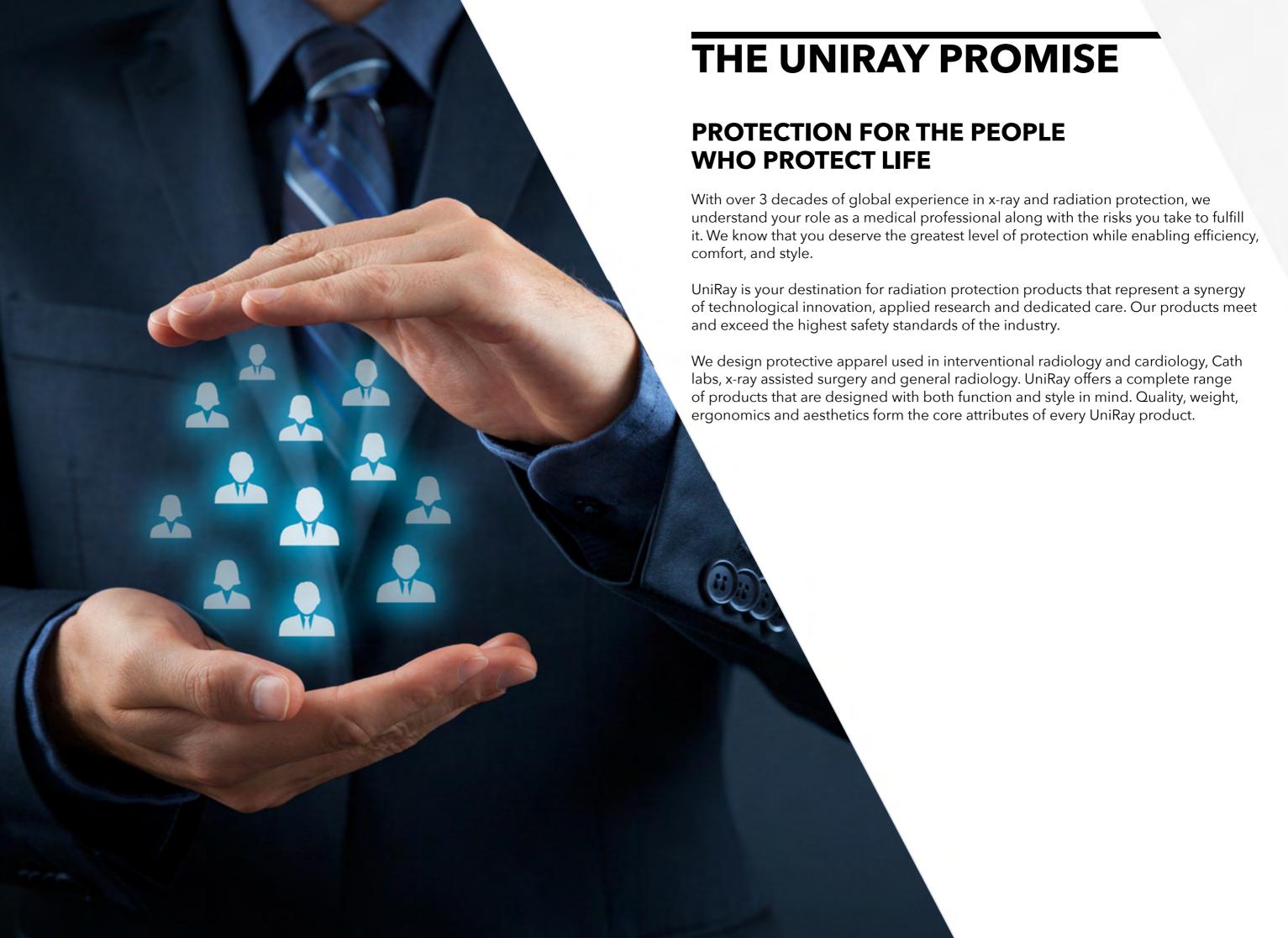
RADIATION PROTECTION PRODUCTS

UniRay



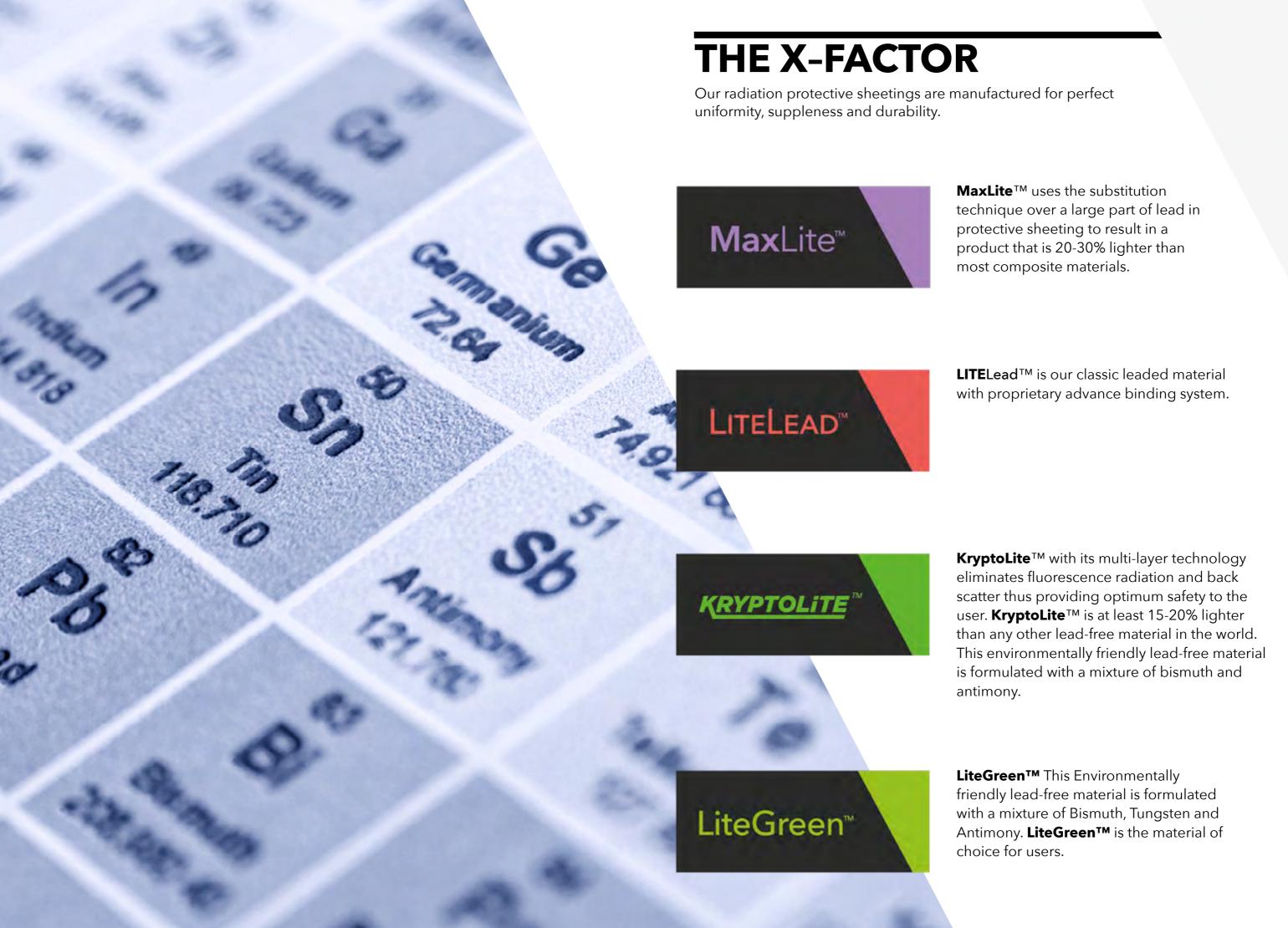




UNIRAY EQUALS SAFETY

When you use UniRay products, you are guaranteed optimum protection against scattered radiation.

UniRay products are tested according to IEC 61331-1:2014/ DIN EN 61331-1:2016, which establishes the protection of aprons across a specified range of tube voltages from 60 kV to 150kV. The new standard IEC EN 61331-1:2014/DIN EN 61331-1:2016, adopted a new testing methodology called "Broad Beam Geometry" (BBG) method to measure all Radiation Protection Aprons including lead, lead-free and lead composite protection materials. This testing methodology determines the lead equivalence of protection material considering fluorescent radiation as well as backscatter by the material itself.



