational Risk for Cataracts
Why Wear Protective Lenses?

Dr. Ziv Haskal, Professor of Radiology and Director of Vascular and Interventional Radiology, New York Presbyterian Hospital-Columbia University New York, issued this advice to fellow interventional radiologists at the SIR 2004 meeting. He presented a small study that suggests interventional radiologists are at risk for posterior subcapsular cataract formation and later talked to Interventional News.

Ziv Haskal explained to Interventional News how the study investigating posterior subcapsular (PSC) cataract formation in interventional radiologists, conducted in association with Basil Woréul, a professor of radiation biology in ophthalmology and radiology, and ophthalmologist Dr Anna Junk, came about.

“It was a serendipitous event,” said Haskal, “a colleague of mine had come to have his eyes looked at because of another medical issue with them and met Dr Basil Woréul, who is a world renowned expert in radiation eye injury research. My colleague told me that he had been surprised to have been diagnosed with this (PSC cataract) by Dr Woréul.”

Dr Haskal’s colleague therefore advised him to get his eyes checked as well, “I went down to meet Basil Woréul, who it turns out is an ophthalmology researcher, but also has an appointment in the department of radiology in my own hospital. He had never heard of an interventional radiologist – like most people – so I talked to him about what we did and we created this study.”

Case Study: The effectiveness of lead lenses in reducing radiation exposure.

In a series of tests, optically ground prescription lenses of glass, leaded glass, and plastic were exposed to radiations that simulated routine angiography. Radiations transmitted through the lenses were measured. Results showed that plastic provided no protection, regular glass provided moderate protection and high lead content glass reduced radiation transmission by approximately 70%. The leaded glass that Imaging Solutions uses blocks 97% and up to 150kp.

Relatively high doses of radiation can damage the conjunctiva, iris, sciera and blood vessels of the retina. The lens of the eye, however, is the critical site, for it may sustain irreversible damage from a relatively low dose of radiation. Low doses will produce only a temporary reaction in the other ocular structures.

The sensitivity of the lens to radiation is felt to be due to the failure of normal cell replacement. The lens is surrounded by a capsule. On the anterior surface beneath this capsule is a layer of attended or cuboid cells which comprise the epithelium of the lens and allow for normal metabolism of the lens. At the peripheral border or equator of the lens, these cells become progressively elongated and are transformed into the structure of the lens proper. Von Sallman demonstrated that cytologic damage from radiation to the lens consists of a temporary cessation of mitosis, cell death, and occasional abnormal mitosis produce bizarre cells. Because of the enveloping capsule of the lens, these damaged or bizarre cells can’t be sloughed but instead are pushed or migrate to the posterior pole of the lens’ where early radiation-induced cataract is first clinically manifest. Subsequent changes may also be observed in the anterior pole, with progressive opacification of the cortex eventually forming a mature and non-specific cataract.

Until now the only protective devices have been heavy cumbersome lead goggles. These are generally not used because of inconvenience and discomfort. Commercially available prescription lenses for ordinary glasses are made of either plastic or glass and therefore offer no or inadequate protection. There are two basic types of glass lenses, and these differ significantly in lead content. Ordinary glass lenses called “crown glass” are used by most people. A less common glass, known to opticians as “hi-lite”, happens to have relatively high lead content which allows for a thinner lens than would otherwise be required. It is normally used as a substitute for extremely thick lenses.

The below experiment was designed to determine if significant protection from radiation is provided by wearing high lead content glass instead of ordinary glass or plastic lenses.

“An age-related cataract, the thing we think about conventionally, is in the front of the lens,” explains Dr Ziv Haskal, Professor of Radiology and Director of Vascular and Interventional Radiology, New York Presbyterian Hospital-Columbia University New York. These happen in the back of the lens, a completely different area. Radiation is not the only thing that causes this, people can have PSC cataracts from diabetes, from steroids etc., which is why it is important to look for these co-factors and the need for a large enough population to eliminate these.”

Asked what the natural occurrence of PSC cataracts was, Haskal replied, “That’s the tricky thing!” The accepted level under which radiologists are told they have no risk of cataracts is 200 rads (or 2,000 milligray). However, this appears to be a false threshold, and it is more likely to be a continuous spectrum of dosing. According to Haskal, the results of this study “exceed the expected amount for both age of practitioner and what would be expected for a baseline finding. It is more than we expected to find, and that is why made this conclusion where it increased risk.”

On future studies, Haskal said, “We have broad ideas, although we do not have grant support yet. We have compiled a team of people with particular expertise around this, including some very well known expert epidemiologists. As a result of this feasibility study, one has agreed to join us in planning the next step. We have some summer research planned, as well to do some better dosimetry for a practitioner. In other words, what people are actually getting exposed to at room time so we can do some better modelling of this.”
99 Ultralite

The 99 Ultralites are our premium wrap-around lead glasses model. They are designed to offer comfort and provide radiation protection for the entire eye area without the need of added side shield for lateral radiation exposure. The 99 has an optional soft rubber nosebridge which can provide extra support and increased comfort. The 99 lead glasses are one of most lightweight radiation glasses.

| Weight | 67.0 g |
| Lead Equivalency | 0.75 Pb |
| Rx Range | Reg +3.00 to -3.00 / Sm +3.00 to -5.00 |

99 Ultralite Black  PT1-99-BLK
99 Ultralite Cobalt Blue  PT1-99-BLU
99 Ultralite Silver  PT1-99-SLV

99 Alumilite

Our radiation protection model 99 Alumilite glasses are constructed out of lightweight aluminum & combined with adjustable non-slip nose pads to provide maximum comfort for all users. The glasses curved shape, flexible spring hinge temples, along with rubber tip temples assure a tight fit and provide splash radiation protection. Designed to protect the whole eye from radiation without the need of side shields.

| Weight | 65 g |
| Lead Equivalency | 0.75 Pb |
| Rx Range | +2.50 to -3.00 |

99 Alumilite Piano Red  PT1-99-AL-RED
99 Alumilite Piano Black  PT1-99-AL-BLK
99 Alumilite Piano Blue  PT1-99-AL-BLU
99 Alumilite Piano Silver  PT1-99-AL-SLV

9941 Ultralite

The 9941 Ultralites are one of our premium wrap-around lead glass models. Designed to offer comfort and provide protection for the entire eye area without the need of an added side shield for lateral exposure, this frame is ideal for those who have a high power prescription.

