



*Caring For
The Caregiver*



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Kiran_RPP_Brochure_International_2025



RADIATION PROTECTION PRODUCTS

www.kiranxray.com

About Trivitron Healthcare

By combining innovation with affordability and accessibility, we are a leading health technology enterprise that has been operating for more than two decades to improve health and medical care throughout the world, like no one else. We consider quality healthcare a fundamental right of people and envisage to make top-notch, cutting-edge healthcare technology affordable and accessible for all.

We lay great emphasis on research and development. Our team includes internationally acclaimed experts and leading scientists who innovate unprecedented health technologies suitable for healthcare needs of today and tomorrow.

We provide technological advancements to hospitals, individual healthcare providers, independent clinics, extended care facilities and laboratories, catering to healthcare needs in multiple verticals like In-Vitro Diagnostics, Imaging & Radiology, Critical Care & OT Solutions, Newborn Screening and Radiation Protection Products.

Through a growing network of 1500+ employees, 1200+ channel partners and 15 world-class manufacturing units spread throughout the world, Trivitron Healthcare is reaffirming its commitment to offer superior health technologies in 180+ countries, saving lives and improving care.

By simplifying and expanding our business, we are rapidly moving to establish ourselves as a global leader in health technology. We are committed to build a sustainable business that delivers value by offering best available health technology solutions for millions of people worldwide.



Radiation Protection



Operating Room



In-Vitro Diagnostics



Renal Care



Diagnostic Imaging



Turnkey Solutions



Newborn Screening



Critical Care



15 Manufacturing and R&D Facilities in India, Turkey, Finland and USA



Multinational Healthcare Group



Presence in 180 Countries

Global Manufacturing Facilities



CE/US FDA certified Kiran Medical Systems at Mumbai facility manufactures and exports Radiology accessories, components & Radiation Protection Products.



ASRB approved manufacturing facility at Kiran Mumbai & Pune manufactures and exports imaging products like X-Ray, C-Arm & Mammography to various countries.



CE/USMP certified ATMT manufactures and exports over 1000 Ultrasound Machines every year.



Biosystems & Trivitron joint venture facility located at TMT manufactures & exports a wide range of Biochemistry Reagents.



Andhra Pradesh MedTech Zone Ltd. Ultra Modern Medical Equipment Manufacturing & Testing Facilities.



LabSystems Diagnostics facility in Finland manufactures and exports CE-certified Newborn Screening and Diagnostics kits for Gastro, Cardiac Panel and Infectious Diseases.



CE Certified manufacturing facility in Chennai Inaugurated by the Honorable Prime Minister of India, Shri. Narendra Modi and Prime Minister of Finland, Mr. Juha Sipilä manufactures and exports a wide range of IVD products.



Borne Sanayi Unvanli Dis Tic A.S. at Turkey is involved in Research and Development of Newborn Screening Tests, Hematology Solutions, Clinical Reagents and Quality Control materials.



USA Manufacturing - Kennedy Medical Manufacturing and R&D Facilities focusing on Trivitron's core segments - X-Ray Shielding Material, Consumables and also Noise Control Products.



CE Certified manufacturing facility exports products like ICU Machines, ICU Ventilators, Patient Monitors and Defibrillators.



CE-certified Trivitron facility manufactures and exports Operating Room products like Ultrasonic Modular OT, Pendents, Bed Head Units, etc.

Kiran & You!

A Story of Mutual Trust & Confidence

Kiran is one of the most respected global brands in the field of Radiology.

The Kiran Journey started in 1974 with our first set of customers who placed their complete trust and confidence in our Radiology products. At Kiran, we have continued to evolve and innovate with the hope of bringing the best technology to our valued customers. Over the past 5 decades, Kiran has become one of the leading solution providers in Medical Imaging, catering to customers in 180 countries across the world.



Kiran is driven by 3 Cardinal Business Principles



Innovation



Quality



Customer Service

Modalities of Focus



Radiation Protection



CT Scanner



Mobile Radiography



Fixed Radiography



Surgical C-Arm



Mammography



Contrast Media



Imaging Accessories & Consumables

Kiran - committed to the field of Radiology catering to customers across 180 countries



Manufacturing Facilities in Mumbai & Visakhapatnam - India



The Journey So Far!



World-Class Radiation Protection Products

Adequate Protection against scatter radiation is of paramount importance for health care professionals working with Radiography, CT, Mammography, C-Arm and Cathlab Systems.

Exposure to a very high dose of radiation over a short period of time can produce acute effects such as redness of skin, hair loss, radiation burns, or even acute radiation syndrome. These are known as the **Deterministic Effects** of radiation exposure.

Exposure to low dose scatter radiation over an extended period of time may lead to a significant risk of long-term effects such as cancer, which may appear years or even decades later. These are known as the **Stochastic Effects** of radiation exposure.

It is important to protect medical professionals against the stochastic effects of radiation exposure. Because the effects of exposure is not immediately apparent, it is often ignored and procedures are performed every single day all across the world without optimum protection. The scatter radiation stealthily acts as a silent killer.

Kiran's offerings in radiation protection are the result of relentless R&D to offer maximum protection & comfort with adherence to Global Quality Standards and flexibility to customize the apron based on your requirements.

Saving the Saviours

Constant innovation in material science has helped Kiran develop some of the world's finest Radiation Protection products that offer the highest level of radiation attenuation, are lightweight, ergonomic and aesthetically appealing.

Kiran offers a wide range of radiation protection products for Interventional Radiology, Cardiology Procedures, CT Procedures, Image Guided Surgery and General Radiology.

Protection

Kiran's Radiation Protection products are a result of extensive R&D, innovation and are made with world-class core materials which offer maximum radiation attenuation that protects the healthcare providers from the damaging effects of ionizing radiation generated by X-Ray Systems, C-Arm Systems, Cathlabs, Fluoroscopy Systems and CT Scanners.

Comfort

Kiran's Radiation Protection products are ergonomically designed considering the needs of surgeons, doctors and technicians. Our aprons are lightweight and are offered in a wide range of designs that suit various clinical applications. Every aspect of the apparel is designed for comfort with lightweight core material, world-class fabric, shoulder pads, belts etc. ensure maximum comfort throughout the procedure and results in reduced fatigue to the care providers.

Elegance

Kiran offers flexibility to customize the Radiation Protection products based on the personal preferences and comfort requirements.

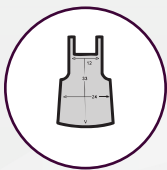
Aprons | Shields | Gloves | Eyewear | Storage Systems | RadShield



Wide Range of Customization Options



Colors



Sizes



Name Tags



Embroideries



Belts



Closures

*
KIRAN

Safe
Smart
Stylish



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Imaging Accessories & Consumables

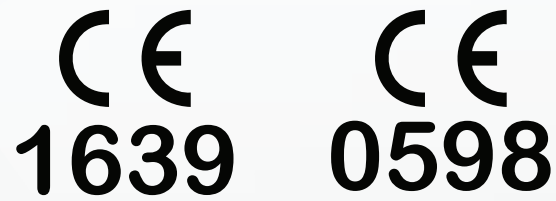
98-107

Compliance to International Quality Standards

Our quality systems are assessed and certified as per the guidelines of ISO 9001:2015 and ISO 13485:2016.

Most of our products conform to the stringent quality norms of CE, as specified by European Council's Medical Device Directive (MDD) contained in 93/42/EEC, NB no. 1639 as well as Regulation (MDR) 2017/745 & also PPE Regulation (EU) 2016/425 NB no. 0598.

Most of our Radiation Protection Products meet or exceed IEC 61331-1:2014, IEC 61331-3:2014, ASTM F2547 standards.



Health
Canada



ANVISA



R&D Facility

Kiran has its own state-of-the-art R&D facility in India and the USA.

Testing Facility

Kiran has its own state-of-the-art Radiographic Testing Centre to test the products during research and development as well as in-process quality control and final testing before release for sale.



The Secret Ingredients

World-class core materials have been the cardinal components of Kiran's Radiation Protection Products. The core materials are made possible through extensive research in particle engineering and cutting-edge material science and offer maximum protection from ionizing radiation.

Wide Range of Core Materials

ZeroLeadAIR™

The World's Finest



10% Lighter than Zerolead



Bismuth, Antimony & Rare Earth Elements



Eco-friendly Material



PVC-free



Lesser Fatigue



Ultimate Comfort


Applicable Standards

ASTM F2547

Optimal kV Range: 70-110kV

ZeroLead®


An Eco-friendly Technological Breakthrough




Extremely Light




Bismuth, Antimony & Rare Earth Elements




Eco-friendly Material



PVC-free



Resistant to Humidity



Lesser Fatigue

Applicable Standards

ASTM F2547

IEC 61331-1: 2014

Optimal kV Range: 60-120kV

ultralite™

Optimized Weight



Lighter than Leadlite



Ultra-fine Lead & Antimony Particles



Optimum Safety



PVC-free



Resistant to Humidity



Ergonomic Comfort

Applicable Standards

ASTM F2547

IEC 61331-1: 2014

Optimal kV Range: 50-150kV

LEADLITE®

The Industry Standard Re-defined



Lightest Lead Material



Ultra-fine Lead Particles



Use of minimum Bonding & Mineral oils



PVC-free



Resistant to Humidity



Longevity

Applicable Standards

ASTM F2547


IEC 61331-1: 2014

Optimal kV Range: 50-150kV


Aprons - Weight Chart




Double Sided Apron - Maxima

Size/Type	LE (in mm Pb)		Dimensions (in cm)		Weight of Articles (in Kg)			
	Front	Back	W/G	L		ZeroLead®	ultralite™	LEADLITE®
L	0.50	0.25	60	100	5.04	5.90	6.08	7.16


Double Sided Apron - Optima

Size/Type	LE (in mm Pb)		Dimensions (in cm)		Weight of Articles (in Kg)			
	Front	Back	W/G	L		ZeroLead®	ultralite™	LEADLITE®
L	0.50	0.25	60	100	4.94	5.80	5.98	7.06

Vest: Maxima


Size/Type	LE (in mm Pb)		Dimensions (in cm)		Weight of Articles (in Kg)			
	Front	Back	W/G	L		ZeroLead®	ultralite™	LEADLITE®
L	0.50	0.25	60	63	3.60	3.80	4.02	4.60

Vest: Optima


Size/Type	LE (in mm Pb)		Dimensions (in cm)		Weight of Articles (in Kg)			
	Front	Back	W/G	L		ZeroLead®	ultralite™	LEADLITE®
L	0.50	0.25	60	63	3.50	3.70	4.10	4.30




Skirt - Maxima/Optima

Size/Type	LE (in mm Pb)		Dimensions (in cm)		Weight of Articles (in Kg)			
	Front	Back	W/G	L		ZeroLead®	ultralite™	LEADLITE®
L	0.50	0.25	192	57	3.17	3.52	3.66	4.20

Coat Apron

Size/Type	LE (in mm Pb)		Dimensions (in cm)		Weight of Articles (in Kg)			
	Front	Back	W/G	L		ZeroLead®	ultralite™	LEADLITE®
L	0.50	-	60	100	3.35	3.90	4.10	4.64

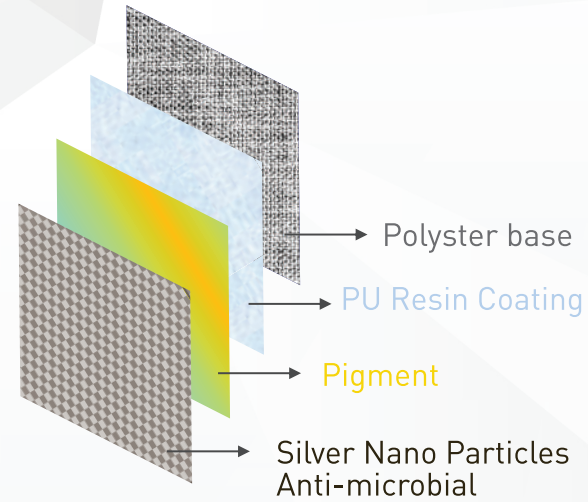
Coat Apron with Attached Thyroid Collar

Size/Type	LE (in mm Pb)		Dimensions (in cm)		Weight of Articles (in Kg)			
	Front	Back	W/G	L		ZeroLead®	ultralite™	LEADLITE®
L	0.50	-	60	100	4.14	4.50	4.90	5.30

Satin *touch*

Smooth • Comfortable • Hygienic

Satin Touch includes a range of fabrics that are infused with nanoparticles that impart antimicrobial properties to the fabric. The advanced material provides all the functional benefits, while offering a super smooth satin feel, making it extremely comfortable to wear over long durations.



Wide Range of Classic Color Options



Premium Color Combinations



*Additional color combinations available upon request

TUX Fabric

Elegant • Comfortable • Durable

Tuxedo Like Fabric Feel

TUX Fabric is a premium material that seamlessly blends sophistication with functionality, offering a luxurious tuxedo-like fabric feel. Its innovative composition ensures exceptional resilience and practicality, making it the perfect choice for those seeking an impeccable balance between style and performance. TUX Fabric stands out for its superior quality and effortless elegance.

Why Choose Tux Fabric?



Highly Durable



Water Repellent



Stain Resistant



Exceptional Comfort



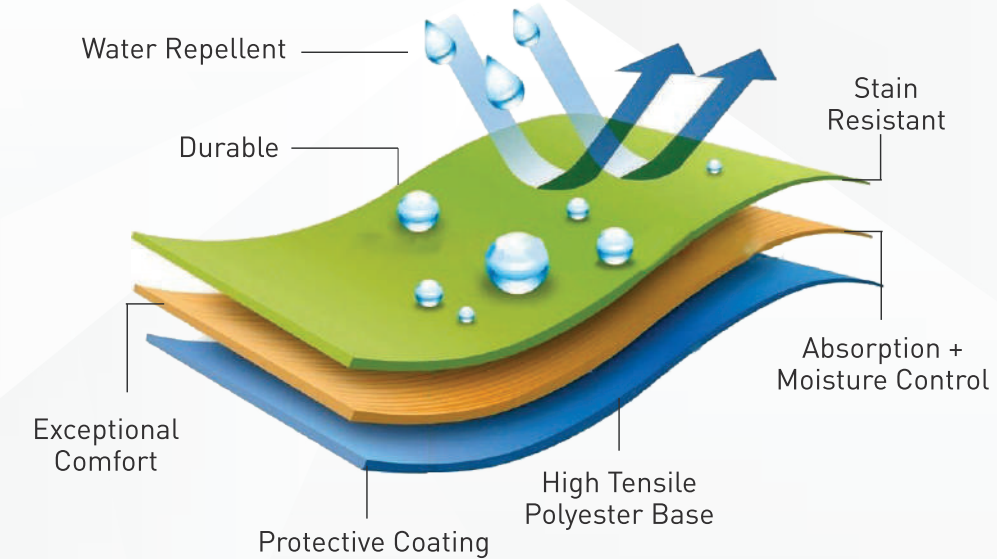
Absorption + Moisture Control



Protective Coating



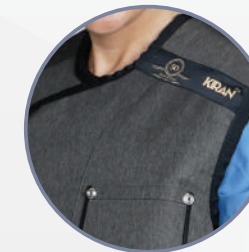
High Tensile Polyester Base



Color Options:



Forest



Graphite



Ocean



Nylon Fabric

Durable • Versatile • Sleek

Nylon fabric is widely recognized for its exceptional strength and unmatched versatility, making it a popular choice for radiation protection products. The nylon base provides enhanced resistance to stretching and tearing, ensuring overall product longevity.



Highly Durable



Water Repellent



Stain Resistant



Light Weight



High Tensile Nylon Base

Color Options:



Embossed Flamingo



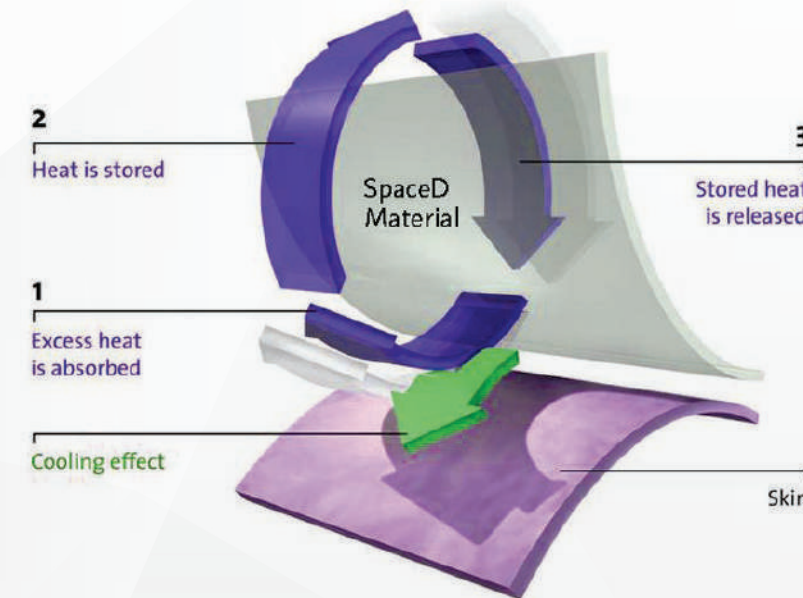
Embossed Emerald



SPACEED

CERTIFIED SPACE TECH APRON

How does SpaceD technology work?



