

SIMAD

X-RAY MEDICAL TECHNOLOGY

RADIATION PROTECTION CATALOG

simad-xray.com

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tel 051 6860811 / fax 051 6861246 / info@simad.net / www.simad.net / **SIMAD Radioprotection**

SIMAD
X-RAY MEDICAL TECHNOLOGY

SINCE 1989

Listen to our Customer needs to develop and create equipments able to improve, change and make the X-ray application easier for the Surgery.



Your need is our Specialty.

Designing and creating more and more helpful devices, to be at your side **inside interventional radiology**.

We design and create mobile X-Ray Systems for X-Ray Surgical applications. Simad products provide avant-garde under technological point of view and distinguish themselves for innovation, upgradeability and safety.

The SIMAD presence is in continuos extension throughout the world, where our customers are growing. Our network of representatives in more than 23 countries, ensure that we remain close to our Customers. Through specific training courses for maintenance and repair we train continuously the technicians of our partner companies who distribute our brand. Thanks to this network of experienced staff we guarantee rapid technical interventions anywhere in the world.

SIMAD
X-RAY MEDICAL TECHNOLOGY



First of all, the Care for the **Safety** of the Patients and the Operators.

Earlier than our competitors, we have provided concrete evidences of the possibilities and advantages of working by using seven times less dose and providing the major image quality and diagnostic results. This dose cutback is an immeasurably valuable achievement and provide added value in terms of safety to the patient and operators.

RADIATION PROTECTION: Mandatory & Required Ruling Norms



All of the radiological procedures in place require the use of x-ray protection aprons as to protect both operators & patients when intervening. In particular when intervening in those Interventional Radiology Departments which are significantly rising up all of the physicians in charge are getting exposed to those ionizing radiations more than ever and that being said they require an adequate protection through the use of x-ray protection aprons which reduce the hazardous interventions effects affecting the human body.

Through the use of the **SIMAD iRadSolutions** products we are now able to answer any questions regarding the cleaning, maintenance and monitoring procedures on request to follow which get involved those protection garments affecting the individual operators & patients according to the ruling norms in place for your own savings at the same time.

Conceived,
Designed
and Manufactured
in Italy

SIMAD
X-RAY MEDICAL TECHNOLOGY

A **Sago Medica** Company

SIMAD
X-RAY MEDICAL TECHNOLOGY

iRadSolution Project

The only set of technologies and services that solves any problem related to the management of anti-X PPE within healthcare facilities

Even today there is no set of solutions in Italy and in the world that can equal our iRadSolution Project in terms of technology and completeness.

Each solution was born from listening to the needs of those who, in the healthcare sector, work with protections against ionizing radiation: from the operator to the patient, up to the Radiation Protection Expert



iRad Protection

Wide range of latest generation X-ray PPE with **unique features**

Tag RFID iRadProMaP

For management and identification through the **iRadProMap®** software

iRadProMaP by SIMAD srl inside

Tecnologia iRad Washing & Drying

For complete internal and external washing and sanitizing **(European Patent No. 2987170)**

iRad WASHING & DRYING PPE TECHNOLOGY
Patent No. 2987170

iRad APP

App for **mobile management** of X-ray PPE *

CLEANi Rad

Automatic washing, sanitizing and drying of X-ray protective PPE ** with **repeatable** process quality standard