01skirt & vest

ULTIMATE PROTECTION FOR USER



Optixx[™]

- Significant overlap on the front opening of the vest as well as the skirt (covering the waist area) also provides added protection
- Optimised weight distribution to reduce load on back and shoulders
- Full overlap on skirt circumference for added lower body protection





Maxx[™]

- Complete overlap on the front opening of the vest, as well as the overlap of the skirt for added protection
- Optimised weight distribution to reduce load on the back and shoulders
- Full overlap on skirt circumference for added lower body protection



Aprons are available in S/M/L/XL and custom sizes Aprons are available in LEV 0.25, 0.35, 0.5 mm Pb

02 DOUBLE-SIDED APRON

ALL ROUND PROTECTION SOLUTION



- Significant overlap in front for added protection
- Velcro closure for a perfect fit
- Flexible belt used as standard option, to release load on back and shoulder





- Full overlap in front for total protection
- Flexible belt used as standard option, to release load on back and shoulder
- Smart side closure to prevent accidental exposure





Aprons are available in S/M/L/XL and custom sizes Aprons are available in LEV 0.25, 0.35, 0.5 mm Pb

03 BACKSAVER APRON

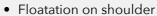
UPTO 50% REDUCTION IN LOAD ON BACK

UniRay's **Back**S/VER lifts the entire back panel of the apron with use of a membrane. An upthrust is created when pressure is exerted at specific points and directions. The thrust opposes the weight of the apron and sufficiently lifts it, taking the load off the shoulder, back and spine.

Available in Skirt & Vest, Double-Sided and Coat Apron Also available in magnetic closure.















• Built in belt, easy to clean and disinfect



04 COAT APRON

THE GOLD STANDARD FOR X-RAY ROOMS



- 05 SURGICAL APRON
- **MAKING SURGERIES EASIER**



- Complete frontal protection
- Easy drop off from under a surgeon's scrubs when removing
- Optimised weight distribution



- Complete frontal protection
- Smart and flexible insert with velcro closure
- Built-in shoulder relief pads



Aprons are available in S/M/L/XL and custom sizes Aprons are available in LEV 0.25, 0.35, 0.5 mm Pb

06 ZIPPER APRON

VEST WITH ZIP CLOSURE



- Zipper for better fitment
- Easy to clean for better hygiene



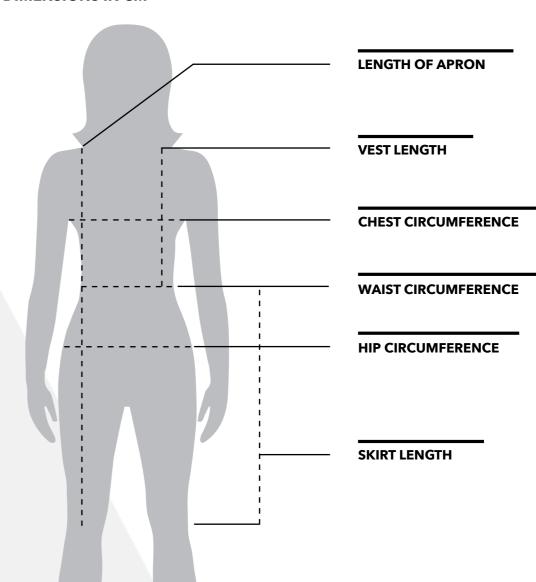
07 MEASUREMENTS

PERSONAL X-RAY PROTECTION - HOW TO MEASURE

These are body measurements; apparel size can be determined based on these measurements.

The length of the X-ray protection clothing should be selected in accordance with the International Standard IEC 61331-3:2014 with coverage to below the knee for complete protection.

ALL DIMENSIONS IN CM



08 THYROID SHIELDS & COLLARS

THE SENSITIVE GLAND PROTECTION

All thyroid shields can be affixed to the apron using a push button.