One of Kiran's most unique offerings is its temperature-regulating inner fabric, OUTLAST®-SpaceD Technology. It uses phase-changing materials (PCM) to absorb, store and release heat, ensuring optimal heat and moisture management. It helps maintain the body's ideal temperature by absorbing excess heat when the skin warms up and releasing it when the skin cools down.

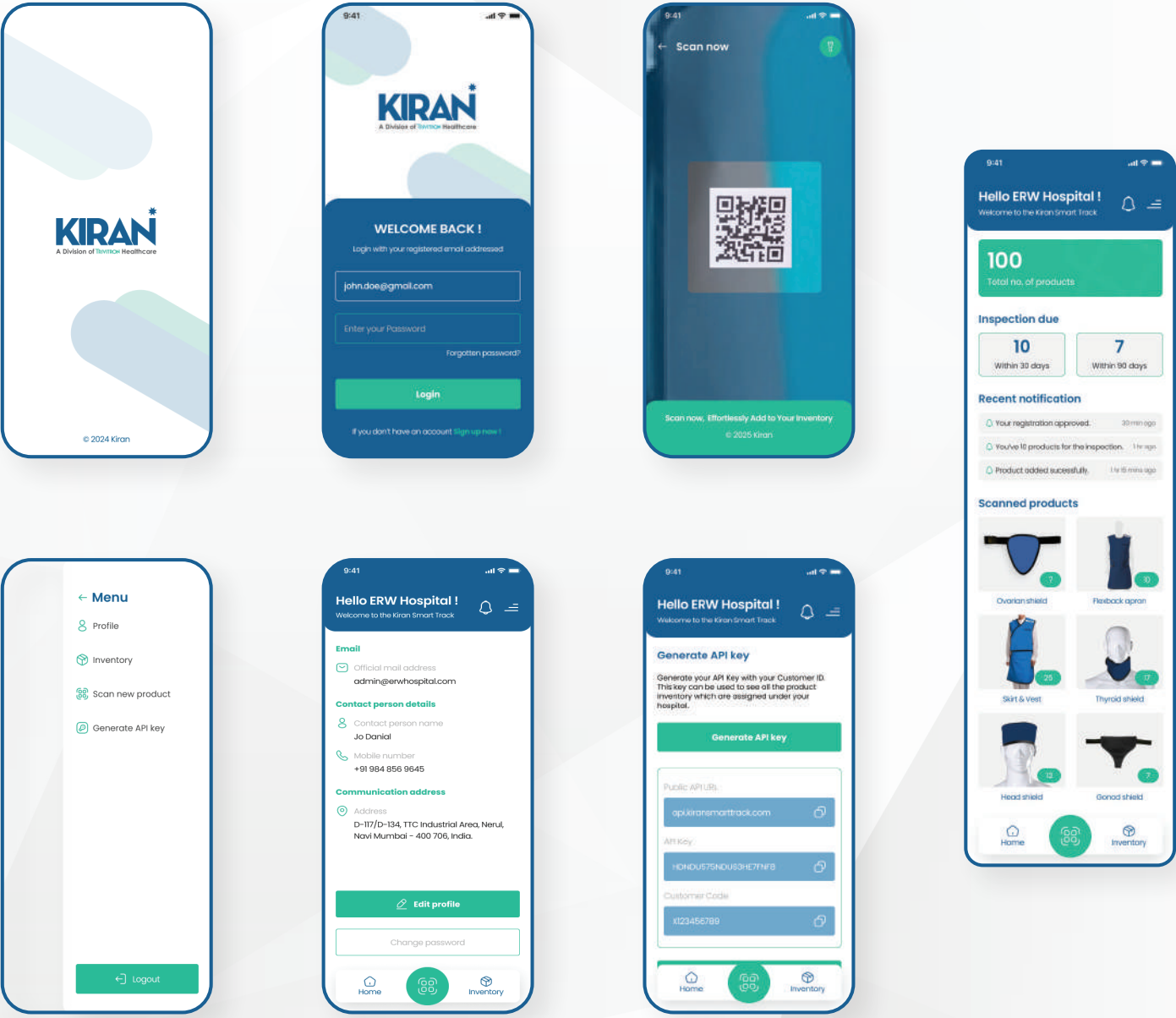


Aprons with QR code tracking system through Smart App

- Stay ahead of safety standards with real-time monitoring of product shelf life, quality, and performance
- Minimize manual record-keeping with automated data updates
- From manufacturing details to protection levels displayed
- Track every item in real-time with unique codes

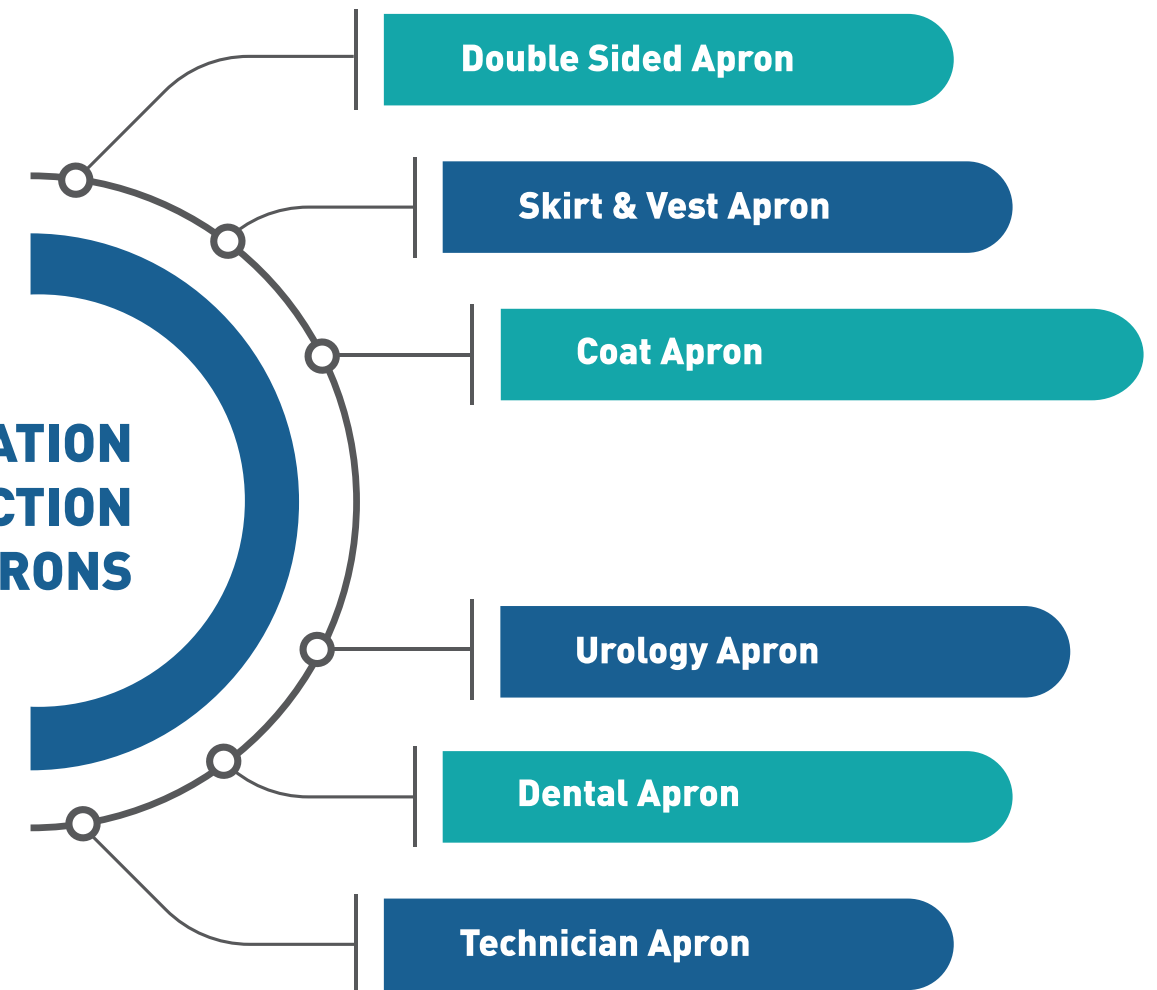


Smart App Interface



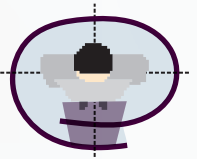


RADIATION PROTECTION APRONS





Protection Area



Fabric Options

Satin *touch*
TUX *Fabric*
Nylon *Fabric*
SPACEED
CERTIFIED SPACE TECH APRON

Ideal for

- 1. Cathlabs
- 2. Interventional Surgical Procedures
 - Interventional Radiology
 - Interventional Cardiology
 - Interventional Urology

Lead Equivalence

Front Protection

Back Protection

0.50 mm Pb	0.35 mm Pb	0.25 mm Pb
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Customization Options



Extra belt outside
(to reduce back &
shoulder stress)



Name Tag



Embroidery
(in Pockets)



Thyroid Shield
with Attachable Loop

Anti-skid Shoulder Pads to reduce stress & for equal weight distribution

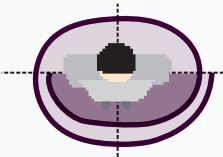
Pockets included

Complete frontal overlap for added protection against scattered radiation

4-inch or 6-inch Supportive Wide Belt balances weight between the shoulders and hips while providing lumbar support

Snap lock for comfortable fit

Protection Area



Fabric Options

Satin *touch*
TUX *Fabric*
Nylon *Fabric*
SPACEED
CERTIFIED SPACE TECH APRON

Ideal for

- 1. Cathlabs
- 2. Interventional Surgical Procedures
 - Interventional Radiology
 - Interventional Cardiology
 - Interventional Urology

Lead Equivalence

Front Protection

Back Protection

0.50 mm Pb

0.35 mm Pb

0.25 mm Pb

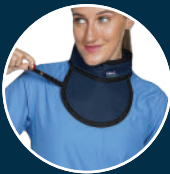
Customization Options



Name Tag



Embroidery
(in Pockets)



Thyroid Shield
with Attachable Loop



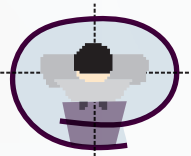
Anti-skid Shoulder Pads to reduce stress & for equal weight distribution

Pockets included

Vest Closure with 3 Velcros (2 inch each) for comfortable fit

Vest overlaps skirt for upto 15 cm which provides additional lower body protection

Protection Area



Fabric Options

Satin *touch*
TUX *Fabric*
Nylon *Fabric*
SPACEED
CERTIFIED SPACE TECH APRON

Ideal for

- 1. Cathlabs
- 2. Interventional Surgical Procedures
 - Interventional Radiology
 - Interventional Cardiology
 - Interventional Urology

Adjustable Velcro panels for comfortable fit

Snap lock for proper fit

Lead Equivalence

Front Protection

Back Protection

0.50 mm Pb

0.35 mm Pb

0.25 mm Pb

Customization Options



Name Tag



Embroidery (in Pockets)



Thyroid Shield with Attachable Loop



Anti-skid Shoulder Pads to reduce stress
& for equal weight distribution

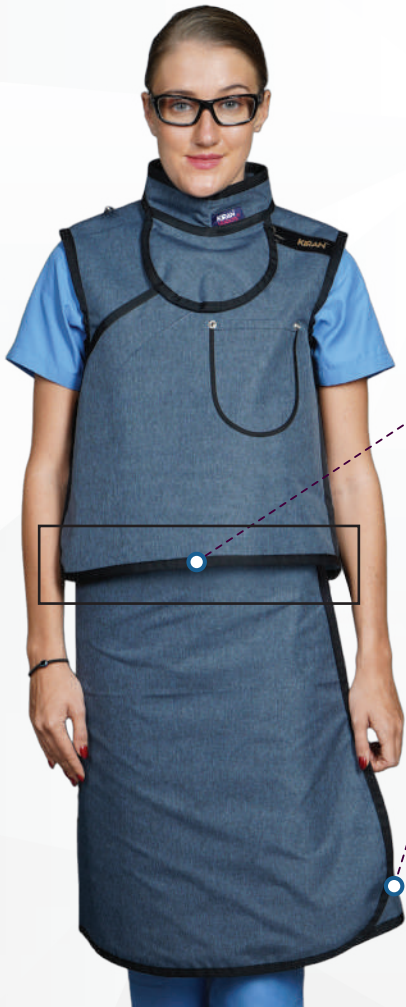
4-inch Velcro closure
for a snug fit



Snap lock for
proper fixation

Pockets included

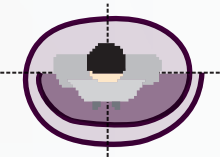
Front opening for
ease of wearing



Vest overlaps the skirt for
sufficient length to ensure
protection during movements
like bending forward

Back slit design for
better mobility (optional)

Protection Area



Fabric Options

Satin *touch*
TUX *Fabric*
Nylon *Fabric*
SPACEED
CERTIFIED SPACE TECH APRON

Ideal for

1. Cathlabs
2. Interventional Surgical Procedures
 - Interventional Radiology
 - Interventional Cardiology
 - Interventional Urology

Lead Equivalence

Front Protection

Back Protection

0.50 mm Pb

0.35 mm Pb

0.25 mm Pb

Customization Options



Name Tag



Embroidery
(in Pockets)



Thyroid Shield
with Attachable Loop

Coat Apron

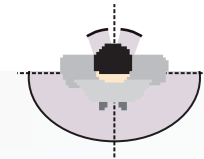
Coat Apron

Anti-skid Shoulder Pads to reduce stress & for equal weight distribution

Pockets included

Complete frontal protection

Protection Area



Fabric Options

Satin *touch*
TUX *Fabric*
Nylon *Fabric*
SPACEED
CERTIFIED SPACE TECH APRON

Ideal for

- 1. Interventional Radiology Procedures
- 2. Diagnostic Imaging Procedures

Velcro closure for enhanced fit

Lead Equivalence

Front Protection

0.50 mm Pb

0.35 mm Pb

0.25 mm Pb

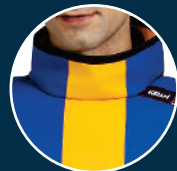
Customization Options



Name Tag



Embroidery
(in Pockets)



Thyroid Shield
(Stitched & Integrated)

Coat Apron With Front Snap Lock

Coat Apron With Back Snap Lock

Anti-skid Shoulder Pads to reduce stress & for equal weight distribution

Pockets included

Wide Stretchable Wing enables adjustments & provides a snug fit and shoulder relief

Front Snap Lock for proper fixation



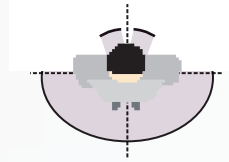
Anti-skid Shoulder Pads to reduce stress & for equal weight distribution

Pockets included

Complete frontal protection



Protection Area



Fabric Options

Satin *touch*
TUX *Fabric*
Nylon *Fabric*
SPACEED
CERTIFIED SPACE TECH APRON

Back Snap Lock for proper fixation



Lead Equivalence

Front Protection

0.50 mm Pb

0.35 mm Pb

0.25 mm Pb

Customization Options

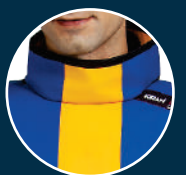


Name Tag



Embroidery
(in Pockets)

Accessories



Thyroid Shield
(Stitched & Integrated)

Anti-skid Shoulder Pads to reduce stress & for equal weight distribution

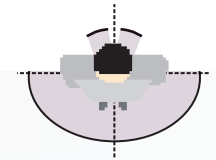
Pockets included

Velcro closure for a enhanced fit

Complete frontal protection

Also available in Flex Back (Elastic belt provides lumbar support & improved fit)

Protection Area



Fabric Options

Satin *touch*

TUX *Fabric*

Nylon *Fabric*

SPACEED
CERTIFIED SPACE TECH APRON

Ideal for

- 1. Interventional Radiology Procedures
- 2. Diagnostic Imaging Procedures

Lead Equivalence

Front Protection

0.50 mm Pb

0.35 mm Pb

0.25 mm Pb

Customization Options



Name Tag



Embroidery (in Pockets)



Thyroid Shield (Stitched & Integrated)