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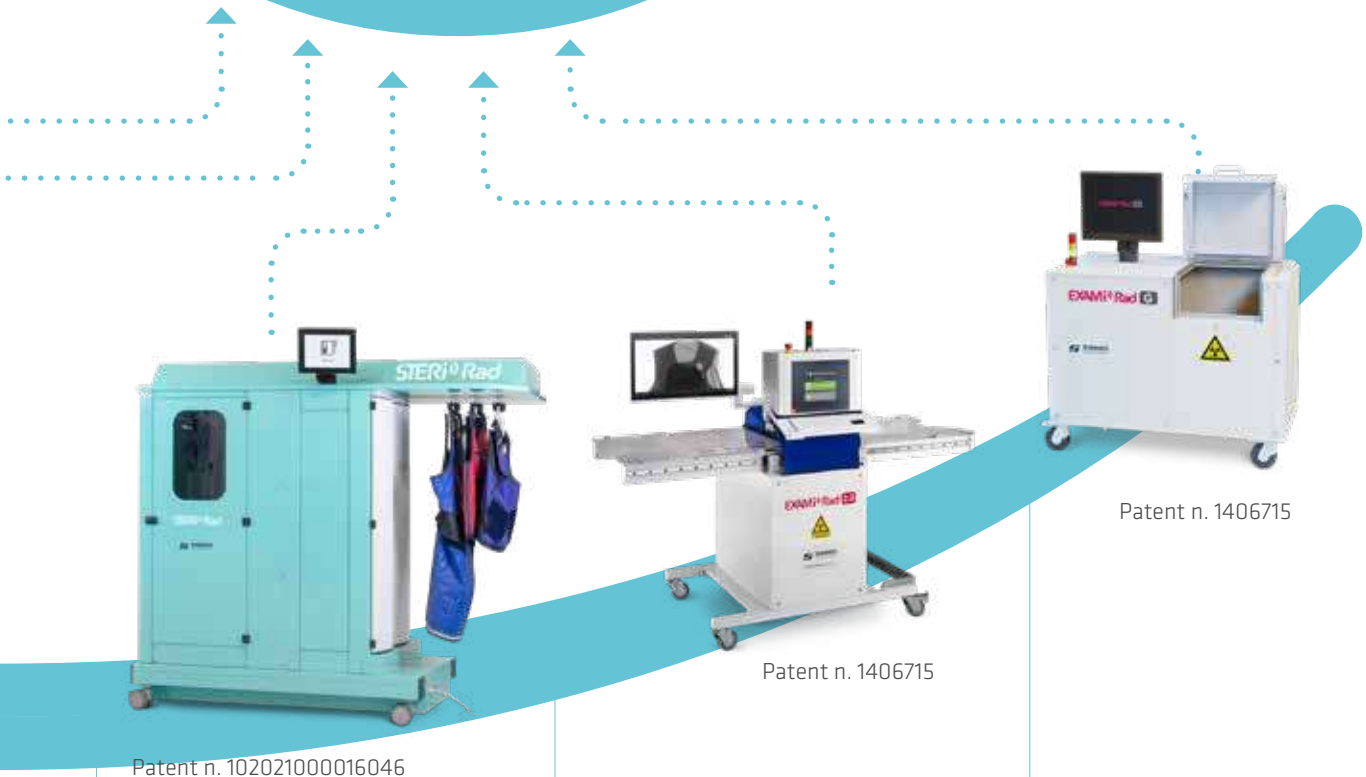


Patent n. 1398323

iRadProMaP®

Software for the **traceability, identification and computerized management** of X-ray protective PPE

Telematic management of washing frequency, sanitization and health status of each individual PPE *.



Patent n. 1406715

Patent n. 1406715

Patent n. 102021000016046

STERi Rad

High-level disinfection (AirJet UVC) of X-ray protective PPE with **repeatable** process quality standard

EXAMi Rad 2.0

Integrity check of **X-ray protective PPE** with **repeatable** process quality standard

EXAMi Rad G

Integrity check of **PPE for the protection of the lens from X-rays** with **repeatable** process quality standard

** X-ray protective PPE with "iRadProMaP® RFID Tag" technology | ** X-ray protective PPE with "SIMAD iRadWashing & Drying" technology European Patent n. 2987170*

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SIMAD X-RAY MEDICAL TECHNOLOGY

Information on X-ray protective PPE

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Anti X-ray materials compliant with regulations

LEADLITE®	ULTRALITE®	ZEROLEAD®
COMPLIANT IEC 61331-1:2014	COMPLIANT IEC 61331-1:2014	COMPLIANT IEC 61331-1:2014
COMPLIANT IEC 61331-3:2014	COMPLIANT IEC 61331-3:2014	COMPLIANT IEC 61331-3:2014
Full Lead material	Light weight Lead composite material	100% lead free. an eco-sustainable technological breakthrough



All our X-ray protective PPE are made in compliance with the international standards relating to Individual X-ray Protections (PPE).