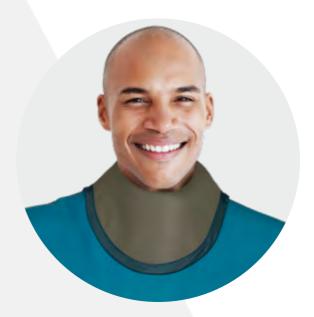
BALANCE Unique design to protect the thyroid & sternum



DUPLEX All round thyroid protection



UNIVERSAL An all time favourite



ELEGANCE For a snug fit enabling total protection





• Velcro closure



• Magnetic closure



• Velcro closure



09 LOWER BODY PROTECTION

PATIENT APRON



WITH SNAP BUCKLE & VELCRO CLOSURE

LEV 0.5 mm Pb in set of 4 sizes



WITH METALLIC RING CLOSURE

LEV 0.5 mm Pb in a set of 4 sizes



NETO FLEXIBLE GONAD SHIELD

LEV 1.0 mm Pb in set of 4 sizes



GONAD/OVARIAN SHIELD

LEV 1.0 mm Pb in set of 3 sizes

10 HEAD PROTECTION SUPERLATIVE PROTECTION AGAINST HAIR FALL



FEZ

Protection of frontal cortex

Top view



Available in universal size Available in 0.25, 0.35, 0.5 mm Pb

11 CUSTOMISATION

EXPRESS YOUR UNIQUE WAY

We maintain a vast design bank which can be embroidered on pockets or printed by our in-house precision embroidery equipment. We also provide a name tag of doctors or of a hospital for easy attachment on the apron pocket.



CUSTOMISED PRINT



NAME ON BUTTON TAG



CUSTOMISED LOGO



NAME WITH VELCRO TAG

12 SHOULDER PROTECTION

SLEEVES

Shoulder sleeves significantly reduce radiation on the shoulder joint. Radiation through armholes is also reduced. UniRay's shoulder sleeves allow complete freedom of hand movement during procedures. Sleeves are available in both Sewn-on and Button-on versions in either only left, only right or both shoulders versions.



SEWN-ON SLEEVE

- Factory attached
- Also available in full sleeves



BUTTON-ON SLEEVE

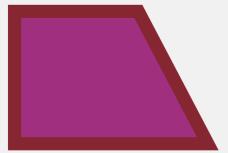
- Attaches easily to all models of Vests and Double-Sided Aprons
- Also available in full sleeves

13 FABRICS AND COLORS

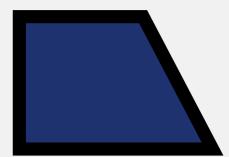
VIBRANT COLORS THAT LIFT MOODS

UNITEX™, is antibacterial, comfortable & stain resistant.

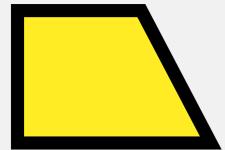
It is Invented as a soft & anti-wrinkle covering for all radiation protection apparel.



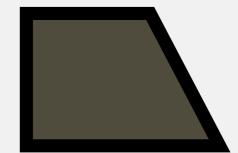
FUSCHIA Joyful



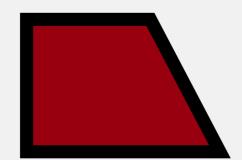
ROYAL BLUE Energetic



LEMON Cheerful



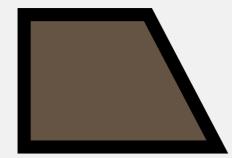
MOUNTAIN GREY Stable



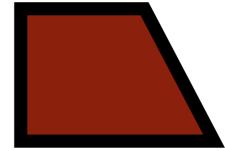
CHERRY Warm



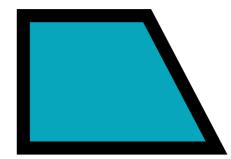
NAVY BLUE Classic



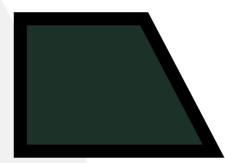
CAMEL Neutral



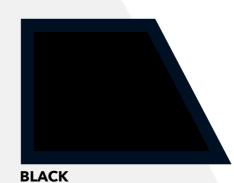
REDDynamic



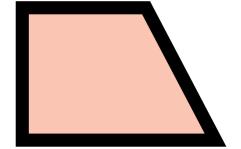
AZURE BLUESerenity



FOREST GREEN Natural

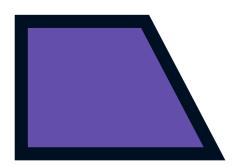


Mystery



SAKURA PINK

Optimism



PURPLE Inspiring



AQUA GREEN

Nurturing

14 FABRICS AND PATTERNS

VIBRANT COLORS THAT LIFT MOODS

UNITEX™, is antibacterial, comfortable & stain resistant.