The 9941 also features a soft rubber nosebridge providing extra support for increased comfort and a super lightweight feeling. The curved front and temples with rubber detail assures a close secure fit.

| Weight | 64.0 g |
| Lead Equivalency | 0.75 Pb |
| Rx Range | Reg +3.00 to -5.00 / Sm +6.00 to -9.00 |

9941 Ultralite Black  PT1-9941-BLK
9941 Ultralite Blue  PT1-9941-BLU
9941 Ultralite Red  PT1-9941-RED
9941 Ultralite Silver  PT1-9941-SLV

9935 Ultralite

The 9935 Ultralite lead glasses are funky wrap-around frame designed to offer comfort and provide protection for the entire eye area without the need of an added side shield for lateral x-ray exposure. This frame is ideal for those who have smaller facial structures and features. Includes soft rubber nosebridge and curved front and temples with rubber tips assure a close, secure fit.

| Weight | 65.0 g |
| Lead Equivalency | 0.75 Pb |
| Rx Range | Reg +5.00 to -5.00 / Sm +5.00 to -5.00 |

9935 Ultralite Black  PT1-9935-BLK
9935 Ultralite Blue  PT1-9935-BLU
9935 Ultralite Red  PT1-9935-RED
9935 Ultralite Silver  PT1-9935-SLV
**89 Medium Fitover**

Originally designed to fit over prescription eyewear, these leaded fitovers are an excellent choice for those requiring good splash protection from radiation while wearing their normal prescription glasses. The large, clear side shields protect the user from lateral exposure while eliminating the “tunnel” effects of look-alikes. A great choice for larger splash radiation protection due to the oversized frames, the model 89 is a fraction smaller than the 90 and weighs less too.

- **Weight**: 104 g
- **Lead Equivalency**: 0.75 Pb

**MicroLite™ Fitover**

True “Fit-Over” architecture, featuring extra wide temple bars to accommodate existing eyewear and extra wide lenses for protection from scatter radiation.

- **Weight**: 81 g
- **Lead Equivalency**: 0.75 Pb

**53 Wrap**

The 53 Wrap lead glasses are constructed of extremely durable nylon that exhibits superior flexibility while minimising potential breakage. The molded wrap features provide maximum comfort with a full saddle bridge to distribute weight evenly over the nose while providing excellent peripheral vision with leaded glass side shields.

- **Weight**: 84 g
- **Lead Equivalency**: 0.75 Pb

**90 Large Fitover**

Originally designed to fit over prescription eyewear, model 90 leaded fitovers are an excellent choice for those requiring good splash protection from radiation. The large, clear side shields protect the user from lateral exposure while eliminating the “tunnel” effects of look-alikes.

- **Weight**: 112 g
- **Lead Equivalency**: 0.75 Pb

**42 Fitover**

The new 42 Fitover, like the 89 and 90 leaded Fitovers, is made to wear over prescription eyewear. The 42 Fitover features a smaller vertical dimension than other fitover styles as well as 0.5mm Pb lead sheeting for side shields, thus decreasing the weight by approx. 20%. The fitovers are an excellent choice for those requiring splash protection.

- **Weight**: 90 g
- **Lead Equivalency**: 0.75 Pb

**98 Superlite**

The 98 Superlite is our new lead glasses model. The Superlites are designed to offer comfort and provide protection for the entire eye area without the need of an added side shield for splash radiation exposure. The curved front and temples with rubber tips assures a close secure fit.

- **Weight**: 63 g
- **Lead Equivalency**: 0.75 Pb
Nike Brazen Leaded Glasses

Nike Brazen leaded glasses are designed to perform for you. Their style and modern look as well as their radiation splash protection provide adequate x-ray safety for most hospital settings. They feature a nylon frame, metal accents and ventilated nose bridge for anti fog functionality.

<table>
<thead>
<tr>
<th>Weight</th>
<th>74g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Equivalency</td>
<td>0.75 Pb</td>
</tr>
<tr>
<td>Rx Range</td>
<td>+3.50 to -3.50</td>
</tr>
</tbody>
</table>

Brazen Leaded (Matte Black with Silver) PT1-BR-572-095
Brazen Leaded (Matte Black with Blue) PT1-BR-758-049

Nike Siren Lead Glasses

Nike Siren leaded glasses are designed with style in mind. These radiation protective eye-wear offer excellent protection. Their modern look as well as their radiation splash protection allow them to fit in any hospital setting.

<table>
<thead>
<tr>
<th>Weight</th>
<th>63g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Equivalency</td>
<td>0.75 Pb</td>
</tr>
<tr>
<td>Rx Range</td>
<td>+3.50 to -3.50</td>
</tr>
</tbody>
</table>

Siren Lead Glasses (Black with Black) PT1-SI-580-001
Siren Lead Glasses (Tortoise) PT1-SI-580-202
Siren Lead Glasses (Black Fade) PT1-SI-583-001
Siren Lead Glasses (White) PT1-SI-809-162

99 Ultralite Women’s

The Ultralites are designed to provide a lightweight and comfortable solution from scatter radiation for the entire eye area without the necessity of side shields for lateral protection. Available in fun colours to accessorise with your leaded aprons.

<table>
<thead>
<tr>
<th>Weight</th>
<th>58g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Equivalency</td>
<td>0.75 Pb</td>
</tr>
<tr>
<td>Rx Range</td>
<td>Reg +3.00 to -3.00 / Sm +3.00 to -5.00</td>
</tr>
</tbody>
</table>

99 Ultralite Women’s Pink PT1-L99PK

Zebra Leaded Glasses

No need to sacrifice style any longer. The Zebra frame offers a stylish solution from scatter radiation while also offering splash protection.

<table>
<thead>
<tr>
<th>Weight</th>
<th>71g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Equivalency</td>
<td>0.75 Pb</td>
</tr>
</tbody>
</table>

Zebra Leaded Glasses PT1-L4656A
MicroLite Maxx 30
Radiation protection glasses with large lens area for maximum protection.

<table>
<thead>
<tr>
<th>Weight</th>
<th>66.5g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Equivalency</td>
<td>0.75 Pb</td>
</tr>
<tr>
<td>RxRange</td>
<td>TBC</td>
</tr>
</tbody>
</table>

- Unisex Shape
- Temple Bars and soft Nose Bridges with soft padding for extra support and comfort
- Now available with anti-fog coating
- Most Rx’s can be fit
- Lightweight and Comfortable

MicroLite Maxx 30 (Black) AT1-1000B
MicroLite Maxx 30 (Black Anti Fog) AT1-1000B-AF
MicroLite Maxx 30 (Blue) AT1-1000BL
MicroLite Maxx 30 (Blue Anti Fog) AT1-1000BL-AF

450 Full Panorama Mask
The 450 Full Panorama Mask consists of a radiation protective lead impregnated acrylic shield that is suspended from an adjustable headpiece. The stationary acrylic shield extends from a headpiece brow connector for a length of 20cm from the top to bottom in front of the entire face.