- *IEC 61331-1: 2014 STANDARD*
- *IEC 61331-3: 2014 STANDARD*
- *EU REGULATION 2016/425.*
- *Category III PPE, CERTIFIED BY THE NOTIFIED BODY CE0598*

For each shielding material, the test report carried out by an accredited European metrology institute is available on request.

SIMAD X-RAY MEDICAL TECHNOLOGY

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Choose the ZEROLEAD® core material weight according to your needs

ZEROLEAD® TESTED UP TO 150 kV

2,99 kg/m² *

TO OBTAIN THE 150 KV PROTECTION LEVEL ADD THE NUMBER 5 TO THE FINAL PRODUCT CODE

ZEROLEAD® TESTED UP TO 120 kV

2,84 kg/m² *

TO OBTAIN THE 120 KV PROTECTION LEVEL ADD THE NUMBER 2 TO THE FINAL PRODUCT CODE

You can combinedifferent ZEROLEAD® core material with the different PPE in your kit to increase protection according to operational needs.



** Weight values reported as per test report of ZEROLEAD® shielding material. Technical data may be subject to change without notice*

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SIMAD X-RAY MEDICAL TECHNOLOGY

Our original iconographic system for X-ray protection

To understand at a glance how each of our PPE models protects the person wearing them, we have created a specific iconographic system that allows us to illustrate the different types of wrapping and protection available.

This system can help in choosing the most suitable PPE for the type of use it will be intended for, as well as informing in an intuitive way how our anti x-ray PPE are built.

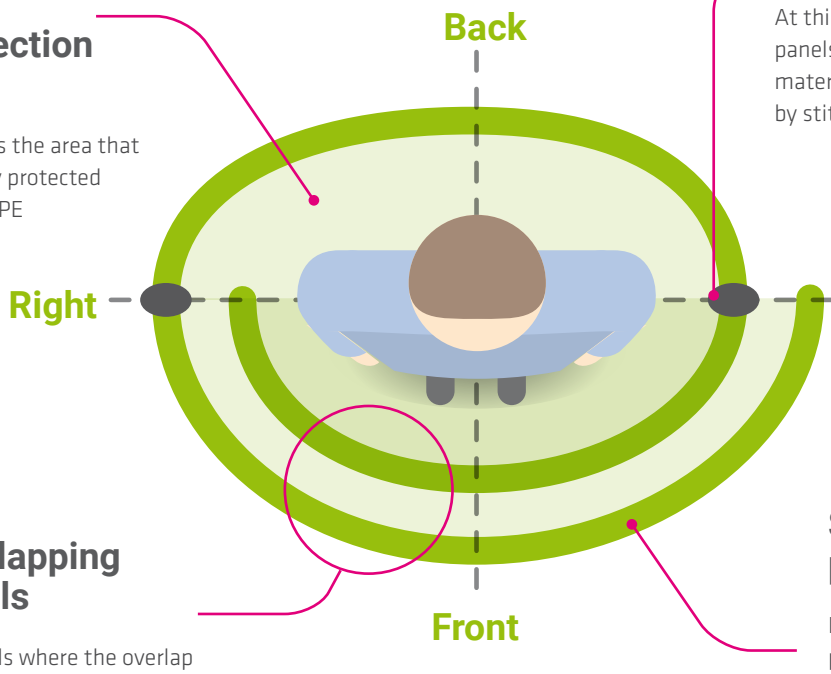
Protection area

Indicates the area that is ideally protected by the PPE

Joining seam

At this point, two panels of shielding material are joined by stitching.





Overlapping panels

In models where the overlap of two panels is foreseen, there is an increase in the attenuation factor.

Shielding panel

Each green line represents a PPE panel composed of the internal foil of shielding material and the external coating. Their length ideally determines the portion of the body it protects.



Disclaimer

The icons are graphical representations for illustrative purposes only.

They represent ideally the X-ray protection of our garments models. Slightly diffrences in the reality cannot be excluded.