It is Invented as a soft & anti-wrinkle covering for all radiation protection apparel.

BUTTERFLY

PUPPIES

HOOP



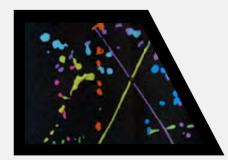
CAMOUFLAGE



LEOPARD



BAMBINO



RETRO

MAKING DENTAL X-RAYS SAFE



PANORAMIC APRON

Perfect for use with standing exposure on panoramic or tele radiographic and for digital volume tomography.



DENTAL APRON

Total protection for the patient in dentist's chair





Available in various sizes Available in 0.25, 0.35 mm Pb

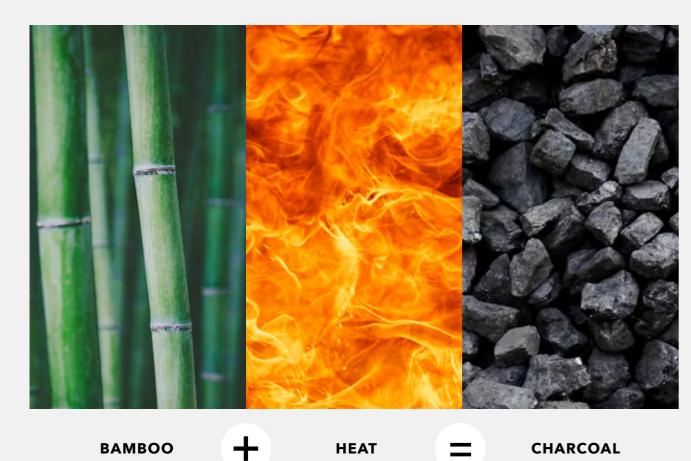
16 INNER FABRIC

UNITEX™ 360°

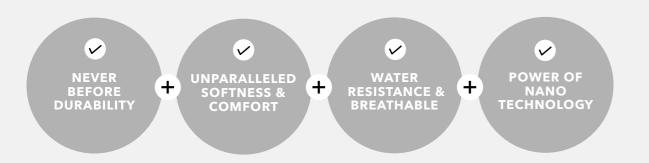
A futuristic range of apparel lining, made from breakthrough bamboo charcoal fiber.

Organic in DNA, cutting edge in process, this new-age fabric scores high on function and fashion.

THE PROCESS



THE BENEFITS

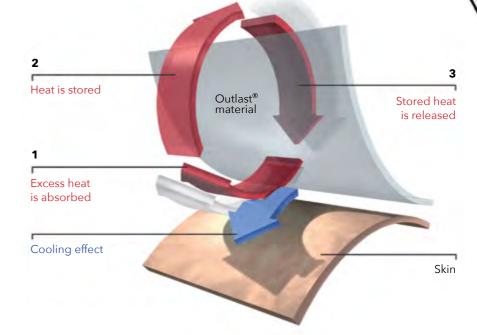


OUTLAST®- A UNIQUE TEMPERATURE REGULATED FABRIC

Outlast® technology uses phase change materials (PCM) to absorb, store and release heat to achieve an optimum heat and moisture management. This gives Outlast® technology the ability to continually regulate the skin's micro climate. As the skin gets hot, the heat is absorbed, and as it cools, that heat is released. Outlast® technology does not only balance temperature fluctuations but reduces moisture.

THE EFFECT

- PCM changes from solid to liquid and back
- Absorbs body heat
- Stores body heat
- Releases body heat
- Maintains comfort zone



THE BENEFITS

- Less overheating
- Less chilling
- Less perspiration
- More comfort
- Not too hot, not too cold, just right.

Studies show that Outlast® products can reduce the sweat production average between 30% to 50%



17 EYE PROTECTION

CLEAR VISION

European Standards 2013/59/Euratom has reduced the annual eye lens dose limit from 150 mSv/ year to 20 mSv/year for medical staff.