Coat Apron with Integrated Thyroid Shield

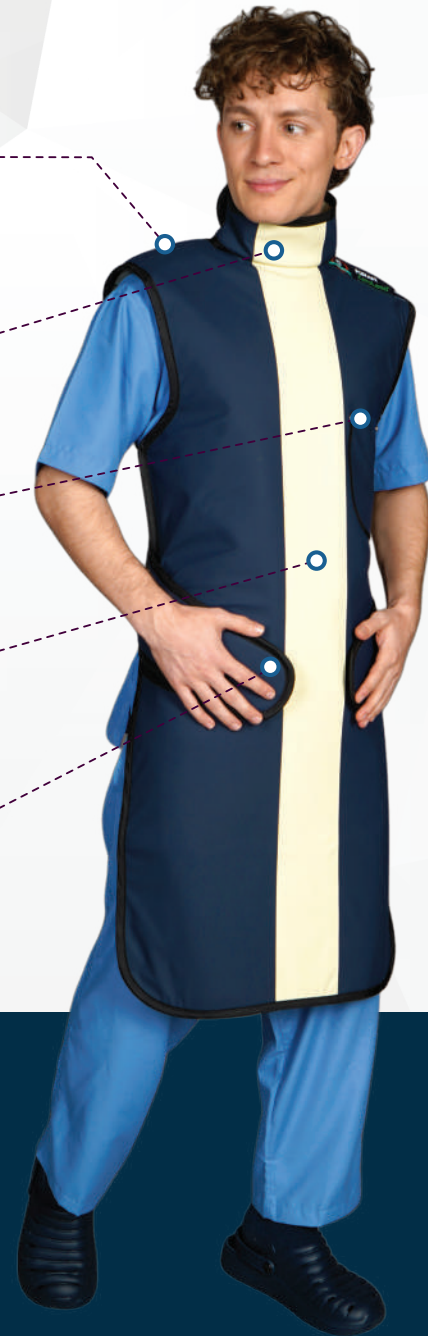
Anti-skid Shoulder Pads to remove stress & for equal weight distribution

Available with Integrated Thyroid Shield

Pockets included

Complete frontal protection

Velcro closure for a comfortable fit



Urology Apron

Highlights

- Sitting during x-ray procedures can result in unnecessary radiation exposure if adequate protection is not provided
- The Urology Apron addresses this with a unique three-panel system at the bottom of the apron
- Three-panel system offers maximum coverage without compromising on comfort or ease of movement
- The apron ensures that medical professionals can stay focused on their work without worrying about radiation exposure during prolonged procedures



Fabric Options

Satin *touch*
TUX *Fabric*
Nylon *Fabric*
SPACEED
CERTIFIED SPACE TECH APRON

Lead Equivalence

Front Protection

0.50 mm Pb

0.35 mm Pb

0.25 mm Pb

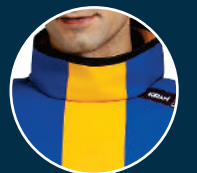
Customization Options



Name Tag



Embroidery
(in Pockets)



Thyroid Shield
(Stitched & Integrated)

ZeroLead *AIR*™

ZeroLead®

ultralite™

LEADLITE®

Dental Aprons

- Designed for complete protection while being X-Rayed on a dental chair
- The apron drapes comfortably over patient, covering sensitive areas from exposure to scattered radiation during radiography
- Both Adult & Child sizes are available
- Available with thyroid collar attached option (Velcro / Magnetic Closure)

Model	Dimensions (in cm)			
	Adult		Child	
	Length	Width	Length	Width
Economic	70	60	60	40
Standard	80	60	60	45
Premium	90	60	70	45

Integrated Thyroid Collar

Lead Equivalence

0.25 mm Pb

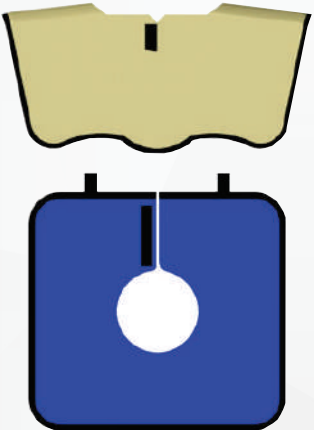
0.30 mm Pb

Panoramic Apron

Economy

Optimum protection during Panoramic Radiography

Back split with Velcro closure for adjustable fit



Standard

Complete Frontal Protection, Optimum Back Protection

Back split

Available with Velcro/Magnetic Lock



Fabric Options

Satin touch

TUX Fabric

Nylon Fabric

SPACEED

CERTIFIED SPACE TECH APRON

Lead Equivalence

0.25 mm Pb

0.30 mm Pb

0.35 mm Pb

0.50 mm Pb

Premium

Extended & Equal protection
on both front & back

Velcro closure on shoulder



Model	Dimensions (in cm)			
	Adult		Child	
	Length	Width	Length	Width
Economic	35	60	-	-
Standard	80	55	-	-
Premium	80	60	60	45

Lead Equivalence

0.25 mm Pb

0.30 mm Pb

0.35 mm Pb

0.50 mm Pb

Technician Apron

- Provides protection to the dental staff during radiography
- Adjustable strap and buckle for more secure, ergonomically superior fit



Model	Dimensions (in cm)	
	Adult	
	Length	Width
Standard	100	60
Premium	110	70

Lead Equivalence

0.25 mm Pb

0.30 mm Pb

0.35 mm Pb

0.50 mm Pb

Fabric Options

Satin *touch*

TUX *Fabric*

Nylon *Fabric*

SPACEED

CERTIFIED SPACE TECH APRON

Coat Apron - Child

Dental Apron - Child

Fabric Options

Satin *touch*
TUX *Fabric*
Nylon *Fabric*
SPACEED
CERTIFIED SPACE TECH APRON



Coat Apron



Coat Apron with
Integrated Thyroid Shield



Dental Apron



Dental Apron with
Thyroid Shield

Front Protection

0.50 mm Pb

0.35 mm Pb

Back Protection

0.25 mm Pb

Front Protection

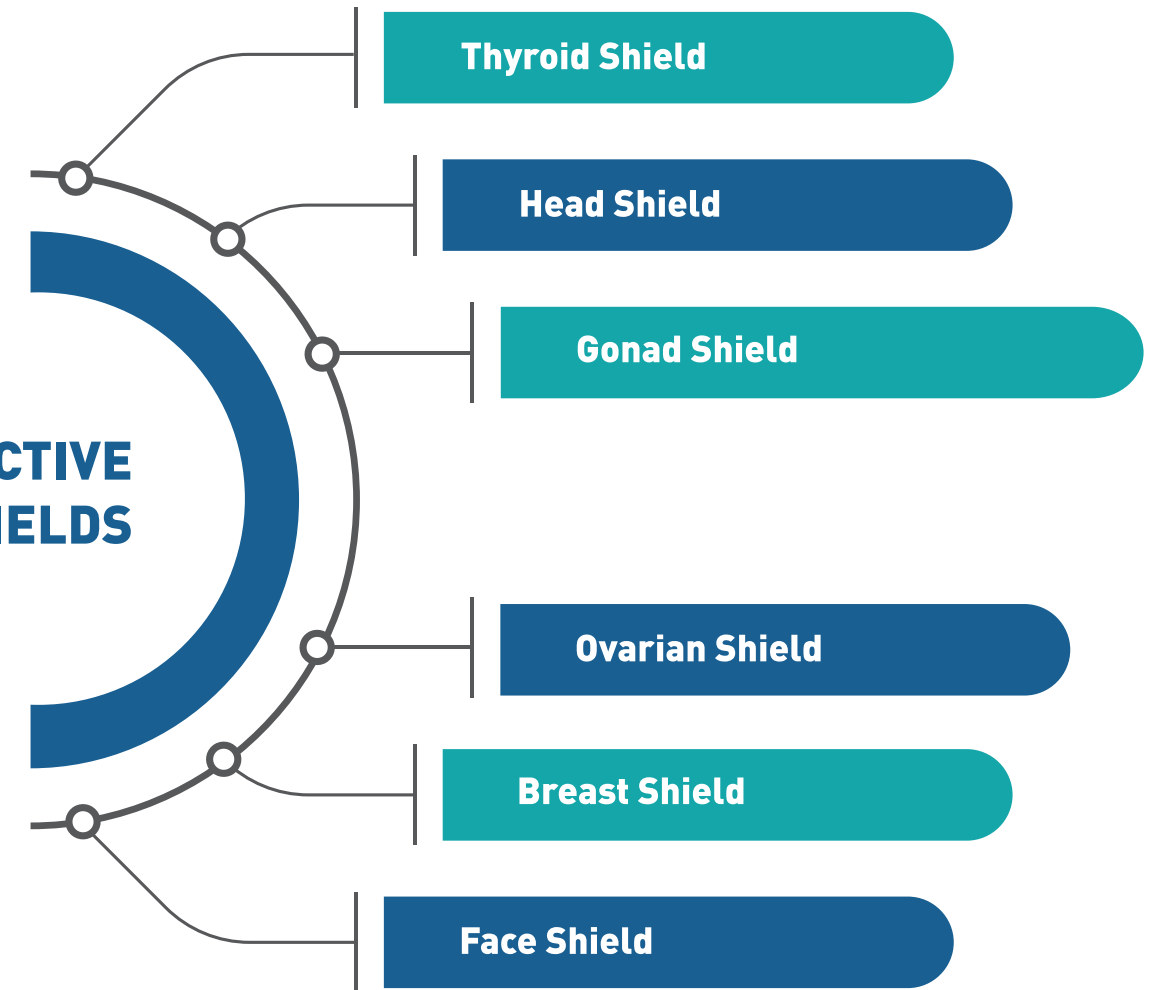
0.30 mm Pb

0.35 mm Pb

0.50 mm Pb



PROTECTIVE SHIELDS



Thyroid Shield

Kiran's wide range of thyroid shields provide complete protection to the neck and sternum from ionizing radiations.

Thyroid Shield

Ultrastimline

Ergonomic design for comfort



Easy to attach with all the apron variants



Velcro/Magnetic closure

Classic



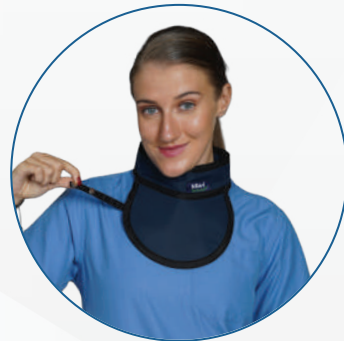
All-time popular design

Wide coverage area

One size fits all

Velcro closure

Elegant



Easy to attach with Kiran's Double Sided Apron & Vest

Adjustable fastner

Velcro closure

Slimline



Provides perfect fit and protection

Easy to attach with all apron variants

Velcro closure

Also available with Magnetic closure

Harmony



Collar design which perfectly fits thyroid glands

Velcro closure

Fabric Options

Satin *touch*
TUX *Fabric*
Nylon *Fabric*
SPACE
CERTIFIED SPACE TECH APRON

Lead Equivalence

0.50 mm Pb

0.35 mm Pb

Head Shield

Head Shield



Designed for ease of wearing and removal

The head and ears stay safe, inside head gear, from radiations



Disposable Head Shields are also available



Flexible & Supple



Complete protection from scattered radiation

Lead Equivalence

0.25 mm Pb

0.35 mm Pb

0.50 mm Pb

1.00 mm Pb

Gonad Shield

Gonad Shield



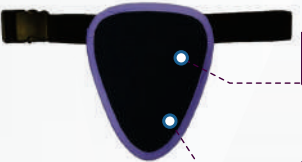
Ideal to protect the male reproductive organ

Designed for ease of wearing & removal with adjustable Velcro Panel

Available in one-size-fits-all & child size

Lead Equivalence
0.5mm Pb, 1.00mm Pb

Ovarian Shield



Ideal to protect the female reproductive organ

Designed for ease of wear & removal with adjustable Velcro Panel

Available in one-size-fits-all & child size

Lead Equivalence
1.00 mm Pb



Breast Shield



Protection for female breasts

Lead Equivalence
0.5mm Pb, 1.00mm Pb

Fabric Options

*available for all protective shields

Satin *touch*

TUX *Fabric*

Nylon *Fabric*

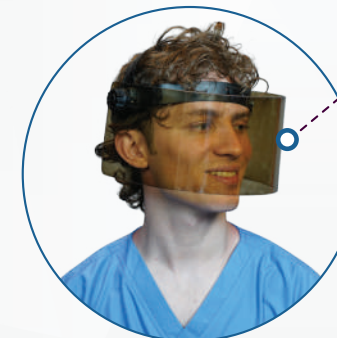
SPACEED
CERTIFIED SPACE TECH APRON

Face Shield



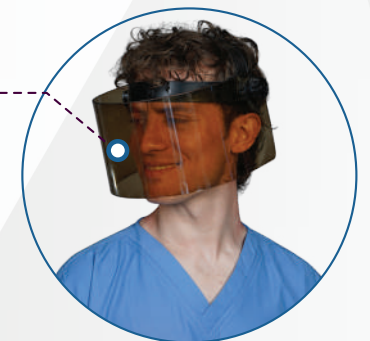
Kiran's Face Shield features an adjustable ratcheting head strap suitable for all sizes, making it particularly beneficial for individuals who wear glasses or require full-face protection.

- Eliminates blind spots caused by standard glasses, providing a wide and unobstructed field of view
- Equipped with a scratch-resistant coating
- Made with lead acrylic and a durable scratch-resistant finish

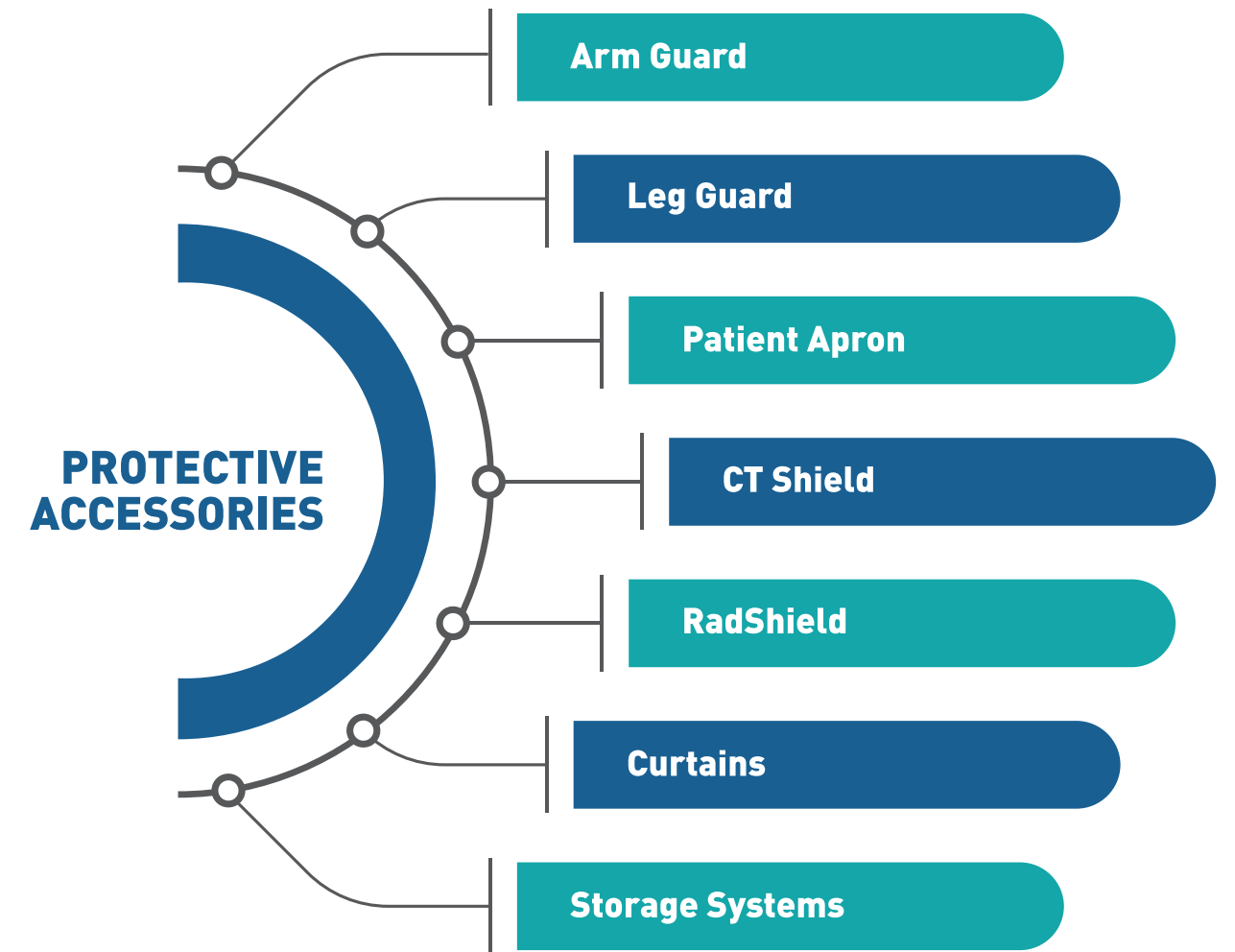


Designed for protection of eyes and face during radiological procedures

Adjustable headpiece for comfortable fit and adjustment of the angle of shield



Lead Equivalence
0.12 mm Pb



Arm Guard

Kiran’s Arm Guard offers protection to the upper part of the body from scattered radiation.