A support strap saddles the crown of the head while connecting at a 90° angle to an adjustable headband that surrounds the head circumference from the brow to back. The circumference portion of the headband has a dial adjustable strap in the rear to increase or decrease the hat size for a comfortable snug fit.

<table>
<thead>
<tr>
<th>Weight</th>
<th>450g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Equivalency</td>
<td>0.1 Pb</td>
</tr>
<tr>
<td>Material</td>
<td>Acrylic / Nylon</td>
</tr>
</tbody>
</table>

Full Panorama Mask PT1-450FPMS

Anti-Fog Lens Treatment System
Fog Buster Features:
- Cleans and protects
- Two-step system: pre-moistened cleansing towelette and buffing cloth
- Pocket-size packaging in 60-count department box
- Individually wrapped, single use
- Revolutionary formula prevents fogging for hours
- Safe and effective, will not scratch valuable radiation and laser safety lenses

Anti-Fog Lens Treatment System AT1-FOG

400 Panorama Shield
The 400 Panorama Shield consists of a face-formed radiation protective lead impregnated acrylic that is suspended from a dual adjustable headpiece. The acrylic shield can be positioned at any angle to the face so as to minimise scatter radiation from passing under the shield by side adjustable dials. The headgear is adjustable in two positions.

An adjustable headband that saddles the crown of the head while connecting at a 90° angle to an adjustable headband that surrounds the head circumference from brow to back. The circumference portion of the headband has an adjustable circumference from brow to back. The circumference portion of the headband has an adjustable dial in the rear to increase or decrease the hat size for a comfortable snug fit.

<table>
<thead>
<tr>
<th>Weight</th>
<th>350g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Equivalency</td>
<td>0.1 Pb</td>
</tr>
<tr>
<td>Material</td>
<td>Acrylic / Nylon</td>
</tr>
</tbody>
</table>

Panorama Shield PT1-400PSMPS
What is RadLab?

RadLab™ is a personal radiation protection compliance testing and protection management service suitable for use by organisations of all sizes. RadLab provides ready access to a robust and independent measurement service to determine the performance, compliance and protection capabilities of existing and new radiation protection products including aprons, gloves, eyewear, shin protection, head protection, and drapes.

The RadLab™ service has the following features and benefits:

• Simple advice given by industry experts.
• NATA accredited to provide assurance that the service is technically sound.
• RadLab™ staff provides their expertise in a supporting advisory role, and offer a computational modelling capability to users interested in determining the radiation attenuation and scattering properties of materials in a variety of scenarios relevant to diagnostic imaging involving the use to ionising radiation.

Why do you need RadLab?

As healthcare industries have evolved and become more complicated, keeping a practice that is compliant with personal radiation protection standards has become more and more difficult.

RadLab™ provides you with a simple, stress-free way to determine the performance, compliance and protection capabilities of both existing and new radiation protection products. RadLab facilities have been configured to be able to determine lead equivalence or attenuation properties for submitted samples according to all relevant international standards, namely:

• IEC 61331-1(1994), and its revision, IEC 61331-1(2014)
• DIN 6857-1(2009)
• ASTM F2547-06, and ASTM F3094-14.

Beam geometries available for measurements are as per recommendations in the respective standards.
Comprehensive Advice, Service and Support for Personal Radiation Protection

Imaging Solutions is your turn-key complete solutions provider.

Imaging Solutions recognise that medical imaging staff are needing more and more access to information and practical resources to help them manage the radiation protection issues they confront in their workplace.

To address this, Imaging Solutions provides:

• One of the most extensive ranges of market-leading personal radiation protective products delivered as integrated and complimentary solutions.
• Complete customer support from pre-purchase through to end-of-life including education and training, regulatory guidance, customised solutions, and assistance with the environmentally safe disposal of products.
• Innovative tools such as our 3D Apron Customisation and Ordering System (3DACOS) or our RadTrack® online compliance and management solution.
• A comprehensive range of printed or downloadable collateral providing product features or technical information, compliance information and usage and care guidelines.

Market Leading Radiation Protective Products

Our integrated and customised solutions encompass apparel including aprons, caps, thyroid collars and gloves; eye wear including glasses, goggles and masks; management tools; and a range of ceiling, mobile and lower body shielding options.

Pre-Purchase and Initial Selection

Our support begins even before your purchase. No matter what you are looking for, we’ll do everything we can to help you choose the correct, fit-for-purpose item. Our resource platforms help you access information on industry trends, regulations and product options. Our staff provide help and advice on designs, materials, sizes and custom options, and we also provide self-help tools such as 3DACOS or RadTrack®, as well as compliance or performance certificates, sizing charts and product specification sheets.

Usage, Care and Storage Guidelines

Proper care of personal radiation protection products is just as important as choosing the correct ones in the first place. We provide advice and make available usage, care and storage guidelines to help you optimise protective levels and maximise the overall life of your investment.

Regulatory Compliance, Testing and Certification

Imaging Solutions provides comprehensive assistance and information to help our customers understand and comply with local and international standards and guidelines set out by organisations such as the International Electrotechnical Commission (IEC), the World Health Organisation (WHO), Standards Australia, and the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA).

While competitors have historically relied upon their manufacturing partner to test their products (often done in countries producing certification not recognised in the country of sale), Imaging Solutions conducts comprehensive independent local testing of our products, as well as those of our competitors.

Fleet Tracking Management and Dose Monitoring Systems

Imaging Solutions’ exclusive RadTrack® online tracking and management system allows our customers to effectively track and manage apparel products as well as their periodic compliance testing.

Additional Services

Imaging Solutions offers the following additional services:

• Training and in service presentations
• Printed information material for your department covering a range of topics
• Independent testing of personal radiation protection through RadLab
• Arrange of consultancy options for your PRP needs
Protective Apparel Fleet Management Has Never Been Easier!

- Safe and secure with easy online access
- Manage risk and protect your investment
- Effective and affordable apparel tracking through full life-cycle
- In-built and custom reporting
- Ideal for department, site or enterprise level
- Time-saving barcode scanner and labelling options
- Integrates seamlessly with RadSafe® apparel!