Available with 0.75mm Pb frontal and 0.5mm Pb lateral protection

· Optical corrections are available as single-vision, bifocal and progressive lenses.



WITHOUT EYE PROTECTION



WITH EYE PROTECTION





BRAZEN

Fitting frames with additional nose bridge for comfort



RABID

Frames designed to provide clarity and maximum protection





GASCAN

Light-weight wraparound frame that is comfortable for all day use



FRONT & SIDE

The user from frontal as well as lateral radiation



MAXX 30

Sporty model with padding on temples & bridge of the nose



FIT OVER

A universal solution to fit over the user's eye-wear with complete clarity and protection



VIENNA

Transparent design contrasted with blue, this x-ray protective glass has special material offering lateral protection



SYDNEY

Metal frame in silver color with adjustable silicone nose pads, this eye-wear has an all round protection of the eye



TOKYO

The eye-wear has been designed to protect the eyes from scattered radiation from all angles of incidence



SPORTY

Wraparound style of these frames helps protect the complete eye, with no danger of lateral radiation



ROME

Rectangular style frame with high quality permanent side shields



PARIS

Wraparound style with a rectangular shape and a durable and light-weight design



BERLIN

Sporty, light-weight frame with integrated lateral protection



HELSINKI

Wraparound style and a light-weight design featuring removable side shields



LONDON

Wraparound style and a light-weight design featuring removable side shields



NEW YORK

Wraparound style and a lightweight design featuring removable side shields with temple grip and comfortable nose pads



UNIVERSAL SIDE SHIELDS

Innovative lateral eye radiation protection with optimum hygiene

18 PRESCRIPTION SERVICE

ENHANCED VISION

Prescription service is available in single vison, bifocal and progressive versions. A template for Prescription Form for our Radiation Protection Glasses with corrective lenses is available.

	ay				
PRESCRIPTIO Prescription Values f		-	ses with Corrective	Lenses	
Customer/Name:			Da	te of Birth:	
Please Tick: ✓ Single Vision: Line			ıl:□ Anti-Reflective	coating:	/ Fog freecoating: □
Single Vision: Line			Anti-Reflective	e coating:	/ Fog freecoating:
Single Vision: Line		nber:			
Single Vision: Line Eyewear name and/or	r model nun	nber:			
Single Vision: Line Eyewear name and/or OD (oculus dextrus)	r model nun	nber:			
Single Vision: Line Eyewear name and/or OD (oculus dextrus) OD (oculus sinister)	Right eye	nber:			

19_{CT SHIELD}

Managing radiation doses during CT scans is key to avoid potential cancer risks and radiation damage to the sensitive tissues of the breast, thyroid gland and eyes.



EYE SHIELD

Reduces over 60% radiation to the eye from the CT scanner



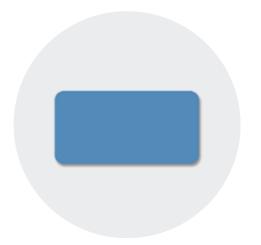
THYROID SHIELD

Provides over 65% protection to the sensitive thyroid gland and prevents tissue damage



BREAST SHIELD

Reduces cancer risk during CT scan by providing over 67% protection to the sensitive tissues of the breast



PEDIATRIC SHIELD

Protects children who are more sensitive to radiation than adults

20 HAND PROTECTION

PROTECT HANDS FROM SCATTERED RADIATION

Each disposable glove is manufactured in our bacteria-free, state of the art dipping facility.



ALL OUR GLOVES ARE GAMMA STERILIZED AND FEATURE:

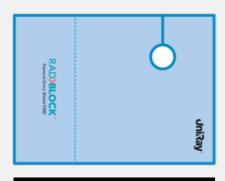
- A lead-free proprietary hypoallergenic formulation
- Maximum contact and tactile sensitivity
- Textured surface for perfect grip
- 100% sterile and powder-free
- Elimination of finger fatigue with a unique design
- Ease of wear and removal with rolled and beaded cuff
- Latex or Latex free