- Prevents radiation from being scattered to the shoulders and arms
- Can be attached with hook-and-loop fasteners and a snap-lock
- Can be paired with wrap around styles apron and vest
- Can be used in all radiology procedures
- One size fits all



Leg Guard

Kiran’s Leg Guard offers complete protection to the lower part of the body from scattered radiation.

- Protects the leg from radiation exposure
- Velcro closure for easy adjustments
- One size fits all



Patient Apron

A patient apron is used to protect patients from direct and scattered radiation during X-ray examinations.

- Universal use as gonad and ovarian shields
- Complete lower body protection
- Designed to provide comfort and adequate protection
- Adjustable back strap for snug fit
- Child size available

Dimension

30 x 30 cm, 40 x 40 cm, 50 x 50 cm

Patient Apron without a belt option is also available



Fabric Options

Satin *touch*

TUX *Fabric*

Nylon *Fabric*

SPACEED
CERTIFIED SPACE TECH APRON

Lead Equivalence

0.50 mm Pb

0.35 mm Pb

Lead Equivalence

1.00 mm Pb

0.50 mm Pb

Customization



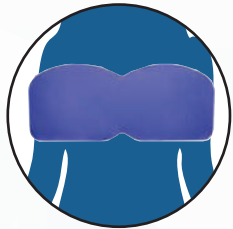
Available with
Ring Attachment

CT Breast Shield

Designed to protect the sensitive breast area and reduce cancer risk due to large radiation doses during CT procedures.

Today, cancer is affecting younger population of women, with the highest risk being to women under the age of 35. CT scans and similar doses of radiation increases cancer risk, making it essential to conduct research on new radiation protection methods.

Kiran applied its expertise in radiation protection to develop the breast shield that is used in plane breast shielding to reduce cancer risk.



-  Offers 67 % protection to the sensitive tissue of the breast
-  Eco-Friendly
-  Helps prevent breast cancer
-  Disposable
-  Available with a foam pad for comfort
-  Various sizes available

CT Pediatric Shield

Designed to protect infants and children from radiation doses emitted during CT scans without compromising image quality.

Infants are ten times more susceptible to carcinogenesis caused by radiation exposure than adults.

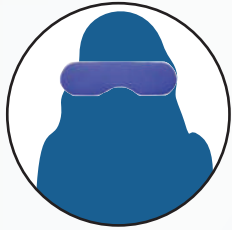
Kiran's Pediatric shield is designed to protect infants and children from radiation doses emitted during CT scans, without any compromise to image quality.





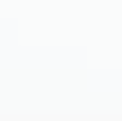


-  Offers 67 % protection to the sensitive tissue of the breast
-  Eco-friendly
-  Helps prevent breast cancer
-  Disposable
-  Available with a foam pad for comfort
-  Available for age groups: Neonatal, 1, 5 & 10 years old

CT Eye Shield

Designed to protect the eye, which becomes especially sensitive to radiation after repeated CT procedures.



-  70% protection to the complete eye
-  Perfect fit to prevent accident exposure to radiation
-  Disposable
-  Design to mould to the eye's shape
-  One Size fits all
-  Eco-friendly

CT Thyroid Shield

Designed to provide special protection to the sensitive thyroid gland



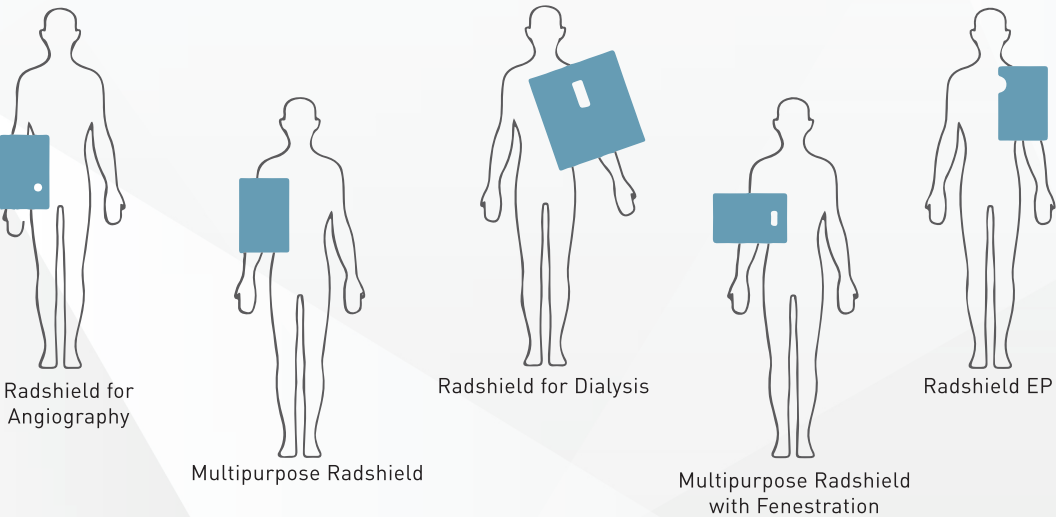
-  Offers 65% protection to the thyroid gland
-  Prevents tissue damage
-  Disposable
-  One Size fits all
-  Eco-friendly

Attenuation tests performed in accordance with EN 61331-1:2014

With the concerns of Interventional Specialists in mind, Kiran has designed RadShield which is an inevitable solution to minimize the Cumulative Career exposure. These shields are placed on the patient's body and positioned to block scattered radiation in all Cath Lab procedures.

The RadShield Solution

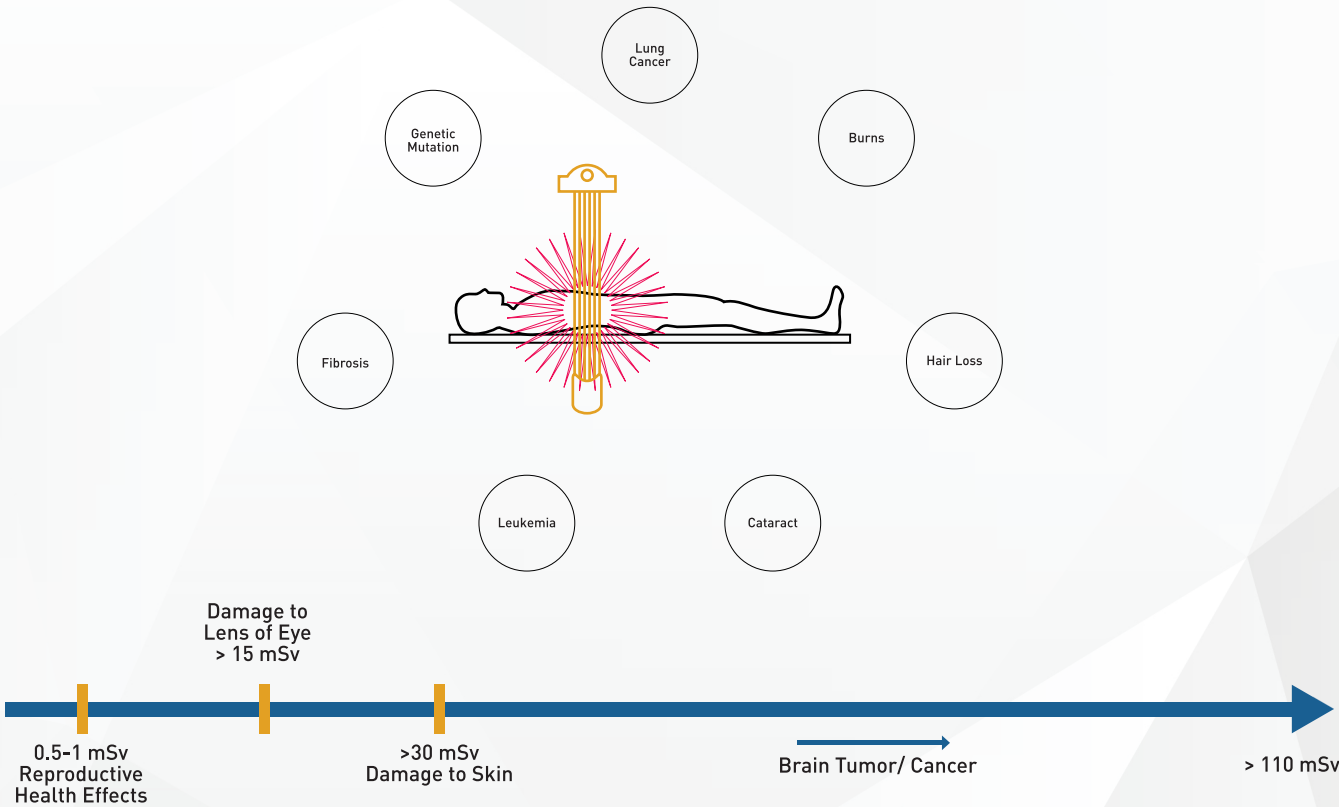
- Placed on patient to protect physician from X-ray scatter radiation and provides sterile surgical barrier to the patient
- Made from proprietary mix of several lead-free elements
- Helps in preventing cancer risks and radiation damage
- Designed to allow physician to conduct surgery without any hindrance
- Used for general & interventional procedures
- 100% sterilized with the latest Gamma irradiation sterilization/Ethylene oxide (EtO) gas sterilization
- Single use and easy to dispose



Lead Equivalence (mm Pb)	Type	Minimum Attenuation @90kVp
0.125	Low (L)	75.3%
0.250	Medium (M)	90.8%
0.350	High (H)	95.3%

Attenuation tests performed in accordance with IEC 61331-1:2014 & ASTM F2547

Health Hazards faced by Interventionists



Deterministic Effects

- Exposure to large dose of radiation for a short period of time
- Eg. skin erythema, hair loss, radiation burns and acute radiation syndrome
- Eg. nausea, vomiting and dizziness

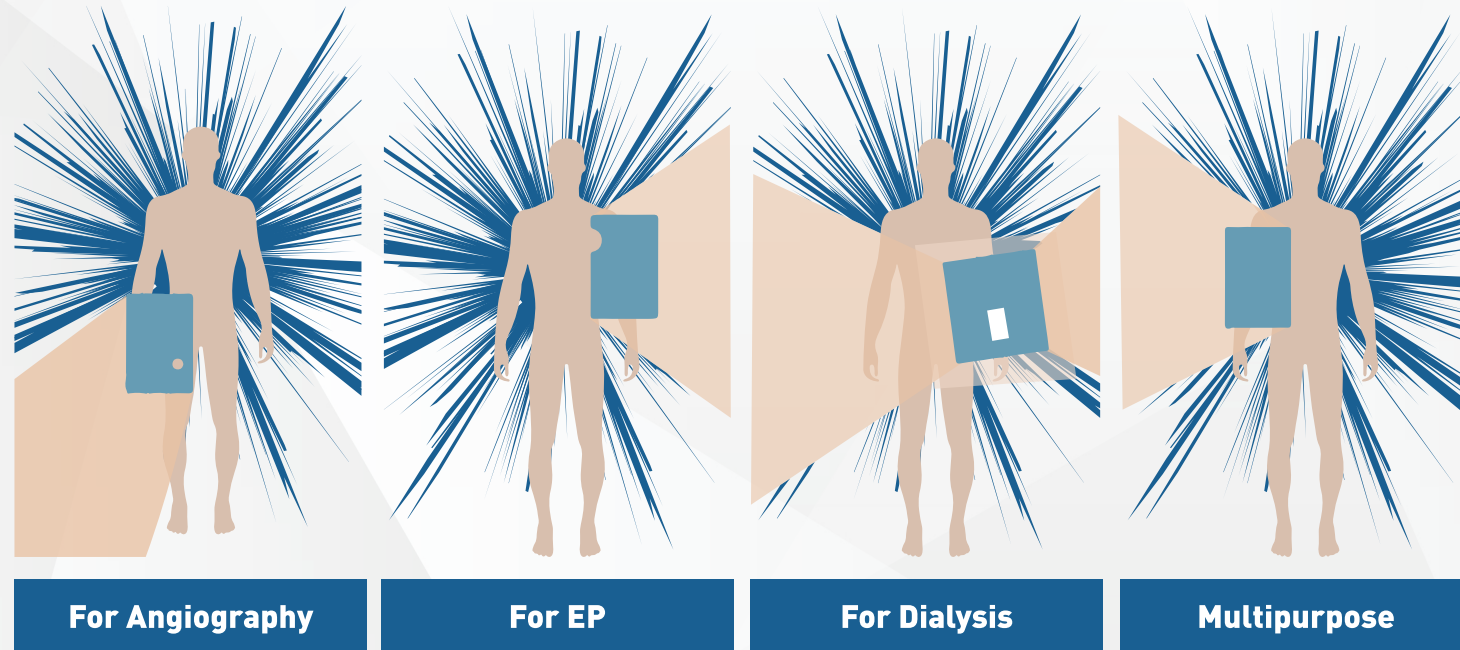
Stochastic Effects

- Prolonged exposure to low dose scattered radiation with the disease manifesting after years or even decades
- Eg. cancer, bone-marrow damage, genetic mutation

Every time an Interventional Cardiologists walks out of the Operation Room, the morale of the patients and relatives go up. So does the cumulative radiation exposure the specialist has acquired right from beginning of their career.

In a Career spanning 30 years, Interventional cardiologists, radiologists and technicians are exposed to more ionizing radiations than physicians in any other specialized medical field.

- A Cumulative Career Radiation Exposure for Surgeons is 108 mSv and 45 mSv for Technicians/Nurse
- According to BEIR VII (Biological Effects of Ionising Radiation Committee VII), the total cancer incidence receiving 2 mSv/y from 18 to 65 years of age should be 1 in 136



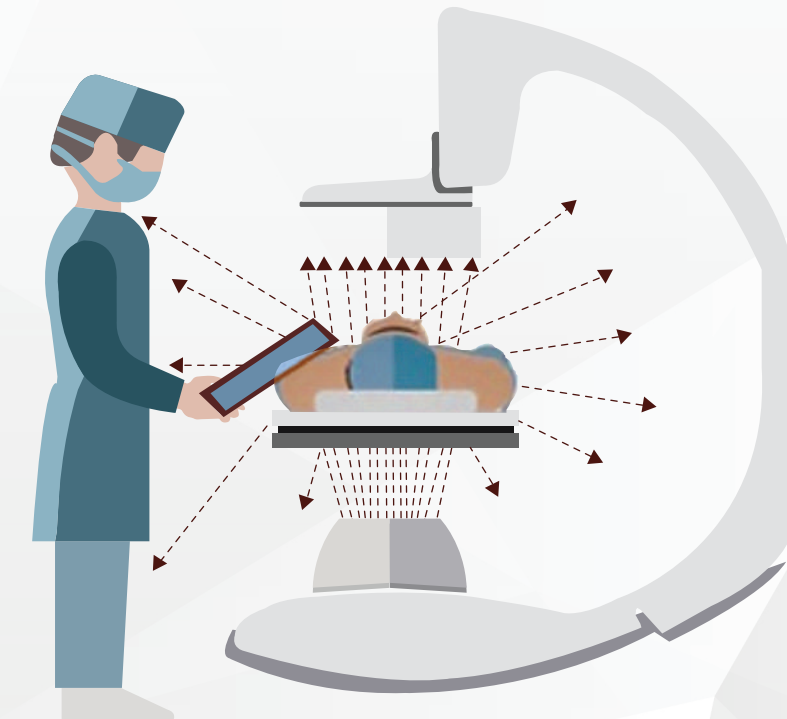
Scattered Radiation

In the case of Scattered Radiation, the x-rays are specifically focused on a single target, the x-rays will still scatter and those scattered rays can continue to scatter around the room based on various design features.