RadTrack® is available **FREE** to all sites with over 250 aprons!
What is RadTrack?

RadTrack® is a personal radiation protection apparel tracking, reporting and management system suitable for use by organisations of all sizes. The system is simple-to-use and easy-to-access. RadTrack® can save you, your department or your facility significant effort, time and money, and helps you manage the risk associated with the regular screening of personal radiation protection apparel.

Why do you need RadTrack?

As healthcare industries have evolved and become more complicated, keeping track of personal radiation protective aprons and other apparel has become more and more difficult. Hospital departments have diversified and enlarged, with items often moving from one department, or even one facility, to another.

RadTrack® provides you with a simple, stress-free way to label, track and report on your radiation protection apparel. It helps you manage the risk associated with apparel inspections - a process required and monitored by regulating bodies in most countries.

Features and Benefits

The RadTrack® system has the following features and benefits:

- Simple and easy-to-use via any Internet accessible terminal.
- Immediate integration into workflow.
- User-defined access by individuals, departments or sites via secure user name and passwords.
- Unique identification codes (RadIDs) for each apparel item.
- Colour inspection indicators provided allowing users to quickly and easily identify items that have been tested and are compliant.
- Complete life-cycle tracking from purchase to end-of-life and disposal.
- High levels of functionality in reporting (templates or design your own report) and managing apparel.
- Custom-defined and automated testing reminders.
- Time-saving barcode scanner and labelling options.
- Can be used for new and existing apparel.
- Ideal for use with RadSafe® aprons and thyroid collars!

How To Access RadTrack

It’s easy to access RadTrack®! Once you’ve received your account details, simply log into the system via the appropriate RadTrack® website:

Australasia       www.radtrack.com.au
North America     www.radtrack.net

Should you have any queries or concerns, please contact Imaging Solutions, your local distributor or simply use the contact form available on the above websites.

Screen shots showing an example of the item management page (top) and an enlarged system generated 3D image of an apron (right)
Easy-to-Use Functionality for Simple Tracking and Reporting on Fleets of Any Size.

Dashboard

The RadTrack® Dashboard is your starting point when you log into the RadTrack® system. The Dashboard page contains a variety of quick and convenient links to other areas of the system and also displays a limited amount of key, quick reference information such as order details or apparel requiring inspection.

Quick Links

- Add and edit apparel items to your account
- Enter and log inspection findings
- Schedule apparel disposal
- Create worksheets

Quick Reports

- Create system reports such as apparel or inspection reports
- Custom design and create your own report

Administration

- Define or redefine users or notification settings
- Manage users and user settings
- Set logos
- Get instant system help or request help on a specific issue

Apparel Requiring Inspection

- An alert system providing a list of all apparel that require inspection

Manage Apparel

The Manage Apparel page of the RadTrack® system allows you to conveniently view a range of individual details about any of your apparel items held on the system. Essentially, it is a snapshot of everything you will need to know about an apparel item.

- Alerts - Not inspected, needs inspection or sent for repair alerts.

- Basic Information - RadID code for the item as well the type of item, its status, site and department and any relevant order details.

- Apparel Specifics - Item style, colours / patterns for outer and inner fabrics, binding colour, gender, size, lead equivalency and protective material type.

- Life-Cycle Information - Item in-service date, last inspection date, inspection due date and scheduled disposal date (if applicable).

- Compliance and Testing - Logged results of previous inspections including acceptance test and all annual inspections.

- Item Image - A system generated 3D image or you can upload your own photo or image. The image can be enlarged to be seen in greater detail if required.

- Task Quick Links - Update apparel, upload photo, view apparel history, schedule disposal and print page.
Reports

The RadTrack® system not only provides a variety of useful in-built reports, it also allows you to create and produce your own. There is no easier way to confidently track and report on your personal radiation protection apparel inspections: RadTrack® has the inspection reports ready to print!

Instantly generate other types of reports yourself using any of the data in the system. These neat, tidy and easy-to-read reports are indispensable when it is time for an inspection or when you need information on hand in a professional format. They also can be configured to be e-mailed to you weekly, monthly or quarterly (or as required) and it is easy to add company logos to create a truly professional document.

Standard, built-in reports include:

- Individual, departmental or site-based reports
- Inspection reports (results or due-based)
- Apparel basic and specific information reports
- Latest activity reports

With RadTrack® you will always have the information about your fleet of personal radiation protection apparel on hand, when and where you need it!

Configuration

RadTrack® is just as flexible as it is convenient and useful!

The system can be used for apparel fleets of any size, from small clinics up to large enterprises with multiple sites and hundreds or even thousands of items. It is also flexible enough to be used in any location around the world and with formats you are accustomed to.

On the configuration page, you can set basic settings such as time zones, date formats, initials (of item owners or persons carrying out inspections) as well as site, department or individual contact details.

Users

The RadTrack® system allows you to define users for all levels along with access levels and permissions. All this may be protected by the use of secure sign-on user names and passwords. The user page also allows you to keep user contact information up-to-date so that users may be contacted when, or if, required.
RadTrack® Hardware and Labelling

More Than an Online Database!
RadTrack® is more than a simple online database. A number of hardware, labelling and identification features make using RadTrack® even easier, and create a complete tracking and reporting solution.

- Barcode scanning
- Unique RadIDs
- Dual inner labels
- Retrofit outer labels
- Colour inspection indicators

Barcode Scanning
Scan faster and farther and enjoy the next generation of bar code scanning. Bar codes can be captured at extreme angles, scanning is easier than ever, so you spend less time manoeuvring the scanner and more time on task. The cradle enables presentation mode gives you the flexibility to use the scanner in handheld and hands-free modes.

- Cordless freedom
- Excellent 1D scanning performance with superior motion and angular performance
- Built for everyday use with built-in rechargeable battery and long life charging contacts

Dual Inner Apron Labelling System
RadSafe®’s dual apron label system compliments RadTrack® as a back-up RadID label and compliance history record. The labels also provide apron specifications and helpful usage and care information.

- The RadSafe® Label provides the apron’s RadID, specifications and attenuation information. The back of the label provides helpful cleaning, storage and care tips.
- The RadTrack® Label is used to record your apron’s screening test dates or other tracking information. The back of the label introduces our RadTrack® product.

Outer Labelling on RadSafe® Apparel
RadTrack® outer labels are easily integrated with the RadTrack® system as they provide the most recognisable visual display of RadIDs as well as other important information about your apron.