RADIATION ATTENUATION - Tested as per IEC 61331-1:2014 - (BBG Method)						
	LATEX G	LOVES	LATEX FREE GLOVES			
DIRECT BEAM ENERGY LEVEL	PRIME	SHEER	PRIME			
60 KV	69.6%	46.8%	63.1 %			
80 KV	60.9%	39.2%	54.4 %			
100 KV	53.8%	33.5%	47.4 %			
120 KV	48.2%	29.0%	42.0 %			
LE, mm Pb 60 to 120 kV	0.047	0.024	0.039			

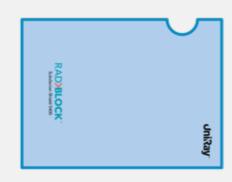
21 SHIELDS & DRAPES

RADIATION PROTECTION AT SOURCE

RadBlock provides protection at source when placed on the patient by creating a shade around the surgeon. Protection ranges between 75% to 96% of different types. RadBlock is available in a variety of protection levels. The BrainSaver cap provides upto 90% protection.



RADBLOCK - FEMORAL ENTRY SHIELD 5300



RADBLOCK - SUBCLAVIAN SHIELD 5400



RADBLOCK - PERIPHERAL SHIELD 5110

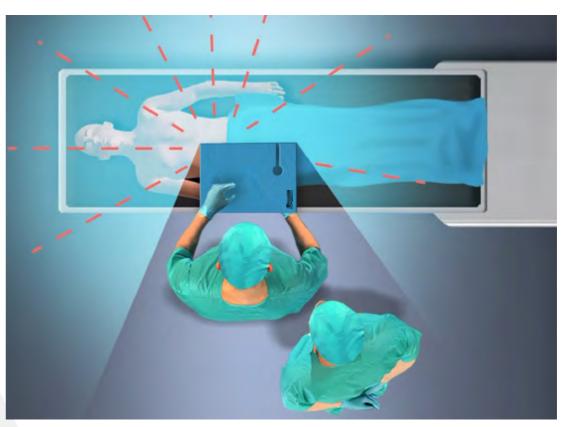


RADBLOCK - MULTIPURPOSE SHIELD 5511



RADBLOCK - BRAIN SAVER 9100

SHADE WITH RADBLOCK DRAPES AND COVERS



APPLICATION	PROCEDURE
INTERVENTIONAL RADIOLOGY	Dialysis
	Liver Biopsy
	Chemo Immobilisation
CARDIAC CATH LAB	Biliary Drainage
	Vertebroplasty
	Balloon Angioplasty
	Cardiac Catheterization
	Rotational Atherectomy
ENDOVASCULAR SURGERY	Trans catheter Aortic Valve Replacement
	Carotid angioplasty and Stenting
	Endovascular Aneurysm Repair
ELECTROPHYSIOLOGY (EP) LAB	Cardiac Mapping
	Cardiac Ablation
	Device Implantation

\ 4′

22 STORAGE SYSTEMS

COMPACT AND EFFICIENT

Our perfectly crafted range of storage system

MOBILE HANGERS

- Smart stainless steel system with brakes
- Detachable hooks for multiple uses

MOUNTED WALL RACKS

- Stainless steel swivel hangers for ease of use
- Space saver racks in 1,3,5 or other types are available





1 HANGER WALL SYSTEM



3 HANGER WALL SYSTEM



5 HANGER WALL SYSTEM

LOWER BODY METALLIC RING STORAGE





DETACHABLE HOOK

5 OR 10 HANGER MOBILE STORAGE RACK

23 OVERHEAD & LOWER BODY SHIELDS

SAFE AND DURABLE

Designed with strong, durable and overlapping lead panels 0.5mm Pb. Multiples designs and custom shields can be made for every type of equipment. All shields can be fabricated in any length or width.



OVERHEAD SHIELD

Panels that overlap with a fold-up center part

- A fold-up center part
- 70cm (height) X 100cm (width)



TABLE SHIELD

Shields can be swiveled or moved laterally

• Flexible curtains 70cm (height) X 92cm (width) are used as shields to fit over C-arm equipment.



LOWER BODY SHIELD

- Flexible overlapping panels
- Each panel is 70cm (height) X 20cm (width)



UniRay

Do connect with us and get more information about our other Radiation Protection Products.

UniRay Medical LLP

Mumbai, India

E: <u>sales@uniraymedical.com</u> | **W**: <u>www.uniraymedical.com</u>