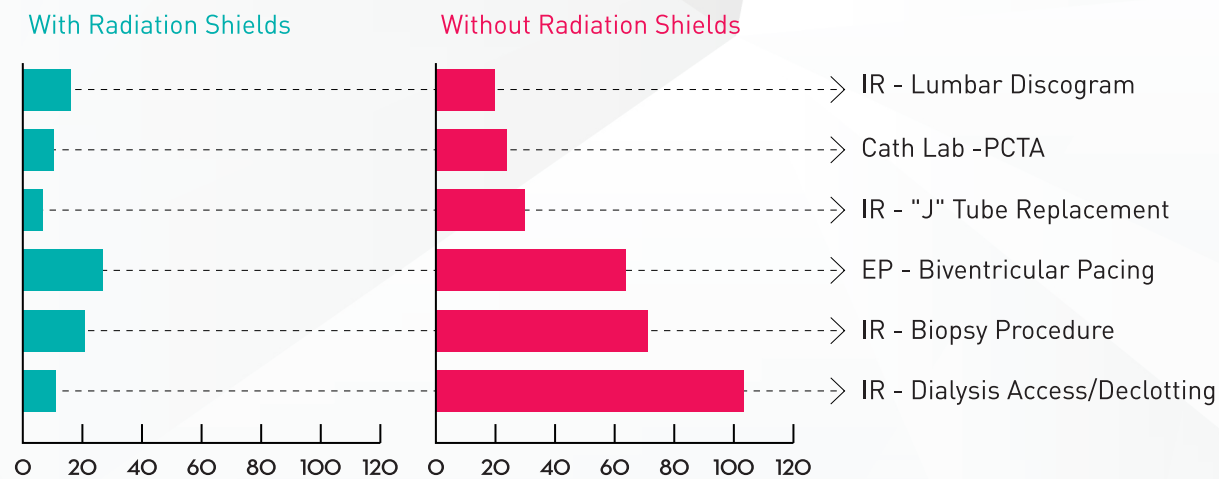
Scattered radiation: The bulk of this type of radiation derives from the x-rays bouncing off the patient's body.

Back scatter: This type of scatter radiation is created from behind the film and directed back towards the x-ray tube.

Side scatter: Side scatter is caused by objects in the immediate areas, such as walls, floors and tables. To mitigate side scatter, you may have noticed that x-ray rooms are typically void of other objects and the table is located in the center of the space.



Typical Scatter Radiation Exposure Levels



Scattered Radiation

RadShield (high)
0.350 mm Pb

Sample Designation	Minimum Attenuation			
	80 kVp	90 kVp	100 kVp	120 kVp
Radshield High Batch No: 35025082016	97.2%	95.4%	92.7%	89.4%

Sample Designation	Lead Equivalence (mm Pb)*			
	80 kVp	90 kVp	100 kVp	120 kVp
Radshield High Batch No: 35025082016	0.36%	0.41%	0.38%	0.36%

RadShield (medium)
0.250 mm Pb

Sample Designation	Minimum Attenuation			
	80 kVp	90 kVp	100 kVp	120 kVp
Radshield High Batch No: 25025082016	93.3%	90.6%	87.0%	81.2%

Sample Designation	Lead Equivalency (mm Pb)*			
	80 kVp	90 kVp	100 kVp	120 kVp
Radshield High Batch No: 25025082016	0.27%	0.27%	0.26%	0.24%

RadShield (Low)
0.125 mm Pb

Sample Designation	Minimum Attenuation			
	80 kVp	90 kVp	100 kVp	120 kVp
Radshield High Batch No: 15025082016	81.2%	78.1%	71.5%	64.0%

Sample Designation	Lead Equivalence (mm Pb)*			
	80 kVp	90 kVp	100 kVp	120 kVp
Radshield High Batch No: 15025082016	0.13%	0.14%	0.13%	0.12%

*Uncertainty of Measurement: ±4%

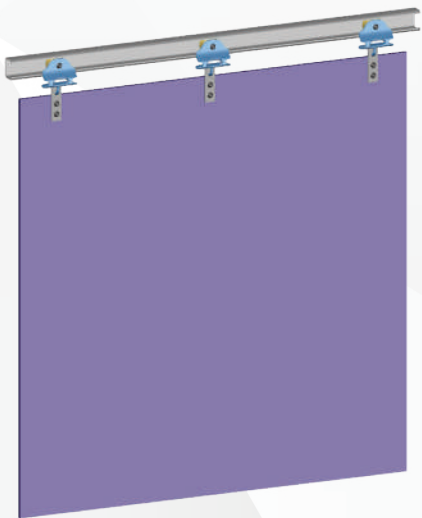
Curtains

Adjustable Mobile Shield

Put the protection where you need it, at any height

Ideal for patients undergoing standing diagnostic procedures, the Adjustable Mobile Shield can be set between 36" and 60" high

It is easy to move in any direction



Lead Curtain

Lead Curtain blocks the scattered radiations. Lead Curtain is useful in fluoroscopy suites, emergency rooms, hospitals, industrial radiography locations, and where low-level or secondary radiation is present

Curtains

Table Shield

Table Shield offers maximum protection from under table scattered radiation. The design allows the shield to be instantly used on either side of the X-ray table with the pivotal arm always facing the head end

The upper shield is detachable and can be removed in the event of a patient emergency. The Table Shield can be easily adjusted for both left or right-hand side applications



Lead Blanket

Lead Blankets are X-ray protective blankets used for shielding patients and equipments



Color

Available in royal blue color & Customizable

Dimensions

Customizable

Lead Equivalence

0.50 mm Pb
1.00 mm Pb

Color

Available in royal blue color & Customizable

Dimensions

Customizable

Lead Equivalence

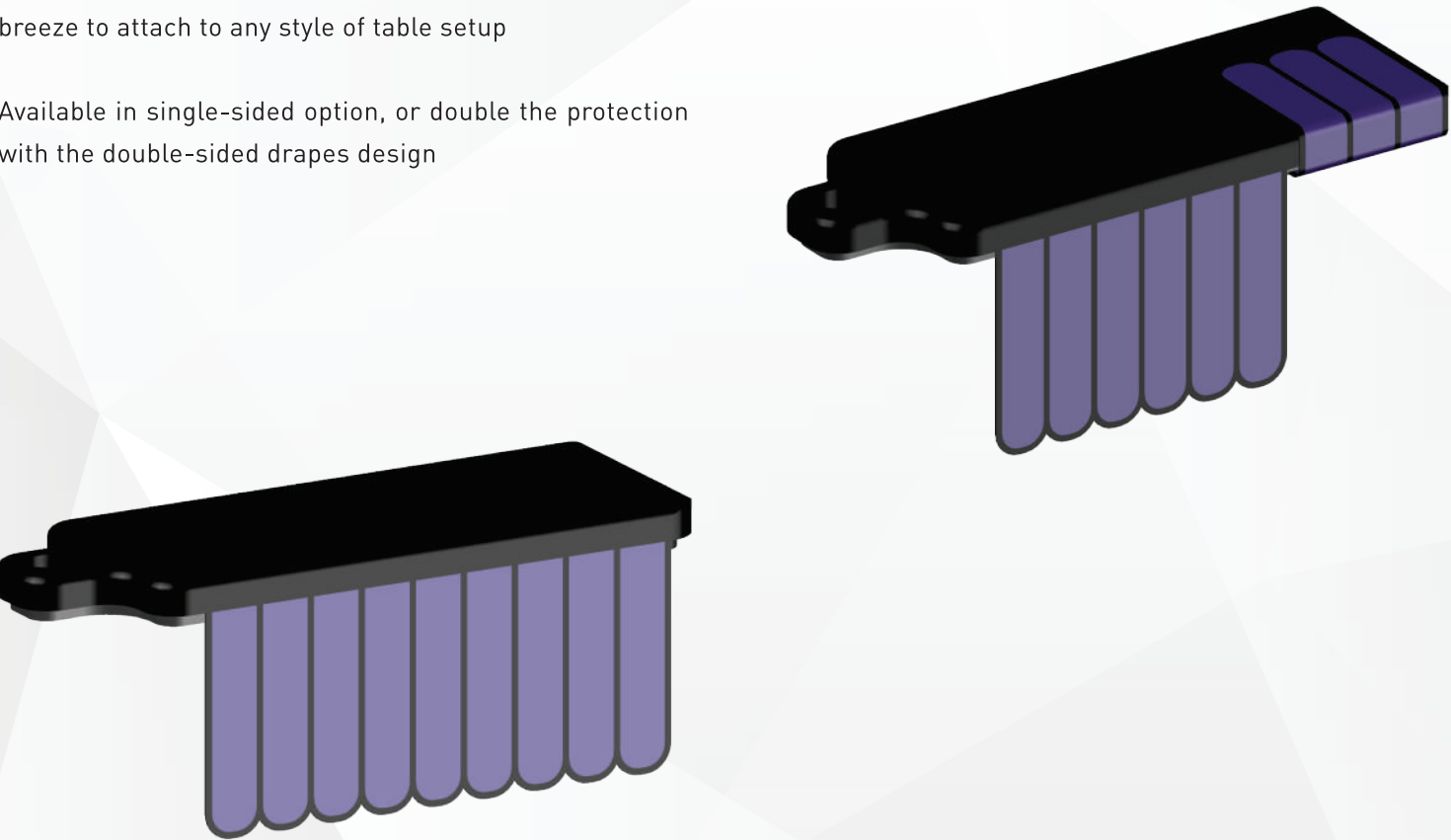
0.50 mm Pb
1.00 mm Pb

Table Drapes

Table Drapes is a lower shield which protect the patients body from scattered radiation

Hook and loop fastener attachments make these drapes a breeze to attach to any style of table setup

Available in single-sided option, or double the protection with the double-sided drapes design



Color

Available in a royal blue color

Dimensions

Customizable

Lead Equivalence

0.50 mm Pb
1.00 mm Pb

Apron Hanger

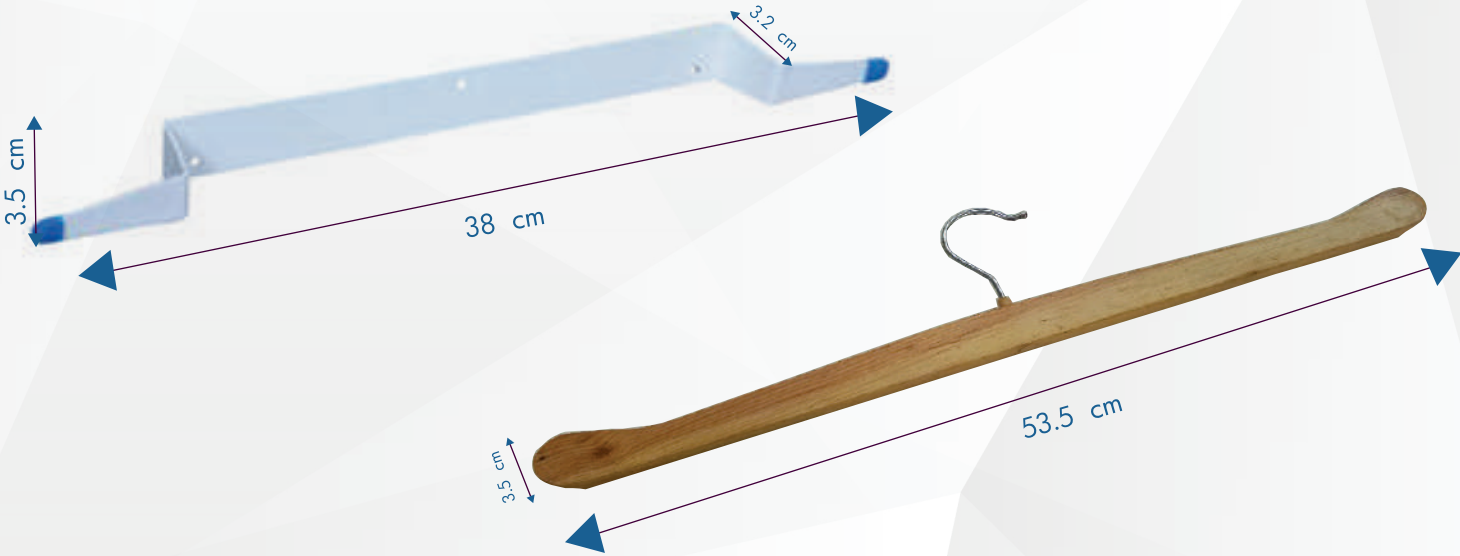
Kiran’s hanger are steel coated that can be used for storing adult & child radiation protection aprons

Composed of Low Carbon Steel, Poly Urethane Plastic Blue Caps and Toggle Bolts

Dimensions

3.2 cm (W) x 38 cm (L) x 3.5 cm (H)

Part Name	Material	Quantity
Hanger	Low Carbon Steel	1
Blue Cap	Poly Urethane Plastic	4
Toggle Bolt	As mentioned Below	3



Mobile Storage Systems with Hangers

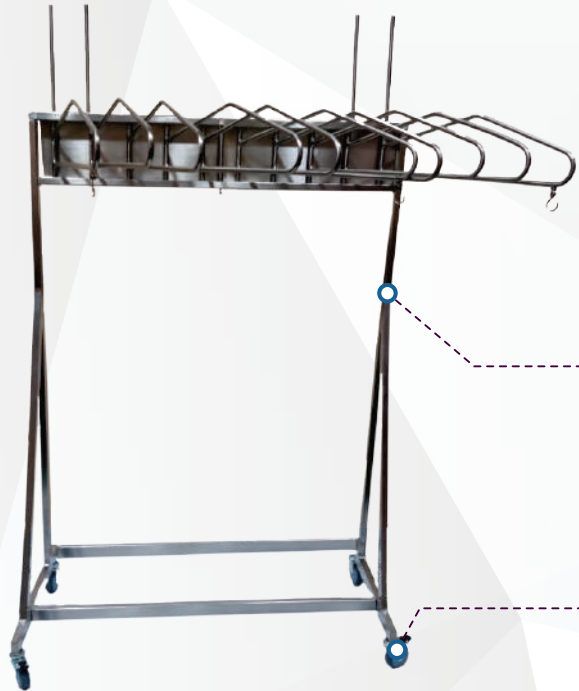
A compact space saving and easy to install unit for storing apparel, gloves and shields.