Using RadTrack® With Existing Apparel
If you already own or use apparel other than RadSafe®, this will not stop you using the RadTrack® system. We have developed and made available effective retrofitting options to ensure your RadID is always clearly visible and you can utilize colour inspection indicators (see below).

Colour Inspection Indicators
RadTrack® colour inspection indicators provide immediate visual recognition of whether an apparel item has been tested for the current period and is therefore safe to use. The indicators are easily attached to a holder on a RadSafe® apron or to a retrofit tag. Use different colours for different periods to indicate items that have passed testing, need to be tested, are out-of-date, are damaged or any other designation.

Colour inspection indicators are not necessarily required to be used in order to use the RadTrack® system.
Technical Service and Support

Easy-to-access technical service and support - not that we think you’ll need it!

As well as designing RadTrack® to be extremely useful and effective in tracking and managing your radiation protection apparel, we’ve also deliberately made it simple-to-use and highly reliable. The product also comes with a comprehensive, easy-to-follow user guide.

This all means that we expect you’ll have little to no problems using the system from the first moments you log on. Should you run into trouble however, rest assured that help is only phone call or the click of a mouse button away.

Two flexible levels of support to solve any issue that arises.

Imaging Solutions employs a service escalation model that gives you a choice of options for help, and ensures any problem you experience is solved in the absolute minimum time frame possible.

Option 1 - Personal Support

You may seek support directly from Imaging Solutions or your local distributor in person. Imaging Solutions’ and our distributors’ service staff are comprehensively trained in the usage of the RadTrack® system and can usually provide you with a quick and effective solution to your problem.

Option 2 - Web-Based Support

Should the problem be a little more complicated, you may want to contact one of Imaging Solutions Technicians. This can be done via the help facility on the RadTrack® website and we will reply to your query within 24 hours.

Website Tutorial

All RadTrack® websites feature easy-to-use and helpful walkthrough guides to assist you. When you first log on, you will be taken through all possible set up steps. Then when you are finished, the tutorial will be automatically hidden.
Mobile Shielding Protection

 WD257 Adjustable Mobile Shield

The WD257 Adjustable Mobile Shield is height-adjustable between 115 cm and 190 cm. Sleek construction and stable base legs save space and ensure safety. A classic model in interventional radiology, the lead acrylic glass panel is easily adjusted and retracts inside its steel base.

<table>
<thead>
<tr>
<th>Protection</th>
<th>Steel body (78 cm width, 107 cm height); lead acrylic glass (70 cm width)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall height</td>
<td>Adjustable from 115 cm to 190 cm</td>
</tr>
<tr>
<td>Lead equivalency</td>
<td>1.0 Pb (Steel body); 0.5 Pb (Lead acrylic glass)</td>
</tr>
</tbody>
</table>

 WD260 Mobile Lower Body Shield

The WD260 Mobile Lower Body Shield is used for under table protection, although the table does not offer any option for accessory rails.

Overlapping flexible strips ensure optimal protection and extend operating range. The sleek and manoeuvrable system is statically secure and offers lots of space. High variability due to a removable shield. The stable base offers a large operating range with very little space required.

<table>
<thead>
<tr>
<th>Protection</th>
<th>1 or 2 removable upper pieces (170 mm and 250 mm in height); middle section (60 x 100 cm); 2 angled side sections (20 x 100 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead equivalency</td>
<td>0.50 Pb</td>
</tr>
</tbody>
</table>

 WD255 Mobile Shield

This economical solution is an ideal workplace shield.

Dimensions: 100 x 203 cm

Available with or without viewing window and in 1.0 Pb or 2.0 Pb.

<table>
<thead>
<tr>
<th>Protection</th>
<th>With lead acrylic window (30 x 40 cm) or without</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead equivalency</td>
<td>1.0 Pb or 2.0 Pb</td>
</tr>
<tr>
<td>Mobile Shield</td>
<td>1.0 Pb or 2.0 Pb</td>
</tr>
<tr>
<td>(w/o window - 1.0 Pb)</td>
<td>MA1-WD2551A</td>
</tr>
<tr>
<td>(w/ lead acrylic window - 1.0 Pb)</td>
<td>MA1-WD2551B</td>
</tr>
<tr>
<td>(w/o window - 2.0 Pb)</td>
<td>MA1-WD2552A</td>
</tr>
<tr>
<td>(w/ lead acrylic window - 2.0 Pb)</td>
<td>MA1-WD2552B</td>
</tr>
</tbody>
</table>
WD258 Mobile Bed Screen

The mobile bed screens can easily be moved by anyone, especially helpful in neo-natology or intensive care wards. This versatile screen efficiently reduces exposure to secondary radiation. A spring-driven support simplifies height adjustment. The Mavig protective material is flexible, which prevents damage, even in case of collisions.

<table>
<thead>
<tr>
<th>Protection</th>
<th>Shield (90 x 70 cm); height adjustable from 128 cm to 172 cm</th>
</tr>
</thead>
</table>

WD300 Curved Mobile Shield

The slightly curved lead acrylic shield is suited to the body's shape and offers maximum mobility. The unique shield is especially suited for applications in interventional radiology. The form and height of the cutouts can be ordered to meet individual requirements.

<table>
<thead>
<tr>
<th>Protection</th>
<th>Curved lead-acrylic shield with side arm cutouts (100 x 190 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead equivalency</td>
<td>0.5 Pb</td>
</tr>
</tbody>
</table>

WD302 Contoured Mobile Shield

The out-adjustable shield with contour cut can be placed over the body of the effectively reducing secondary radiation emanating from the patient's body.

<table>
<thead>
<tr>
<th>Protection</th>
<th>Steel body (77.5 cm width, 90 cm height); lead acrylic glass (70/110 cm width)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall height</td>
<td>Adjustable from 140 cm to 190 cm</td>
</tr>
<tr>
<td>Lead equivalency</td>
<td>Steel body (1.0 Pb); lead acrylic glass (0.5 Pb)</td>
</tr>
</tbody>
</table>

WD304 Contoured Mobile Shield w/ Lower Body Panel

The mobile radiation protection has the same characteristics as the WD302 shield. In addition, it offers an under table protection consisting of flexible overlapping radiation protective strips with a lead equivalency of 0.5 Pb.