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Outer fabric material and colours

The colors represented may differ slightly from reality due to printing

SATIN TOUCH

Satin touch is a range of fabrics infused with **silver nanoparticles** that give a**ntimicrobial properties** to the fabric, thus preventing microbial growth. This advanced material offers all the benefits, while providing a super smooth satin feel, making it extremely comfortable to wear for long periods.

Solid color range

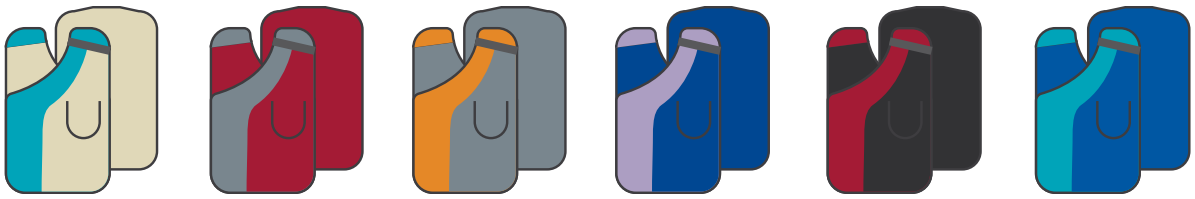


Beige | Cloud Grey | Jet Black | Navy Blue | Electric Blue | Royal Blue | Ocean Green

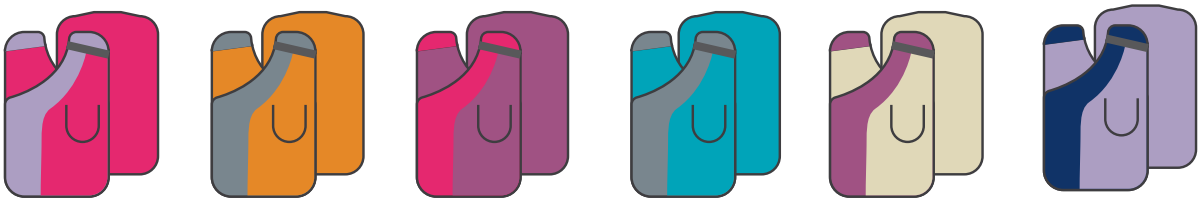


Bordeaux Red | Red Fortress | Tangerine | Lime Fortress | Green Fortress | Purple Fortress | Mauve | Lilac | Pink

Standard colour combinations - Further colour combinations available on request



Beige Ocean Green | Bordeaux Red Cloud Grey | Cloud Grey Tangerine | Electric Blue Lilac | Jet Black Bordeaux Red | Royal Blue Ocean Green



Pink Lilac | Tangerine Cloud Grey | Mauve Pink | Ocean Green Cloud Grey | Beige Mauve | Lilac Electric Blue



Identification labelling as per current norms

Permanent and resistant to washing and wear.

The identification labels of our X-ray protective PPE are made of PVC.

The information is imprinted on them via direct thermal transfer - this way no ink is used and the print lasts over time..

- **Manufacturer name**
- **Supplier name**
- **Model and product reference code**
- **Batch serial number and manufacturing year**
- **CE mark**
- **4 digits code identifying the Notified Body in charge of the issued Certification**
- **Protection material type in use**
- **Protection level supplied in mm Pb equivalent (specified for both the front and the rear where present)**
- **kV energy / voltage used to test and determine the attenuation values provided**
- **Sizing details**
- **Recommendations on use and maintenance**



X-ray protective **vest** and **skirts** for operators

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Vest iRad Protection MAXIMA

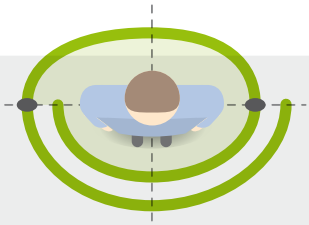
Front and rear protection vest with front overlapping of panels from right to left side, suitable for prolonged workload over time.