Glove Holder

Heavy duty Stainless Steel Hangers with Swivel

Detachable hooks for more storage options



Heavy gauge steel material for longer shelf life

Efficient Wheels with Locks

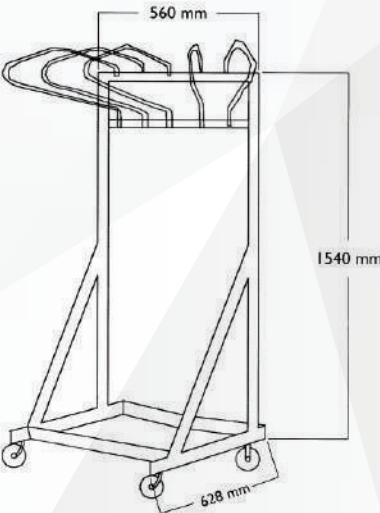


Mobile Storage System

- 10 Hangers
- 2 Gloves Holders

Mobile Storage System

- 5 Hangers
- 2 Gloves Holders



Available Models

10 Hangers & 2 Gloves Holders

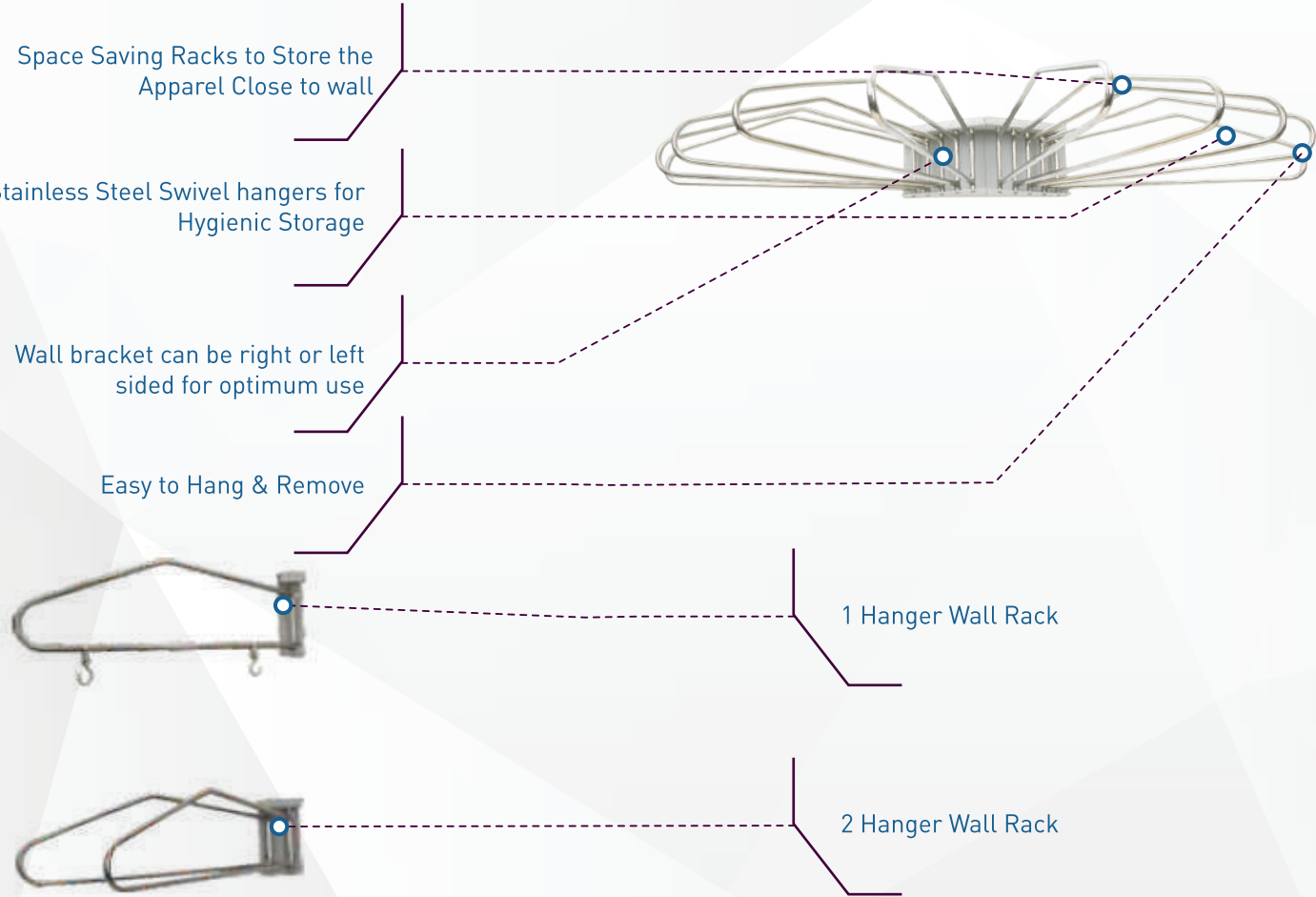
Stores upto 10 Pairs of apparel

5 Hangers & 1 Gloves Holder

Stores upto 5 Pairs of apparel

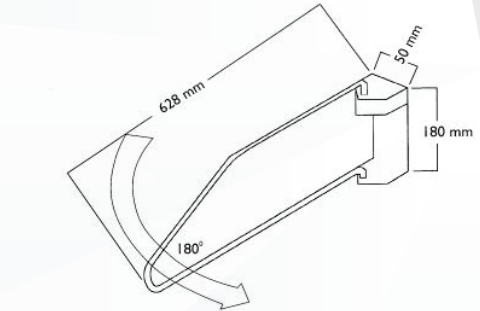
Wall Mounted Racks

A compact space saving and easy to install Wall Racks for storing apparel, gloves & shields.



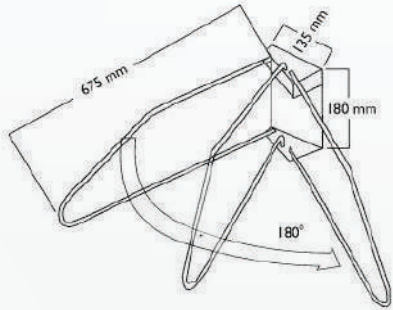
Available Models

- Wall racks with 1,2,3 & 5 Hanger options
- Hooks are available for fixing on wall racks



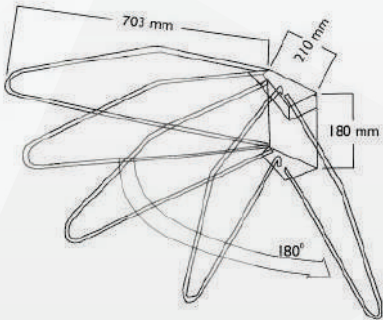
One hanger wall rack (left to right)

- Stores the apparel closest to the wall
- Available with one swivel hanger



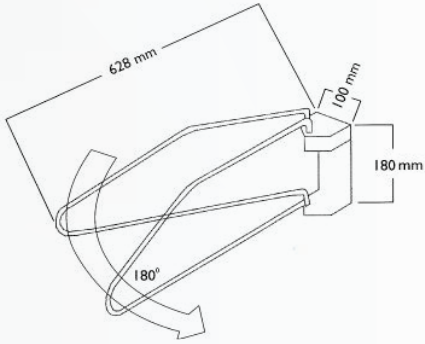
Two hanger wall rack (left to right)

- Wall bracket flush on the left or right for storing two apparel
- Optimum use of available space



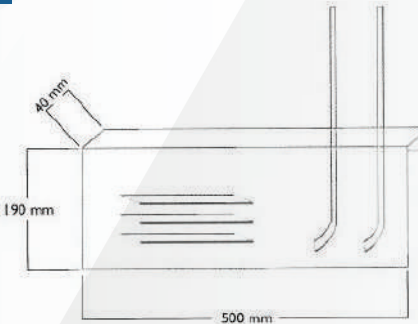
Three hanger wall rack (left to right)

- Wall bracket flush on the left or right for storing three apparel
- Optimum use of available space



Five hanger wall rack (left to right)

- Stores the apparel closest to the wall
- Available with one swivel hanger

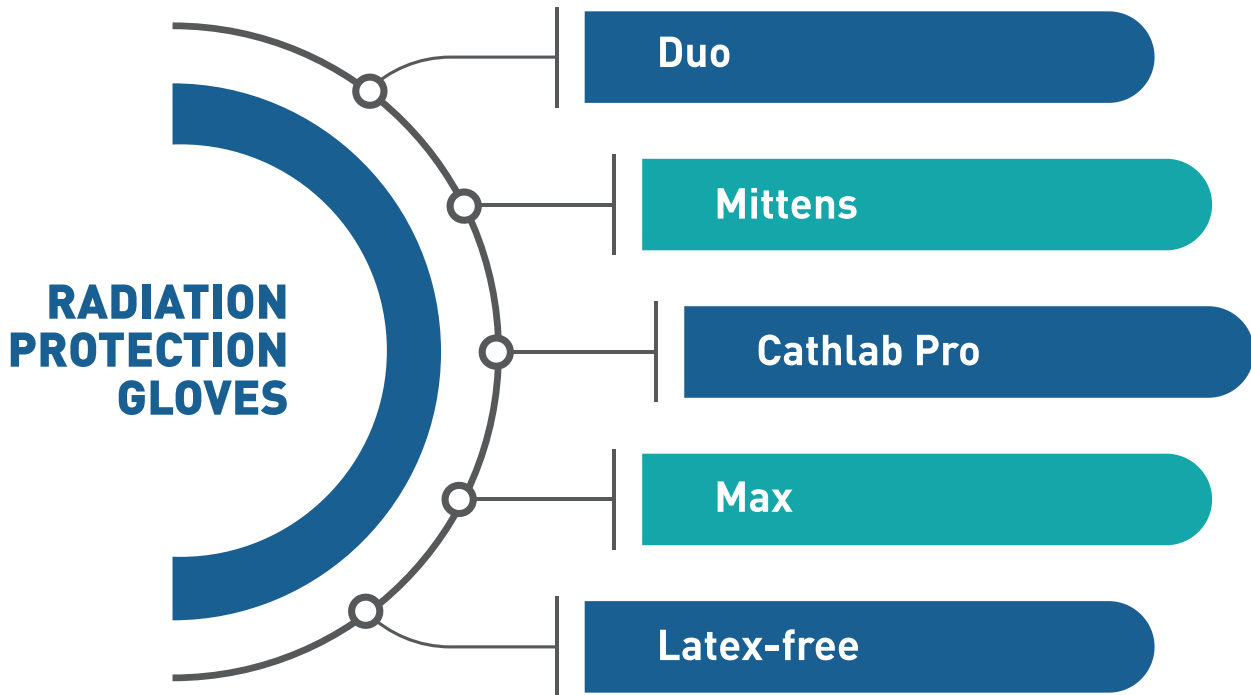


Wall mounted Glove holder

- Wall mounted glove holder for storing gloves
- Optimum use of available space



Protection | Grip | Control



Radiation Protection Gloves

Reusable Lead Gloves

Made of soft, pliable material, Kiran’s gloves are non-sterile, protective, comfortable, and reusable.



Duo

Our dual-layered gloves have a seamless external covering and an internal lining, all of which can be dismantled and cleaned.

Measured with narrow as well as inverse broad beam geometry condition at 150 kVp, in accordance with EN 61331-1:2014 & EN 61331-3:2014

Ideal For

Proper positioning in Veterinary & Pediatric X-Ray

Mittens

Mittens, one of our bestsellers, allows wearers the mobility of using their bare hands directly in beam field, thanks to protective mitten design and snug internal strap.

Measured with narrow as well as inverse broad beam geometry condition at 150 kVp, in accordance with EN 61331-1:2014 & EN 61331-3:2014

Ideal For

Hand protection during interventional cardiology procedures

Lead Equivalent thickness in mm Pb

0.50



Lead Equivalent thickness in mm Pb

0.25 / 0.35 / 0.50

Sterile Lead-free Radiation Protection Gloves

Kiran offers a wide range of sterile Lead-free and disposable radiation protection gloves that provide the highest possible protection in surgical procedures and are easy to dispose in an eco-friendly manner.

Produced at our independent sterilization facility, each glove is subjected to rigorous contamination control and is 100% sterilized using the latest gamma sterilization equipment and complies with international quality standards.



Cathlab Pro

Ideal for use in Interventional Cardiology Procedures



MAX

Ideal for use in Fluroscopy / Orthopaedic / Urology Procedures



Latex-Free

Ideal for use in Interventional Cardiology Procedures

Available Size

L

Length of the glove (in cm)

38

Half Circumference of the glove on cuff/palm (in cm)

18.5 / 14

Half Circumference of the hand of the user (in cm)

9



Proprietary hypoallergenic formulation for complete protection



Textured external surface for superior grip



Multiple lead equivalence & thickness options for various clinical applications



Flexible & Powder free material for comfort & durability



Composed of a Proprietary mixture of lead-free elements, making them safe for the environment and for users



Easily disposable material for one-time use

Characteristics

Technical Parameters	Max NXP G35	Thin NXP G25	Ultrathin NXP G20	Cathlab Pro CNXP G20	Latex-Free SXP G20
Finger tip thickness (mm/mils)	Min. 0.35	Min. 0.25	Min. 0.20	Min. 0.20	Min. 0.25
Palm thickness (mm/mils)	Min. 0.32	Min. 0.24	Min. 0.19	Min. 0.19	Min. 0.24
Cuff thickness (mm/mils)	Min. 0.30	Min. 0.22	Min. 0.18	Min. 0.18	Min. 0.22
Lead equivalence (mm Pb)	Min. 0.04	Min. 0.025	Min. 0.02	Min. 0.02	Min. 0.025
Color	Khaki	Khaki	Khaki	Yellow	Yellow
Material	Natural Latex with hypoallergenic inner coating				Synthetic Latex
Tensile strength (MPa)	Min 14				
Minimum elongation (%)	700				
Protective material	Mixture of lead-free elements				
Donning agent	Powder free / Polymer Coated				
Azo dyes	None				
Residual powder	≤2 mg/glove				
Protein content	Less than 50 micrograms/gram				
Sterilization	Gamma sterilization				
Packing	One sterile pair per pouch				
Storage	Store in cool, dry place away from Ozone [Below 25°C] 40-50% RH				

Specifications

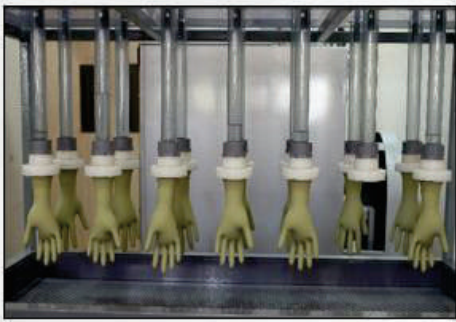
Size	Minimum Length (mm/inches)	Palm Length (mm/inches)
6	280/11.0	78/3.1
6.5	280/11.0	80/3.1
7	280/11.0	85/3.3
7.5	280/11.0	94/3.7
8	280/11.0	100/3.9
8.5	280/11.0	107/4.2
9	280/11.0	114/4.5

% Attenuation as per ASTM-2547-18

Radiation Beam Energy Level	Skin Dose Reduction				
	Max. NXP G35	Thin NXP G25	Ultrathin NXP G20	Cathlab pro CNXP G20	Latex Free SXP G 25
60 kV	59%	51%	46%	52%	51%
80 kV	49%	41%	38%	42%	41%
100 kV	40%	33 %	32 %	34%	33%
120 kV	34%	28%	28%	28%	28%

*Uncertainty of Measurement: ±7%

Kiran's World-Class Glove Manufacturing Line





Light & Comfortable

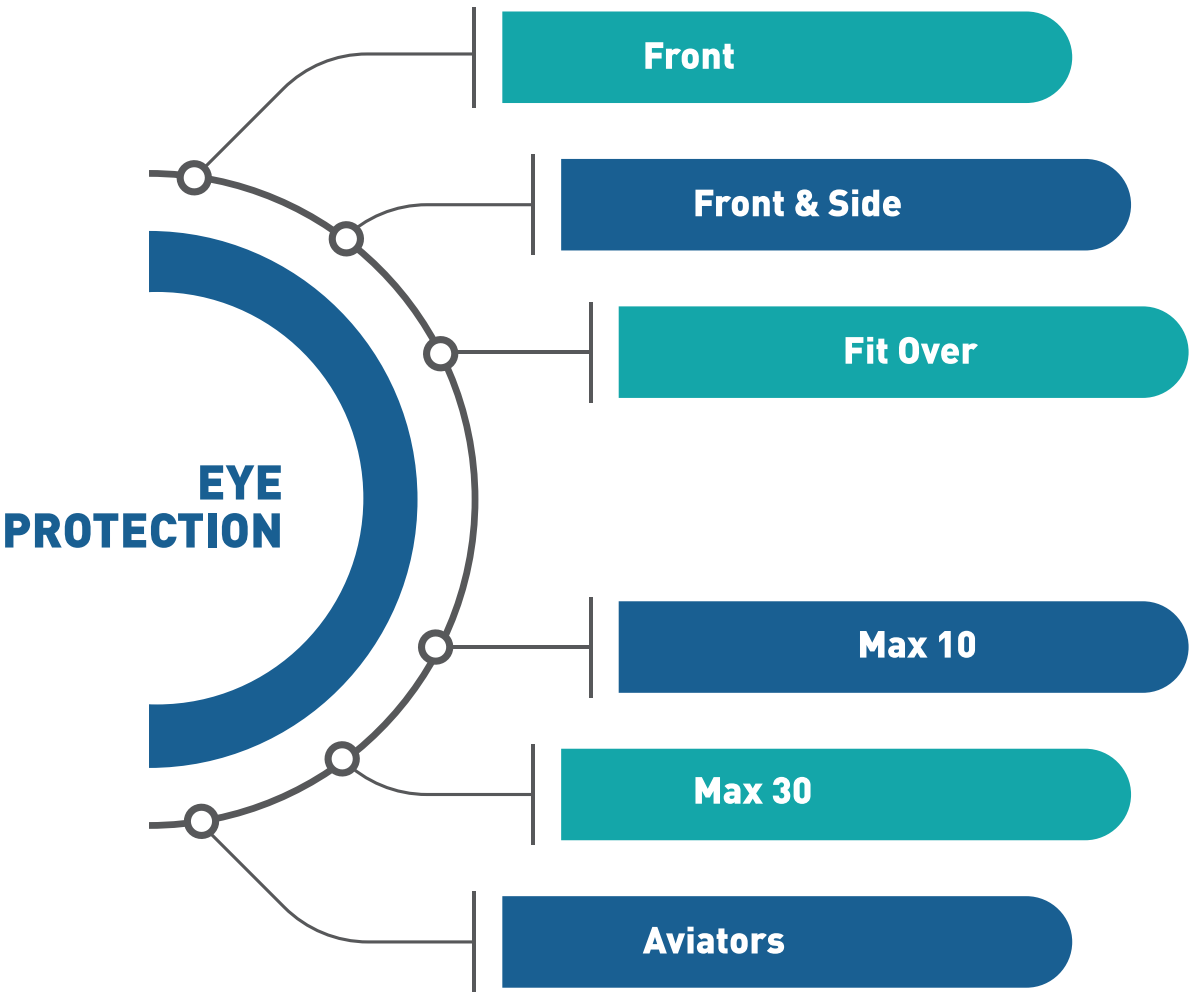
Ease of wearing for
extended duration

Lead Glass

Lead Equivalence
0.75 mm Pb at 120kV

**Handcrafted Elegant
Acetate Frames**

Designed in Italy



Eye Protection

Front

Complete Frontal Protection

- Elegant wide coverage frame
- This frame fits best for medium and large style heads.