<table>
<thead>
<tr>
<th>Protection</th>
<th>Steel body (77.5 cm width, 79 cm height); lead acrylic glass (70/110 cm width); strips (50 cm width, 64 cm height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall height</td>
<td>Adjustable from 135 cm to 165 cm</td>
</tr>
<tr>
<td>Lead equivalency</td>
<td>Steel body (1.0 Pb); lead acrylic glass (0.5 Pb)</td>
</tr>
</tbody>
</table>

WD306 Mobile Spatial Shield

The WD306 Mobile Spatial Shield model is optimally designed for spatial shielding. Available in larger widths to meet customer requirements. The mobile lower body protection is used when under table radiation protection is required, although the table does not offer any option for accessory rails.

<table>
<thead>
<tr>
<th>Protection</th>
<th>100 x 200 cm or 130 x 200 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead equivalency</td>
<td>0.5 Pb or 1.0 Pb</td>
</tr>
</tbody>
</table>

WD308 Mobile Anti-Tilt Shield

High security against tilting, thanks to sophisticated, static base legs. Sleek design saves space and prevents stumbling hazards.

<table>
<thead>
<tr>
<th>Protection</th>
<th>100 x 200 cm or 80 x 110 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead equivalency</td>
<td>0.5 Pb or 1.0 Pb</td>
</tr>
</tbody>
</table>
Mobile Screens

Mobile radiation protective screens with lead acrylic viewing panel. Available in 4 different options. See image for reference. Lead Equivalence is 2.2 Pb.

<table>
<thead>
<tr>
<th>Mobile Screen - Type</th>
<th>RS2-MOBSR1</th>
<th>RS2-MOBSR2</th>
<th>RS2-MOBSR3</th>
<th>RS2-MONSCR4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Half Acrylic Mobile Barrier

The half acrylic barrier is a mobile barrier featuring an acrylic window providing exceptional visibility over a wide field of view. Smooth rolling casters allow the barrier to be moved easily.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>182 cm H x 71 cm W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Window Size</td>
<td>61 cm H x 71 cm W</td>
</tr>
<tr>
<td>Lead Equivalency</td>
<td>0.5 mm Pb Acrylic and Base</td>
</tr>
</tbody>
</table>

Acrylic X-Ray Barrier

Acrylic Mobile X-ray Barriers solve a variety of X-ray radiation protection problems while offering a wide field of view and excellent X-ray body protection. Each is designed with an optically clear viewing area made of shatter resistant durable 0.5mm lead equivalent acrylic. Framework is brush finished, highly durable 6061 Aluminum Frame.

With no paint to chip, these acrylic mobile barriers maintain their like new appearance for many years. Opaque Panel is highly durable kydex material. Casters are medical grade. Foot operated caster locks allow for fixing barrier position.

<table>
<thead>
<tr>
<th>Model</th>
<th>Regular</th>
<th>Jumbo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Size</td>
<td>75&quot;H x 30&quot;W</td>
<td>75&quot;H x 30&quot;W</td>
</tr>
<tr>
<td>Window Panel</td>
<td>24&quot;H x 30&quot;W</td>
<td>48&quot;H x 30&quot;W</td>
</tr>
<tr>
<td>Lead Equiv.</td>
<td>0.5mm</td>
<td>0.5mm</td>
</tr>
<tr>
<td>Opaque Panel</td>
<td>48&quot;H x 30&quot;W</td>
<td>24&quot;H x 30&quot;W</td>
</tr>
<tr>
<td>Lead Equiv.</td>
<td>0.8mm</td>
<td>0.8mm</td>
</tr>
</tbody>
</table>

Regular Acrylic X-Ray Barrier AA1-S-602
Jumbo Acrylic X-Ray Barrier AA1-S-606
Deluxe Mobile T Base Shield Solid Panel

Our Most Popular & Versatile Mobile Shield! Accommodating shielding for both children and adults.

Adjustable height mobile shields that adjust from 8" to 60” are excellent for patient and staff protection during imaging procedures. All steel T-Base provides excellent stability and confidence in no-tipping. Easy movement around the room and the unique base allows easy positioning around equipment and wall stands. Posi-Lock height adjustable arm with spring-loaded pin.

Made of durable nylon fabric and 0.5mm Pb equivalency protection. Quick and easy assembly.

Protection 76 to 107 cm
Lead equivalency 0.5 Pb

Porta-Shield

A versatile mobile shield featuring an adjustable height nylon covered lead vinyl curtain. The Porta-Shield is very useful in helping to shield areas of a patient’s body during certain radiographic procedures, or the practitioner during special radiographic or fluoroscopic procedures.

Available in two sizes.

<table>
<thead>
<tr>
<th>Protection</th>
<th>Overall height</th>
<th>Lead equivalency</th>
</tr>
</thead>
<tbody>
<tr>
<td>122 x 61 cm</td>
<td>Adjustable from 45.7 to 106.7 cm</td>
<td>0.5 Pb</td>
</tr>
</tbody>
</table>

Porta-Shield Adjustable PT1-1001C

WD261 Mobile Lower Body Shield

The compact, anatomically formed shield of the model WD261 allows for a close body fit so that the doctor can move freely throughout the procedure. Due to springs the user can adjust the height of the shield to his own height or working position requested, at any time i.e. also during the procedure.

The shield was designed to offer sufficient legroom in order to eliminate any risk of injury. The unimpeded use of the control pedal of the x-ray unit accounts for another advantage.

- Height adjustable for individual needs from 1050 to 1350 mm
- Lead equivalent Pb 0.50 mm
- Easy to clean outer material: MAVIG ComforTex®-HMPF
- Designed for easy and comfortable control pedal use
- High quality, electrically conductive wheels with brakes
- Specially designed sterile covers STEA-WD261 to meet strict hospital hygienic regulations

<table>
<thead>
<tr>
<th>Protection</th>
<th>Height adjustable 1050 to 1350 mm of protection.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead equivalency</td>
<td>0.50 Pb</td>
</tr>
</tbody>
</table>

WD260 Mobile Lower Body Shield MA1-WD261
Ceiling Suspended and Lower Body Shielding

Shielding systems are an integral part of holistic radiation protection. Imaging Solutions offers an extensive range of shielding solutions to enable the highest quality of safety without compromise in terms of comfort or practicality for both the patient and the examiner. Medical staff and patients also benefit from the flexibility in the positioning of the systems and contour options.

UT60 Lower Body Shield

Model UT6020 is comprised of two separate parts or two parts to be used in conjunction with each other: the protection adapter at the table column and the swivel components, which adapt to the table’s angle of inclination.