- Fully enveloping model
- Front protection with front panels that completely overlap
- External lining in easily washable water-repellent material
- Front closure with Velcro
- Internal pocket for dosimeter
- External storage pocket
- Padded shoulder straps with x-ray protection



Protection

Front, side and back protection, with joining seam.



Protection levels - (front/back)

.25 / .25	.35 / .25	.50 / .25	.50 / .35
mmPb Eq.	mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Available sizes

XS	S	M	L	XL	2XL	3XL	4XL

UNIQUE FEATURES ON REQUEST

iRadProMaP RFID Tag

For management and identification through the **iRadProMap® software**

IRad Washing & Drying Technology

For internal and external washing and complete sanitization **(European Patent No. 2987170)**

SIMAD Radioprotection / tel 051 6860811 / fax 051 6861246 / info@simad.net / www.simad.net



iRadProMaP by SIMAD srl

RFID tag for management and identification through the iRadProMap software.

Internal dosimeter pocket as per standard supply



Customization options

Different colors and coatings
See page 11



Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip



Embroidered logo



Vest
iRad Protection
MAXIMA PARTIAL

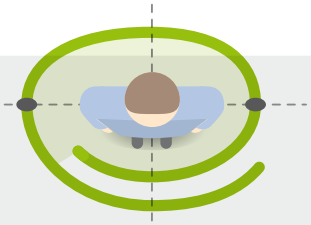
Front and rear protection vest with front overlapping panels, suitable for prolonged workloads.

- Fully enveloping model
- Front protection with overlapping front panels
- External lining in easily washable water-repellent material
- Front Velcro closure
- Internal pocket for dosimeter
- External storage pocket
- Padded shoulder straps with x-ray protection



Protection

Front, side and back protection, with joining seam.



Protection levels - (front/back)

.25 / .25	.35 / .25	.50 / .25	.50 / .35
mmPb Eq.	mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Available sizes

XS	S	M	L	XL	2XL	3XL	4XL

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RFID tag for management and identification through the iRadProMap software.



Internal dosimeter pocket as per standard supply



Customization options

Different colors and coatings
See page 11



Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip



Embroidered logo



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SIMAD
X-RAY MEDICAL TECHNOLOGY

Vest
iRad Protection
OPTIMA

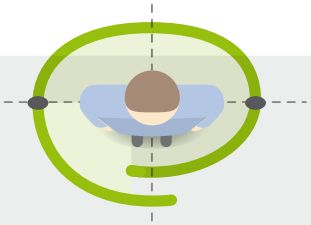
Vest with front and back panels suitable
for prolonged workloads..

- Quick-to-wear "jacket" model
- Front Velcro closure
- External lining in easily washable water-repellent material
- Internal pocket for dosimeter
- External storage pocket
- Padded shoulder straps with x-ray protection



Protection

Front, side and back protection with joining seam



Protection levels - (front/back)

.25 / .25	.35 / .25	.50 / .25	.50 / .35
mmPb Eq.	mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE® | **ULTRALITE®** | **ZEROLEAD®**

Available sizes

XS	S	M	L	XL	2XL	3XL	4XL

UNIQUE FEATURES ON REQUEST

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iRadProMaP by SIMAD srl

RFID tag for management and identification through the iRadProMap software.

Internal dosimeter pocket as per standard supply



Customization options

Different colors and coatings
See page 11



Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip



Embroidered logo



Vest
iRad Protection
OPTIMA LATERAL

Vest with front and back panels with lateral overlap, designed for those who mainly expose the sides of the body to radiation during their work activities.

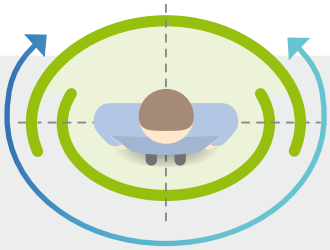
- A "tunic" model that is completely enveloping and quick to put on
- Full front, back and side protection
- Guarantees protection for over 60% of the body circumference**
- External lining in easily washable water-repellent material
- Front Velcro closure on the sides
- Internal pocket for dosimeter
- External storage pocket
- Padded shoulder straps with x-ray protection



*** Body circumference understood as the largest circumference between shoulders, chest and abdomen. For more information on PPE, consult the safety data sheet available on request*

Protection

Front, side and back protection, without joining seam.