Weight

85 g

Key Benefits

Lead Equivalence
0.75 mm Pb

Rubberized Soft Grip

Nose Pads for Secure Fit

Front & Side

Protection from frontal as well as Lateral sides

- Offers large view area and side shield provides additional Lateral Protection.
- This Frame fits best for medium to large style heads.

Specification

Eye Size 51 mm | Nose Bridge Width 20 mm | Temple Length - 140 mm

Weight

90 g

Key Benefits

Lead Equivalence
Frontal: 0.75 mm Pb
Lateral: 0.50 mm Pb

Flexible Temple Bars
& Acetate Protection

Adjustable Nose Pads



Wide Range of Eyewear

New Eyewear Brands

FRENCH CONNECTION



NIKE



Fit Over

Fits perfectly over the wearer's existing eyeglasses

- Offers a comfortable, lightweight, and durable design that fits over prescription eyewear
- This Frame fits over almost any style of glasses and head size with comfort

Specification

Eye Size 62 mm | Nose Bridge Width 15 mm | Temple Length - 145 mm

Weight

85 g



Key Benefits

Lead Equivalence
0.75 mm Pb

Ultimate Fit Over Design
for Weight & Comfort

Max 10

Protection & Comfort with padding for the temple & bridge of the nose

- Offers a stylish wrap around frame
- This Frame models fits best for medium and large style heads

Specification

Eye Size 64 mm | Nose Bridge Width 16 mm | Temple Length - 140 mm

Weight

67 g



Key Benefits

Lead Equivalence
0.75 mm Pb

Rubberized Soft Grip Temple Bars
& Removable Pose Pads for Secure Fit

Nose Pads for Secure Fit

Max 30

Unisex models that fits all faces & shapes

- Offers a stylish wrap around frame style with a removable foam insert.
- This Frame fits best for small to medium style heads.

Specification

Eye Size 55 mm | Nose Bridge Width 20 mm | Temple Length - 140 mm

Weight

69 g



Key Benefits

Lead Equivalence
0.75 mm Pb

Rubberized Soft Grip Temple Bars
& Nose Pads for Secure Fit

Rubberized Foam Insert with Fog
Reducing Ventilation Ports

Aviators

Wrap-around style eyeglasses with protection & stylish design

- A classic radiation protection frame that is solid, sturdy and comfortable
- Its lateral shield protects around the orbit of the eye with 0.35mm lead equivalency

Specification

Eye Size 57 mm | Nose Bridge Width 16 mm | Temple Length - 125 mm

Weight

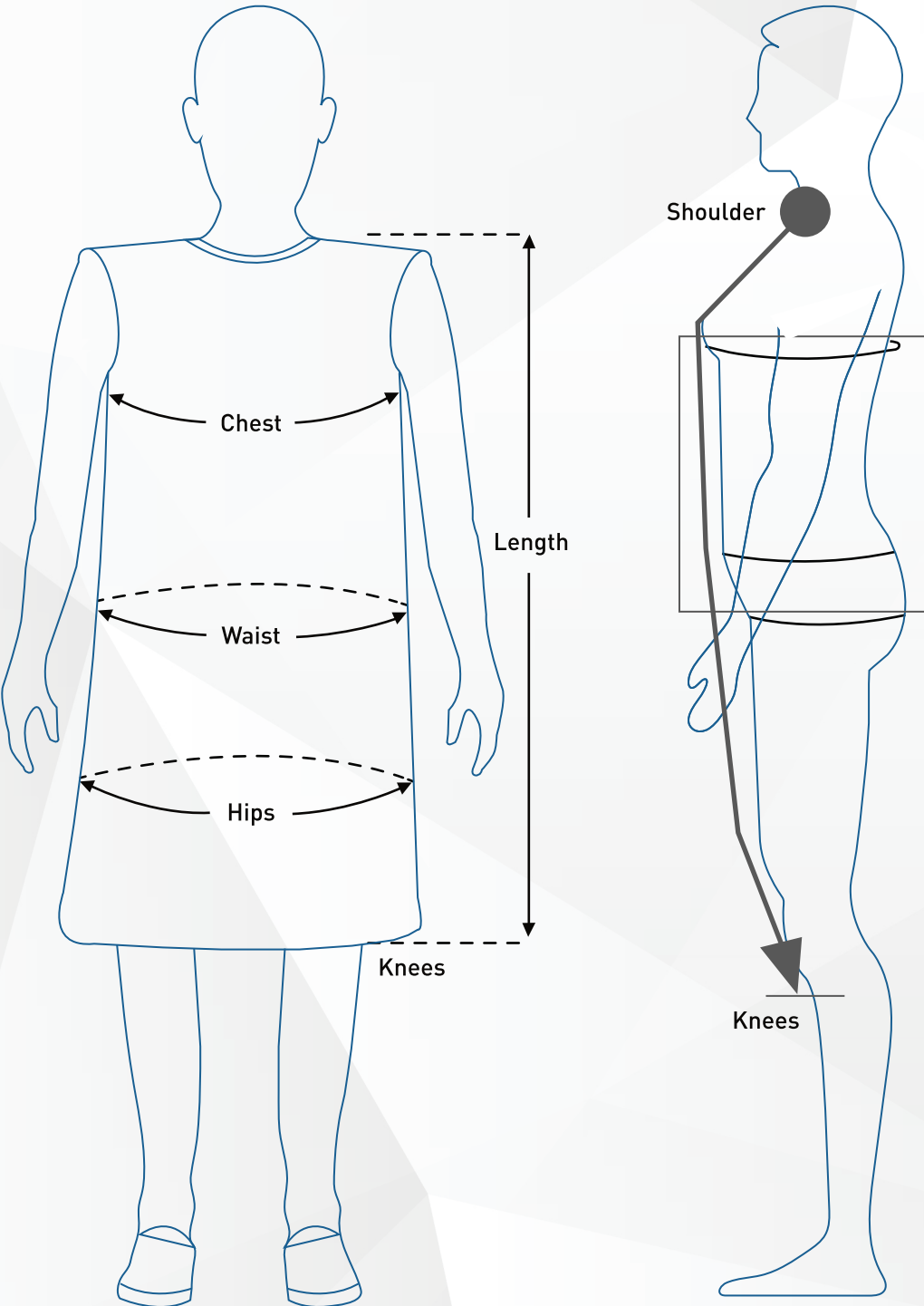
70 g



Key Benefits

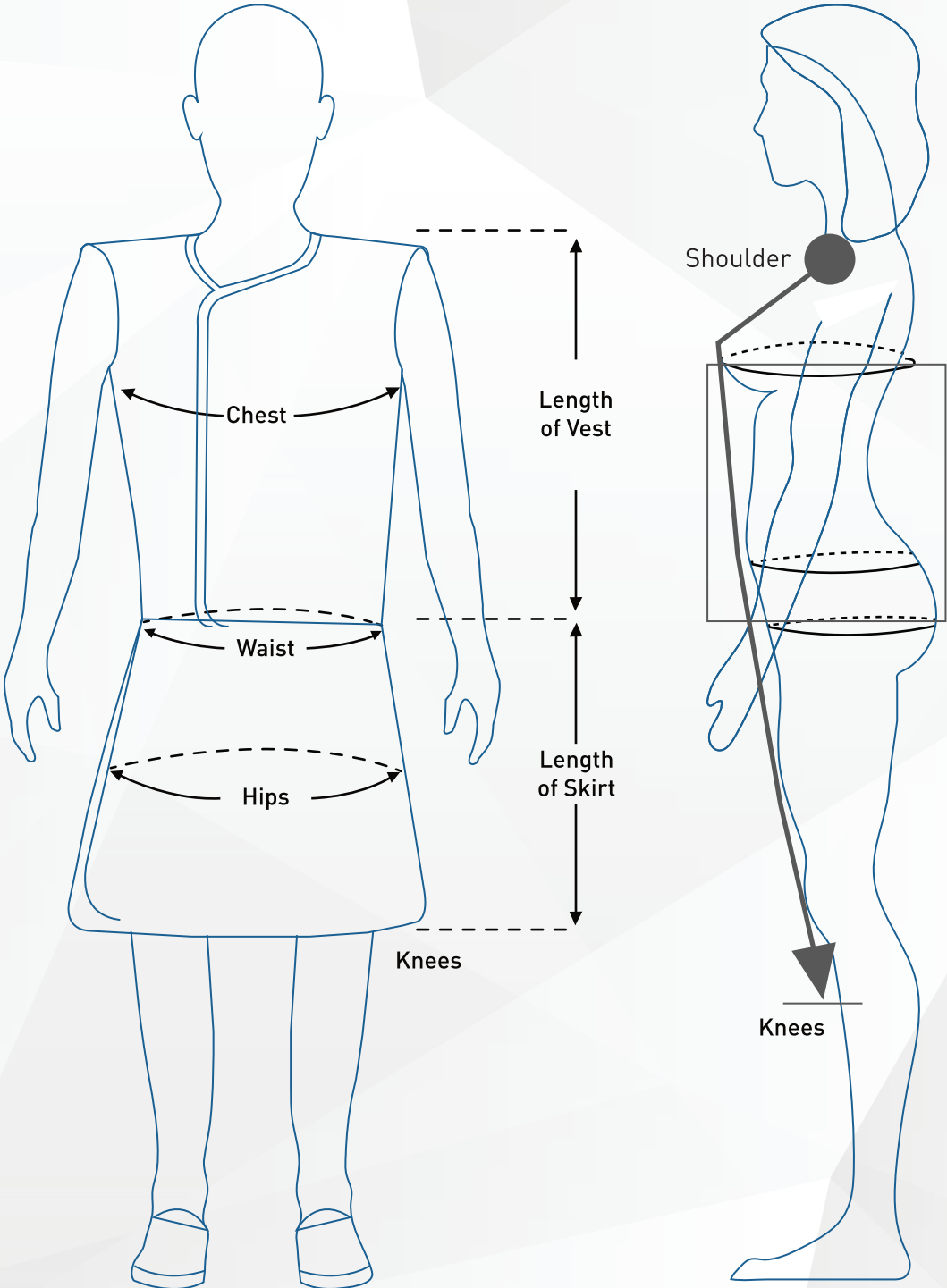
Lead Equivalence
0.75 mm Pb

Rubberized Soft Grip Temple Bars
& Removable Nose Pads for Secure Fit



Note:

- Girth of Operator - Consider the highest circumference out of the Chest / Waist / Hips
- Length should be measured from Shoulder to Knee (upto 10 cm below the Knee)



Note:

- Girth of Operator - Consider the highest circumference out of the Chest / Waist / Hips
- Length should be measured from Waist to Knee (upto 10 cm below the Knee)

Double Sided Apron

We have 8 digits in Kiran Code

Step 1

Digit 1 & 2
Radiation Protection Apparel = X1

Step 2

Digit 3
Double Sided Apron = 2

Step 3

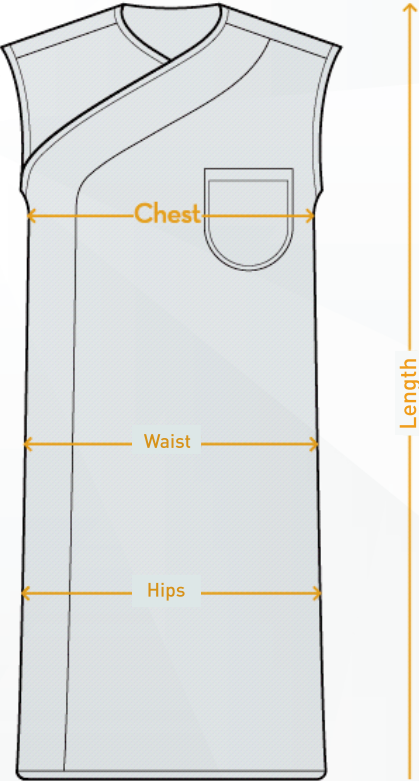
Digit 4
For Double Sided Apron: Optima = 1
Maxima = 2

Step 4

Digit 5
Ultralite = 1
Zerolead = 2
Leadlite = 3
Zerolead Air*

Step 5

Digit 6
0.25 mm Pb Front / 0.25 mm Pb back = 5
0.35 mm Pb Front / 0.25 mm Pb back = 6
0.50 mm Pb Front / 0.25 mm Pb back = 7
1.00 mm Pb Front / 0.25 mm Pb back = 8



Example

Name

Mr. XYZ

Department

XY

Code

X12137C2



Step 6

(Digit 7)

Size	Width of DSA	
	Girth of Operator	Our Size (Digit 7)
XS	80-85	B
S	86-91	1
M	92-97	C
L	98-107	2
XL	108-113	3
XXL	114-120	E
XXXL	121-127	4

Step 7

(Digit 8)

Length of DSA	
Our Length (Digit 8)	
85 cm = B	
90 cm = 1	
100 cm = 2	
105 cm = D	
110 cm = 3	
115 cm = E	
120 cm = 4	

* ZeroLead Air variant is available in select geographies.
Please get in touch with your Kiran representative for more details.

Vest

We have 8 digit in Kiran Code

Step 1

Digit 1 & 2
Radiation Protection Apparel = X1

Step 2

Digit 3
Vest = 4

Step 3

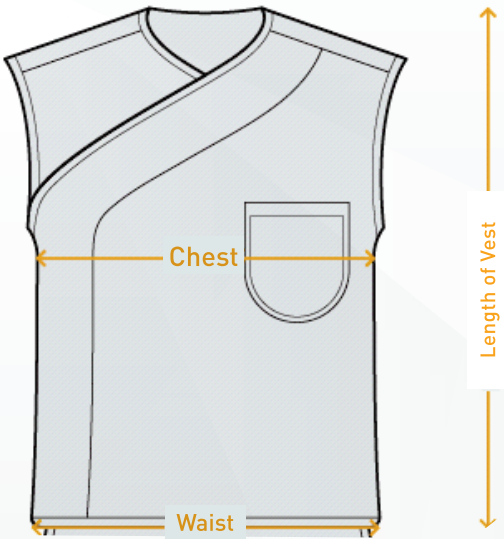
Digit 4
For Vest: Optima = 1
Maxima = 2

Step 4

Digit 5
Ultralite = 1
Zerolead = 2
Leadlite = 3
Zerolead Air*

Step 5

Digit 6
0.25 mm Pb Front / 0.25 mm Pb back = 5
0.35 mm Pb Front / 0.25 mm Pb back = 6
0.50 mm Pb Front / 0.25 mm Pb back = 7
1.00 mm Pb Front / 0.25 mm Pb back = 8



Name

Department

Code



Step 6

(Digit 7)

Size	Width of Vest	
	Girth of Operator	Our Size (Digit 7)
XS	80-85	B
S	86-91	1
M	92-97	C
L	98-107	2
XL	108-113	3
XXL	114-120	E
XXXL	121-127	4

Step 7

(Digit 8)

Length of Vest
OurLength (Digit 8)
42 cm = A
50 cm = 1
57 cm = 2
63 cm = 3
68 cm = 4
72 cm = 5
75 cm = F

* ZeroLead Air variant is available in select geographies.
Please get in touch with your Kiran representative for more details.

Skirt

We have 8 digits in Kiran Code

Step 1

Digit 1 & 2
Radiation Protection Apparel = X1

Step 2

Digit 3
Skirt = 3

Step 3

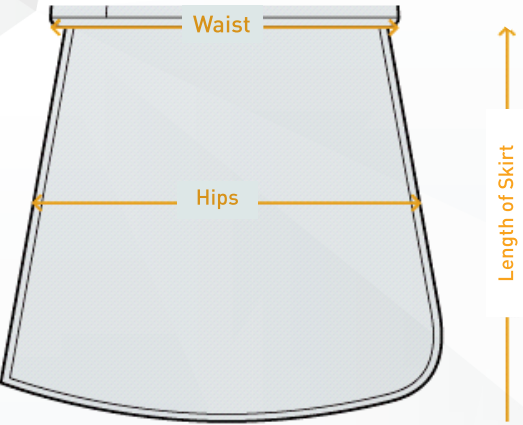
Digit 4
For Skirt: Optima = 2
Maxima = 2

Step 4

Digit 5
Ultralite = 1
Zerolead = 2
Leadlite = 3
Zerolead Air*

Step 5

Digit 6
0.25 mm Pb Front / 0.25 mm Pb back = 5
0.35 mm Pb Front / 0.25 mm Pb back = 6
0.50 mm Pb Front / 0.25 mm Pb back = 7
1.00 mm Pb Front / 0.25 mm Pb back = 8



Name

Department

Code



Step 6

(Digit 7)

Size	Width of Skirt	
	Girth of Operator	Our Size (Digit 7)
XS	80-85	G
S	86-91	S
M	92-97	O
L	98-107	R
XL	108-113	3
XXL	114-120	4
XXXL	121-127	N

Step 7

(Digit 8)

Length of Skirt
Our Size (Digit 8)
48 cm = A
53 cm = 2
57 cm = 3
62 cm = 4
65 cm = D
70 cm = E
75 cm = F

* ZeroLead Air variant is available in select geographies.
Please get in touch with your Kiran representative for more details.