Features overlapping flexible protection strips in hygienically pure cover.

| Protection | 2 pieces, versatile positioning |
| Lead equivalency | 0.50 Pb |
| UT60 Lower Body Shield | MA1-UT6020 |
| Hygienic Covers for MA1-UT6020 | MA1-UT6020F |

UT68 and UT 69 Lower Body Shields

Models MV-UT6801 and MV-UT6802 have the same specifications as the UT69 (see over page), but without the intermediate articulated joint and additional lateral lead strips.

Available with two or one removable upper shields.

| Protection | 1 or 2 removable upper pieces (170 mm and 250 mm in height) |
| Lead equivalency | 0.50 Pb |
| Lower Body (two removable upper shields) | MA1-UT6801 |
| Lower Body (one removable upper shield) | MA1-UT6802 |
| Hygienic covers for MA1-UT6801 and MA1-UT6802 | MA1-UT6801F |

Lead Acrylic Shield (With Patient Contour Cutout)

Centrally guided via connecting element. Features a patient contour cutout for more flexible usage and positioning over the patient.

| Dimensions | 61 x 76 cm (W x H) |
| Lead equivalency | 0.5 mm Pb |
| Lead Acrylic Shield W/ Cutout | MA1-OT50001 |
| Lead Acrylic Shield W/ Protective Strips / Cutout | MA1-OT50010 |

Femoral and Radial Access Protective Shield

X-Ray protective shield for femoral and radial access during cardiologic and angiographic procedures.

| Dimensions | 78 x 90 cm (W x H) |
| Lead equivalency | 0.5 mm Pb |
| Laterally Guided Lead Acrylic Shield W/ Cutout | MA1-OT54001 |

Compatible with the Mavig® Ceiling Suspension Systems. See Imaging Solutions’ Medical Imaging Equipment catalogue for full range.
RadFresh® Cleaning and Care Products

Effective cleaning solutions for periodic cleaning of radiation protective apparel, cleans all types of radiation protective apparel without damaging and maximises life for optimal performance.

Why Is Cleaning and Care Important?

Taking care of personal radiation protection equipment through periodic cleaning and safe transport is important in ensuring its effectiveness in protecting you against radiation exposure as well as optimising the item’s life. Protective aprons, for instance, can last ten or more years if they have been well cared for. However, incorrect or careless care and maintenance could render the same apron unusable in a far shorter period.

Most damage to radiation protective apparel is irreversible so the item will be ineffective in protecting the user. Moreover, if the next scheduled inspection date is a long way off, a user may not know you are using a damaged item and this could result in serious health effects.

Importantly, cleaning items periodically also helps to eliminate harmful bacteria on surfaces and therefore assists in infection control.

RadFresh® Apron Refresher

Imaging Solutions’ exclusive RadFresh® Apron Refresher is a purpose-made cleaning solution for personal radiation protection apparel of all types.

The cleaning solution is designed to quickly and easily clean your apron and help to extend its life.

- Purpose formulated to clean protective apparel outer fabrics without affecting the inner protective material
- Biodegradable
- Deodorising
- Surface brush included to help remove stains or marks

<table>
<thead>
<tr>
<th>Size</th>
<th>500 ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nozzle Type</td>
<td>Multi-type spray nozzle</td>
</tr>
</tbody>
</table>

RadFresh® Apron Carry Bag

Transporting protective aprons and apparel can often result in accidental damage. This risk can easily be avoided by using our RadFresh® Apron Carry Bag, a purpose-designed item and makes moving your apron both easy and safe. Please note that aprons should not be folded when transported as this can cause cracks or other damage. Rather, the apron should be rolled, eliminating the chance of such damage.

- Shoulder strap
- Side pockets

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>110cm (L) x 35cm (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>500g</td>
</tr>
<tr>
<td>Colours</td>
<td>Black Nylon</td>
</tr>
</tbody>
</table>

RadFresh® Apron Carry Bag RS1-909821
RadStore® Storage

Quality, effective and innovative storage solutions for personal radiation protective apparel. Keep your apparel in good condition with these innovative storage solutions.

3/5 Wall Mounted Apron Racks

Keep apparel neat and free from damage with options to store 3 or 5 garments at a time. Ideal for use with aprons or other apparel items.

- Wall Mounted Rack - Holds 5, Right Folding RS1-511R
- Wall Mounted Rack - Holds 5, Left Folding RS1-511L
- Wall Mounted Rack - Holds 3, Right Folding RS1-311R
- Wall Mounted Rack - Holds 3, Left Folding RS1-311L

Apron Trolley

Lightweight, mobile apron trolley that holds up to 15 aprons or other types of apparel. (Hangers not included)

- Apron Trolley RS1-APTROLLEY

Apron Valet Trolley

Strong and relatively lightweight mobile apron trolley. Capable of holding up to either 10 or 20 aprons depending on model. Available with or without chrome apron hangers.

- 10 Rack RS1-S-TROLLEY-10
- 20 Rack RS1-S-TROLLEY-20
- 10 Rack w/ Hangers RS1-S-TROLLEYH-10
- 20 Rack w/ Hangers RS1-S-TROLLEYH-20

Mobile Trolley

A strong and sturdy design with stainless steel construction and a choice of either 6 or 10 hangers. Wheels come 12.5 cm standard.

- 6 Hanger RS1-APMTR
- 10 Hanger RS1-APMTR10
Mighty Max Mobile Apron Rack
The Mighty Max mobile apron rack’s solid steel design holds up to ten radiation safety aprons. The pedestal base features rolling wheels for easy portability. Convenience hooks on each hanger can hold lead skirts.

Chrome Apron Hanger
A heavy-duty, chrome plated, 0.5 cm steel hanger that protects garments and helps to increase their life. Hanger will hold up to 23 kg without stressing the lead vinyl or outer covering.

Hanger Bracket
With a stainless steel back plate (11 x 5.8 cm wide and projecting 16.5 cm), this bracket supports 3 chrome-plated hangers, and comes complete with wall plugs and 4 fixing screws.

Chrome Apron Hanger RS1-APH2
Hanger Bracket RS1-APR5

2/4/8 Peg Apron Racks
A space saving, solid metal wall mounted rack for aprons and other apparel. Lightweight but strong.

Mighty Max PT1-APMAX

| Apron Rack - Holds 1 Apron | RS1-APEG-2 |
| Apron Rack - Holds 2 Aprons | RS1-APEG-4 |
| Apron Rack - Holds 4 Aprons | RS1-APEG-8 |
Apparel and Glove Care and Storage Recommendations

RadSafe aprons and apparel are available in a variety of standard fits as well as custom sizes manufactured to your specifications. Care should be taken to ensure you are wearing the proper size and that all critical areas are covered fully.