60%

IEC 61331-3:2014
CEI 61331-3:2015
(DIN EN 61331-3:2016)

Protection levels - (front/back)

.25 / .25	.35 / .25	.50 / .25	.50 / .35
mmPb Eq.	mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Available sizes

XS	S	M	L	XL	2XL	3XL	4XL

UNIQUE FEATURES ON REQUEST

iRadProMaP RFID Tag

For management and identification through the **iRadProMap® software**

IRad Washing & Drying Technology

For internal and external washing and complete sanitization **(European Patent No. 2987170)**

SIMAD X-RAY MEDICAL TECHNOLOGY

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RFID tag for management and identification through the iRadProMap software.



Internal dosimeter pocket as per standard supply



Customization options

Different colors and coatings
See page 11



Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip



Embroidered logo



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Vest
iRad Protection
OPTIMA OVERLAP

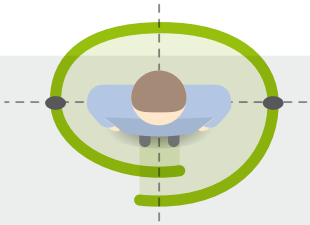
Vest with front and back panels suitable for prolonged workloads..

- Quick-to-wear "jacket" model
- Front Velcro closure
- External lining in easily washable water-repellent material
- Internal pocket for dosimeter
- External storage pocket
- Padded shoulder straps with x-ray protection



Protection

Front, side and back protection with joining seam.
Front partial overlap.



Protection levels - (front/back)

.25 / .25	.35 / .25	.50 / .25	.50 / .35
mmPb Eq.	mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Available sizes

XS	S	M	L	XL	2XL	3XL	4XL

UNIQUE FEATURES ON REQUEST

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iRadPro MaP by SIMAD srl

RFID tag for management and identification through the iRadProMap software.



OVERLAP VERSION has a doubled front protection at the level of the central vital organs

Internal dosimeter pocket as per standard supply



Customization options

Different colors and coatings
See page 11



Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip



Embroidered logo



Vest
iRad Protection
ERGO FIT

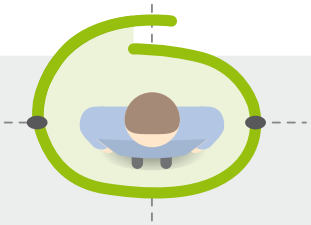
Vest with single front panel and 2 partial overlapping panels on the back. This comes available as the lightest Vest model from the range and it is particulary recommended for use during long time procedures.

- Full protection style side by side
- External lining in easily washable water-repellent material
- Closure on the back and Velcro on the lateral sides
- Internal pocket for dosimeter
- External storage pocket
- Padded shoulder straps with x-ray protection



Protection

Front, side and back protection with joining seam.



Protection levels - (front/back)

.25 / .25	.35 / .25	.50 / .25	.50 / .35
mmPb Eq.	mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Available sizes

XS	S	M	L	XL	2XL	3XL	4XL

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RFID tag for management and identification through the iRadProMap software.



Internal dosimeter pocket as per standard supply



Customization options

Different colors and coatings
See page 11



Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip



Embroidered logo



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SIMAD
X-RAY MEDICAL TECHNOLOGY

Skirt
iRad Protection
OPTIMA / MAXIMA

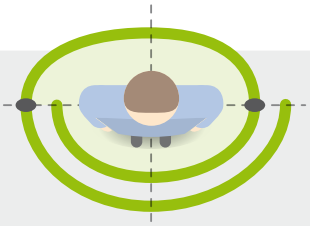
Lower body protection to be used in conjunction with a vest model of your choice. Suitable for prolonged workload over time.

- Fully enveloping model
- Front protection with overlapping front panels
- External lining in easily washable water-repellent material
- Front closure with Velcro and belt with Clip



Protection

Front, side and back protection, with joining seam.