Coat Apron

We have 8 digits in Kiran Code

Step 1

Digit 1 & 2
Radiation Protection Apparel = X1

Step 2

Digit 3
Coat Apron = 2

Step 3

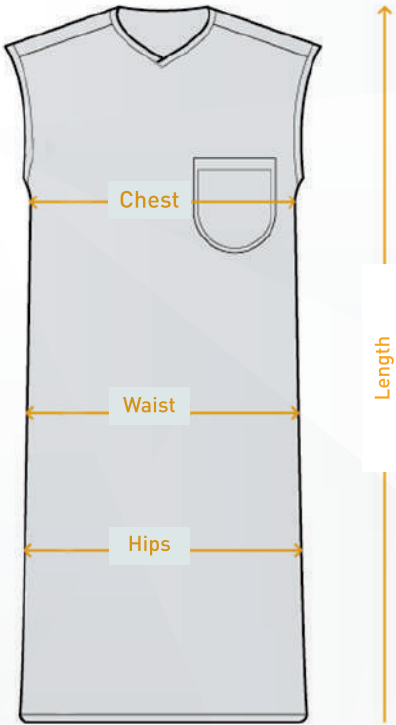
Digit 4
For Coat Apron: Basic = 0
Coat Apron with back protection = 1
Coat Apron with front Snaplock = 2
Coat Apron with back Snaplock = 3

Step 4

Digit 5
Ultralite = 1
Zerolead = 2
Leadlite = 3
Zerolead Air*

Step 5

Digit 6
0.25 mm Pb Front = 1
0.35 mm Pb Front = 2
0.50 mm Pb Front = 3
1.00 mm Pb Front = 4



Name

Department

Code



Step 6

(Digit 7)

Size	Width of Coat Apron	
	Girth of Operator	Our Size (Digit 7)
XS	80-85	B
S	86-91	1
M	92-97	C
L	98-107	2
XL	108-113	3
XXL	114-120	E
XXXL	121-127	4

Step 7

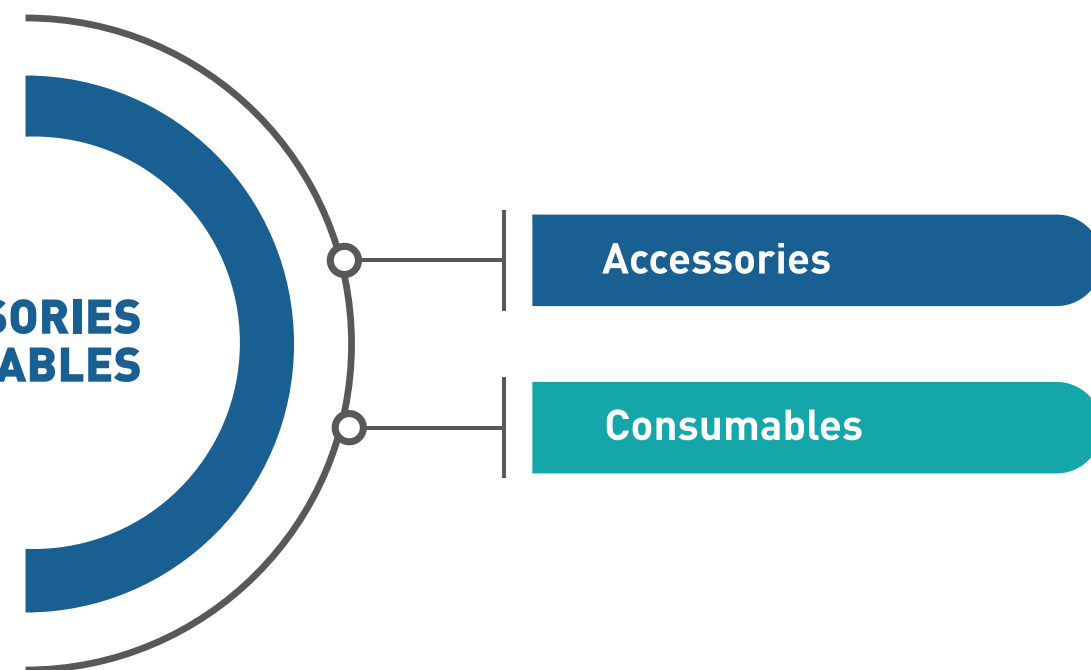
(Digit 8)

Length of Coat Apron	
Our Length (Digit 8)	
85 cm = B	
90 cm = 1	
100 cm = 2	
105 cm = D	
110 cm = 3	
115 cm = E	
120 cm = 4	

* ZeroLead Air variant is available in select geographies.
Please get in touch with your Kiran representative for more details.



IMAGING ACCESSORIES & CONSUMABLES



Anti-Scatter Grids

Image Enhancement Solutions

We at Kiran have spent more than three decades on research and development in the field of X-rays, with a speciality in image enhancement.

With our longterm commitment to research, we have developed outstanding technical expertise in understanding and developing products and processes needed to capture and manage images. We use this special knowledge and experience in the manufacture of our Anti-scatter Grids. These grids address a key ingredient of image quality contrast which helps complete the picture in X-ray images.

An ever-evolving and dynamic company, Kiran provides a complete range of anti-scatter grids, which includes Standard Grids, Digital Grids, Bucky Grids, and Circular Grids. We also manufacture customized grids to meet the specialized needs of our customers.

Quality Parameters

Quality control is serious business at Kiran.

Our robust quality management system ensures a stringent testing protocol for incoming raw materials and at each production stage for every grid manufactured by us. Statistical Process Control and a rigorous final product testing regimen post manufacture result in defect-free grids with optimal performance.

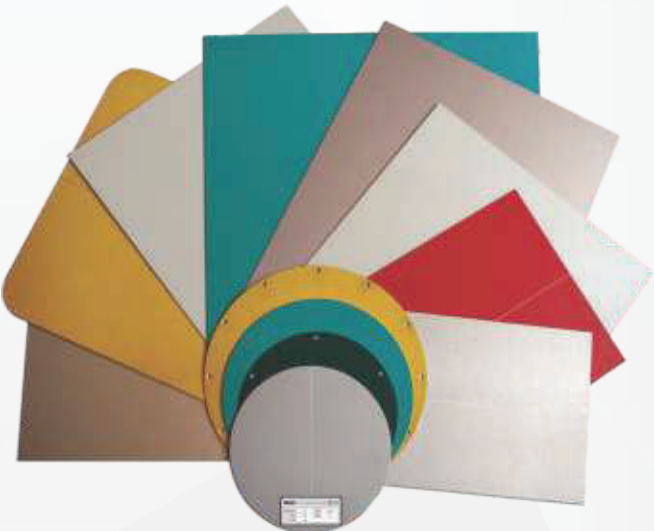
K Factor is a Key Performance Parameter that measures how efficiently a grid absorbs scattered radiation, With a superior K factor, Kiran grids result in three to four times' better contrast.

B Factor or the Bucky Factor is the quantity of additional X-ray intensity needed with the use of a grid. The lower the B Factor, the higher the quality. Kiran grids employ high quality septa and interspacer coupled with precision assembly, resulting in a low B factor.

Primary Transmission is the ratio of the K Factor to the B Factor [K:B]. Kiran grids are designed to allow a transmission of highest possible primary rays.

SNR is the Signal to Noise Ratio. scattered rays generated are several times that of the primary radiation. Kiran grids employ a delicate balance of lead thickness and interspacer to block maximum scatter leading to a higher SNR.

Our grids meet and exceed the specifications laid down by IEC 60627. Kiran grids are CE certified.



Digital Applications

The key to a superior contrast in case of digital applications is to reduce and eliminate the scatter as well as electronic noise.

Such noise generated in all digital systems can be compared with the signal as a ratio "Signal to Noise Ratio" known as SNR. The lower the noise, the higher the image quality.

Kiran grids are designed to improve the SNR in digital systems. Since post processing of a digital image cannot eliminate noise, the scatter has to be eliminated before it enters the digital detector, using a grid.

Quality Parameters

Types	Standard Grids
	Digital Grids
	Bucky Grids
	Circular Grids
Dimensions	Various dimensions covering every size, shape, and profile
	We also provide grids with custom dimensions
Line Density	60 lpi (24 l/cm)
	85 lpi (34 l/cm)
	103 lpi (40 l/cm)
	150 lpi (60 l/cm)
	178 lpi (70 l/cm)
Focal Distance	200 lpi (80 l/cm)
	20 inches (50 cm) to 120 inches (300 cm)
	Parallel grids are also available.
Grid Ratio	6:1 to 15:1
Applications	Conventional systems
	Image intensifiers
	Digital systems

Radiographic Cassettes & Screens

Cassettes with perfect film-screen contact with nitrogen-imploded open cell P.U. foam system and a perfectly curved back door profile and textured surface.

Kiran screens are manufactured with an age-defying protective layer that gives them outstanding durability. Our cassettes made with aviation-grade aluminium are made strategically strong to avoid damage from repeated handling at a busy X-ray facility.

Light weight but with strong corners, locks, and hinges made from the virtually indestructible German Desmopan® polymer and engineering plastics.

Superb image clarity with outstanding product design and precision manufacturing techniques.

Minimum patient dose with optimally balanced formulations.

Screens compatible with all conventional films available in the market.

Cassettes

Kiran cassettes are also available as replacement products in two versions: with and without a Patient ID window.



Grid Cassettes

Kiran Grid Cassettes are available in all popular film sizes and manufactured applying the same superior technology as our standard X-ray cassettes.

Our grid cassettes meet the exact needs of most of the leading systems available in the market.



Screens

Rare Earth: Green Screens

Kiran Rare Earth Green Screens use terbium-activated gadolinium oxy-sulfide phosphor for increased efficiency. They are designed for outstanding contrast, detail perception, and reduction in x-ray dosage with a low mAs.

Rare Earth: Green Screens

Green 400	Speed Class 400	The industry standrad high-intensification and excellent detail perceptibility
Green 800	Speed Class 800	Maximum speed for lowest dosage

Also available: Green Screens in Speed Class 100 and 200.

Rare Earth: Blue Screens

Kiran Rare Earth Blue Screens use state-of-the-art rare earth phosphors that lead to extra sharpness, minimum dosage, and reduction in quantum noise. This leads to a phenomenal improvement in the x-ray tube's life span

Rare Earth: Blue Screens

Blue 400	Speed Class 400	The industry standrad high-intensification and excellent detail perceptibility
Blue 800	Speed Class 800	Maximum speed for lowest dosage
		Using it with half-speed x-ray film will reduce the sytem speed to 400

Also available: Blue Screens in Speed Class 100, 200 & 300.

Calcium Tungstate Screens

Kiran Calcium Tungstate Screens use high-quality phosphor possessing exceptional luminescence, resulting in an optimum combination of speed and resolution with minimum mottle.

Range of Calcium Tungstate Screens

Hi Plus	Speed Class 200	For high-resolutiuon and ultra-high speed. Ideal for a wide range of applications
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Also available: Calcium Tungstate Screens in Speed class 100 (medium) and 150 (hi-speed).

Cassettes & Screens

Mammographic Cassettes & Screens

Kiran sources some of the world's best mammo cassettes and screens from Germany.

These cassettes are characterized by tough and lightweight durable engineering plastic, perfect film screen contact due to pneumatic foam, and excellent diagnostic results.

The R Series, including the R 200 and R 300 Mammo Screens, contribute to the high definition obtained with the Mammography System.



Special Purpose Products



DENTAL CASSETTES & SCREENS

Kiran Dental Cassettes are available in sizes 8x10, 13x18, 15x30 & 15x40 with and without patient ID window and manufactured applying the same superior technology as our standard X-ray cassettes.

Our dental cassettes meet the exact needs of extraordinary tolerances built in the mechanisms of most of the leading dental systems available in the market

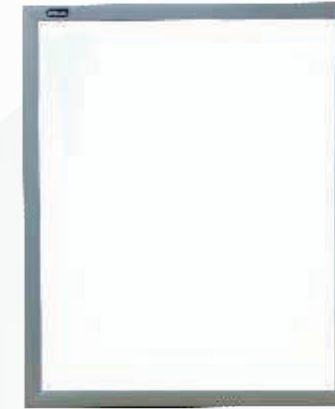


GRADUAL SCREENS & FLFS CASSETTES

We have specially designed cassettes for full leg, full spine, lumbar spine (lateral), and thoracic spine (lateral). Specially designed for each of these applications, our screens take into account the variations of the human anatomy and positioning within an application. The speed of our gradual screens changes such that a high contrast film can be used.

X-Ray View Box

Slim • Effective • Durable



Features

- Slim Construction (~25 mm Thickness)
- High Brightness: >10,000 lux
- Excellent uniformity of Luminance
- LED Light Source with Life of 1,00,000 hours
- No UV Emissions
- All 4 Variants are available with Dimmer option (Intensity Controller) and Film Sensor
- Flicker-free Light reduces fatigue to eye
- Available with Wall Mounted/Table Top options

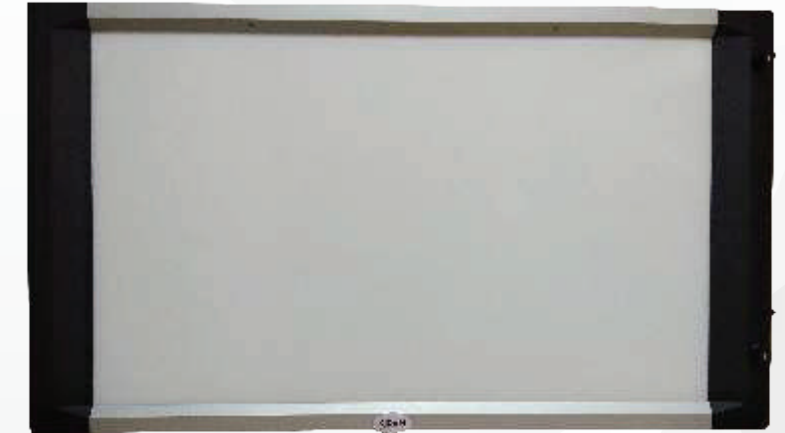
Viewing Area:

1F: 14x17 inches

2F: 17x28 inches

3F: 17x42 inches

4F: 17x56 inches



Contrast Media K-Scan

Kiran offers K-Scan, an Iopamidol injection that is trusted by all radiology specialist.

Clinical Particulars

Neuroradiology
Angiography
Digital Substraction Angiography
Urology
Computerized Axial Tomography
Arthrography
Fistulography
Posology
Neuroradiography

Features

Water Soluble
Non Ionic Contrast Medium
With Diagnostic Efficacy & Safety

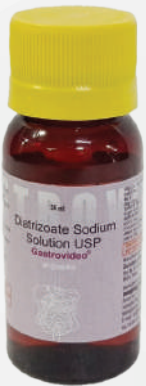


Concentration		Ph	Viscosity (mPa.s)		Density		Osmolality (Mosm/g) 37°C	Osmolality Pressure (atm.) 37°C
Iodine (mg/ml)	Iopamidol (g/100ml)		20°C	37°C	20°C	37°C		
300	61.2	7+0.5	88	4.7	1.335	1.328	0.62	15.7
370	75.5	7+0.5	20.9	9.4	1.415	1.405	0.8	20.3

Contrast Media Gastrovideo

Gastrovideo contains Sodium Diatrizoate (249.64mg/ml of iodine). It is available in packs of 30ml & 100ml.

- Used for visualizing the GI tract when Barium-Sulphate is contraindicated
- Indicated in cases such as suspected threatening perforation, fistulas, suspected partial or complete stenosis and acute haemorrhage



Sonogel

Sonogel is an Ultrasound gel manufactured at Kiran's state-of-the-art factory, where our chemical technologists develop advanced formulations that meet the following critical parameters:

- Transmission of a broad range of frequencies
- Non-irritating formulation that does not harm sonologists or patients
- No damage to transducers
- Slow drying formulation to avoid reapplication and maintain continuity during diagnosis
- Non-staining, non-toxic
- No formaldehyde

Packaging

250ml collapsible tubes (25 tubes per pack)
Innovatively designed 5 liter cans with dispensers for ease of use (4 cans per pack)



Radiation Protection Apron Cleaner

Stain Remover Spray

0%

BLEACH

TOXIC CHEMICALS

SYNTHETIC WHITENERS

FRAGRANCE & DYE