All radiation protection aprons and gloves should be regularly checked and monitored for substrate integrity. Imaging Solutions recommends a minimum of one inspection annually. A great way to track and manage this process is to use our RadTrack solution described in the previous section.

Any protective apron or glove that shows holes, tears or radiation leakage must be taken out of service immediately and either repaired or destroyed.

Storage

Aprons should always be properly hung on a rack or hanger specifically designed for protective apron storage. Never fold, crease or stack an apron. Avoid sharp objects. Core material is fragile and once punctured renders an apron unusable.

Gloves, due to the nature of the mold, can be stored in almost any manner without causing damage. Care should be taken to avoid sharp objects as through and through punctures will allow radiation to pass to the wearer.

Cleaning

Use only warm water and a mild detergent or our specially formulated RadFresh® ‘Apron Refresher’ cleaner. Never use harsh chemicals and never use commercial or machine washing or drying on aprons. Glove liners can be removed and hand washed, then hung up until dry. Replacement liners are also available at a nominal charge.

Disinfecting

NEVER use a steam autoclave as the heat will cause severe damage to the protective substrate. Aprons and gloves can be ETO gas sterilized or disinfected with RadFresh® ‘Apron Refresher’ to assist with infection control by preventing the spread of harmful bacteria.

The Ten Point Usage and Care Guide

1. Prior to use, inspect products for damage including holes, cuts, tears, rips or undone seams.

2. Maximise product life, maintain original quality and assist infection control with regular use of a cleaner (e.g. RadFresh® Apron Refresher).

3. Ensure apparel undergoes annual screening (for pinholes, cracks or fastener failures) with the result logged as pass or fail.

4. Utilise fasteners, Velcro buckles or clips to ensure correctly fitted apparel that meets local standards and offers appropriate protection.

5. Use a purpose-made metal hanger or hanger system - never fold or leave aprons or apparel lying on the floor or on furniture.

6. See the apparel label for lead equivalence information to ensure appropriate protection.

7. Use the best product for you - choosing the right protective material and gender / ergonomic style will ensure optimal protection.

8. Incorporate useful or convenient customisations such as length extensions or prescription eye wear.

9. Use a management system such as RadTrack® to make tracking and reporting on products easier.

10. The correct disposal of apparel and accessories should be done safely and in accordance with relevant local standards.
Standards for Personal Radiation Protection

International Standards for Aprons

Protective aprons should comply with the international standard IEC 61331-3 - Protection devices against diagnostic medical X-radiation.

General Information

• Protective aprons should be worn in examination rooms during radiological procedures (with or without interventional procedures).
• Such aprons are intended to protect the main part of the body - additional protection (for example shields, eyewear or caps) is required for complete body protection.

Categories of Aprons

There are four categories of protective aprons defined in the standard:
• Light protective aprons
• Heavy protective aprons
• Light closed protective aprons
• Heavy closed protective aprons

Distinctions between light and heavy aprons relate to usage, not weight: light aprons are recommended for operating theatres, gypsum rooms or if the significant zone of occupancy is protected against stray radiation by other protective devices such as fixed on the X-ray equipment while heavy aprons are recommended for use in examination rooms. However, light aprons are often referred to as having 0.25 Pb lead equivalency, and heavy aprons 0.50 Pb.

Closed aprons refer to full protection aprons that have cross over panels and a closure at the front. Aprons with a flat, single panel front that are referred to as open.

Apron Lead Equivalency

The protective material of aprons as well as any fabric covering and binding shall be flexible.

The attenuation equivalencies of protective material shall be as follows:
• Light protective aprons and light closed protective aprons shall be not less than 0.25 Pb over the entire area.
• Heavy protective aprons and heavy closed protective aprons should be not less than 0.35 Pb for the front section and 0.25 Pb for remaining parts.

Design and Coverage Area

All protective aprons shall consist of one or more layers and should:
• Cover the front part of the body, from the throat (therefore making thyroid collars necessary) down to at least the knees.
• Cover the entire breastbone and shoulders, not less than 11 cm on each shoulder and extended over the shoulders for at least 15 cm.

Please note unprotected stitch holes fixing parts together are only allowed on the back, not the front.

Additionally, protective closed aprons should:
• Cover the sides of the body, from not more than 10 cm below the armpit to at least half-way down the thigh, and the back covered down to at least the knees.
• Permit ventilation such as with overlapping fastenings at the sides (opening points to the back) or a fastening with an uncovered vertical slit in the middle of the back.

Size Classification and Dimensions

Protective apron sizes are classified as per the table below:

<table>
<thead>
<tr>
<th>Standard Size</th>
<th>Letter Symbol</th>
<th>Dimensions (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>Very short</td>
<td>SV</td>
<td>90</td>
</tr>
<tr>
<td>Short</td>
<td>SS</td>
<td>100</td>
</tr>
<tr>
<td>Medium</td>
<td>SM</td>
<td>110</td>
</tr>
<tr>
<td>Long</td>
<td>SL</td>
<td>120</td>
</tr>
<tr>
<td>Very Long</td>
<td>SE</td>
<td>130</td>
</tr>
<tr>
<td>Very short</td>
<td>MV</td>
<td>90</td>
</tr>
<tr>
<td>Short</td>
<td>MS</td>
<td>100</td>
</tr>
<tr>
<td>Medium</td>
<td>MM</td>
<td>110</td>
</tr>
<tr>
<td>Long</td>
<td>ML</td>
<td>120</td>
</tr>
<tr>
<td>Very Long</td>
<td>ME</td>
<td>130</td>
</tr>
<tr>
<td>Short</td>
<td>LS</td>
<td>100</td>
</tr>
<tr>
<td>Medium</td>
<td>LM</td>
<td>110</td>
</tr>
<tr>
<td>Long</td>
<td>LL</td>
<td>120</td>
</tr>
<tr>
<td>Extra Long</td>
<td>LE</td>
<td>130</td>
</tr>
</tbody>
</table>

Dimension A is the length from the middle of the shoulder to the lower edge. Dimension B is the width of the front panel and the width of the back panel of closed protective aprons with fasteners on the sides. Dimension C is the girth of closed protective aprons with a fastener in the middle of the front or the back. Dimensions A, B and C are minimum dimensions.

Markings

Protective aprons should carry a statement of compliance that includes the name or trademark of manufacturer or supplier, the type of apron, the attenuation equivalent and X-ray tube voltage (and filtration), sizing, and mention of this standard.
your single source supplier