Protection levels - (front/back)

.25 / .25	.35 / .25	.50 / .25	.50 / .35
mmPb Eq.	mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Available sizes

XS	S	M	L	XL	2XL	3XL	4XL

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Comfort options

Internal elastic band.
Improve lumbar support



Integrated velcro support belt.
It increases lumbar support and makes it easier to put on





Front closure with Velcro and belt with clip





iRadProMaP by SIMAD srl

RFID tag for management and identification through the iRadProMap software.

Customization options

Different colors and coatings
See page 11



Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip



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X-ray protective **aprons** for operators

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Double-sided Apron iRad Protection MAXIMA

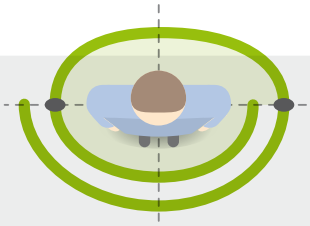
Front and rear protection apron with front overlapping of panels from right to left side, suitable for prolonged workload over time.

- Fully enveloping model
- Front protection with front panels that completely overlap
- External coating in easily washable water-repellent material
- Front closure with Velcro
- Internal pocket for dosimeter
- External storage pocket
- Padded shoulder straps with x-ray protection



Protection

Front, side and back protection with joining seam.



Protection levels - (front/back)

.25 / .25	.35 / .25	.50 / .25	.50 / .35
mmPb Eq.	mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Available sizes

XS	S	M	L	XL	2XL	3XL	4XL

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RFID tag for management and identification through the iRadProMap software.

The use of a lumbar belt helps you to increase working comfort.

Internal dosimeter pocket as per standard supply



Customization options

Different colors and coatings
See page 11



Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip



External support belt:
Available ONLY in solid color.



Embroidered logo



tel 051 6860811 / fax 051 6861246 / info@simad.net / www.simad.net / **SIMAD Radioprotection**

SIMAD X-RAY MEDICAL TECHNOLOGY

Double-sided Apron iRad Protection MAXIMA PARTIAL

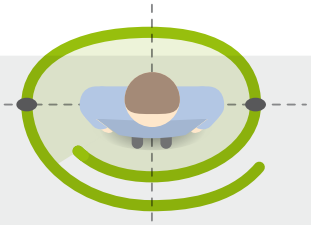
Apron for complete front and back protection.
Front protection with overlapping panels.
Suitable for prolonged workload over time.

- Fully enveloping model
- Front protection with overlapping front panels
- External lining in easily washable water-repellent material
- Front closure with Velcro
- Internal pocket for dosimeter
- External storage pocket
- Padded shoulder straps with x-ray protection



Protection

Front, side and back protection with joining seam.



Protection levels - (front/back)

.25 / .25	.35 / .25	.50 / .25	.50 / .35
mmPb Eq.	mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Available sizes

XS	S	M	L	XL	2XL	3XL	4XL

UNIQUE FEATURES ON REQUEST

iRadProMaP RFID Tag

For management and identification through the **iRadProMap® software**

iRad Washing & Drying Technology

For internal and external washing and complete sanitization **(European Patent No. 2987170)**

SIMAD Radioprotection / tel 051 6860811 / fax 051 6861246 / info@simad.net / www.simad.net







RFID tag for management and identification through the iRadProMap software.

Comfort options

Internal elastic band.
Improve lumbar support



Integrated velcro support belt.
It increases lumbar support and makes it easier to put on



Internal dosimeter pocket as per standard supply



Customization options

Different colors and coatings
See page 11



Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip



External support belt:
Available ONLY in solid color.



Embroidered logo



Double-sided Apron iRad Protection OPTIMA

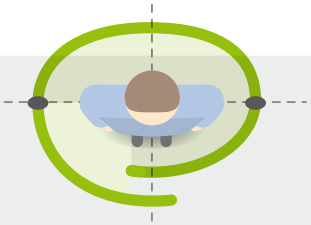
Gown for complete front and back protection. Front protection with partial overlapping of the two flaps. Suitable for a short workload.

- Simple and practical to wear.
- Fully enveloping model
- Front protection with front panels that partially overlap
- External lining in easily washable water-repellent material
- Front closure with Velcro
- Internal pocket for dosimeter
- External storage pocket
- Padded shoulder straps with x-ray protection



Protection

Front, side and back protection with joining seam.



Protection levels - (front/back)

.25 / .25	.35 / .25	.50 / .25	.50 / .35
mmPb Eq.	mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Available sizes

XS	S	M	L	XL	2XL	3XL	4XL

UNIQUE FEATURES ON REQUEST

iRadProMaP RFID Tag

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SIMAD Radioprotection / tel 051 6860811 / fax 051 6861246 / info@simad.net / www.simad.net





RFID tag for management and identification through the iRadProMap software.

Internal dosimeter pocket as per standard supply



Customization options

Different colors and coatings
See page 11



Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip



External support belt:
Available ONLY in solid color.



Embroidered logo



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Double-sided Apron iRad Protection OPTIMA LATERAL

Gown with front and back panels with lateral overlap, designed for those who expose mainly the sides of the body to radiation during work activities.

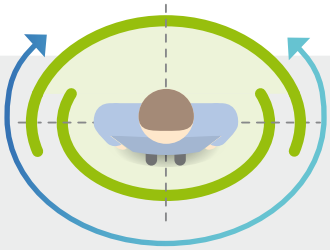
- Composed of a front and a back panel for protection from shoulder to knee.
- Complete front, back and lateral protection
- Ensures protection for over 60% of the body circumference**
- Partial overlap of the panels on the right and left sides.
- Suitable for prolonged workload.
- External coating in easily washable water-repellent material
- Internal pocket for dosimeter
- External storage pocket
- Padded shoulder straps with x-ray protection



*** Body circumference understood as the largest circumference between shoulders, chest and abdomen. For more information on PPE, consult the safety data sheet available on request*

Protection

Front, side and back protection without joining seam.



60%

IEC 61331-3:2014
CEI 61331-3:2015
(DIN EN 61331-3:2016)

Protection levels - (front/back)

.25 / .25	.35 / .25	.50 / .25	.50 / .35
mmPb Eq.	mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE® | **ULTRALITE®** | **ZEROLEAD®**

Available sizes

XS	S	M	L	XL	2XL	3XL	4XL

UNIQUE FEATURES ON REQUEST

iRadProMaP RFID Tag

For management and identification through the **iRadProMap® software**

iRad Washing & Drying Technology

For internal and external washing and complete sanitization **(European Patent No. 2987170)**

SIMAD X-RAY MEDICAL TECHNOLOGY
SIMAD Radioprotection / tel 051 6860811 / fax 051 6861246 / info@simad.net / www.simad.net





RFID tag for management and identification through the iRadProMap software.

Internal dosimeter pocket as per standard supply



Customization options

Different colors and coatings
See page 11



Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip



External support belt:
Available ONLY in solid color.



Embroidered logo



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Double-sided Apron iRad Protection OPTIMA OVERLAP

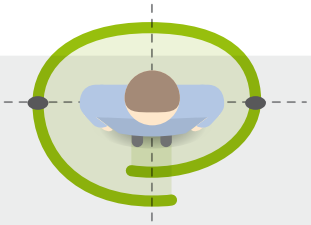
Gown for complete front and back protection. Front protection with partial overlapping of the two flaps. Suitable for a short workload.

- Simple and practical to wear.
- Fully enveloping model
- Front protection with front panels that partially overlap
- External lining in easily washable water-repellent material
- Front closure with Velcro
- Internal pocket for dosimeter
- External storage pocket
- Padded shoulder straps with x-ray protection



Protection

Front, side and back protection, with joining seam.
Front partial overlap.



Protection levels - (front/back)

.25 / .25	.35 / .25	.50 / .25	.50 / .35
mmPb Eq.	mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Available sizes

XS	S	M	L	XL	2XL	3XL	4XL

UNIQUE FEATURES ON REQUEST

iRadProMaP RFID Tag

For management and identification through the **iRadProMap® software**

iRad Washing & Drying Technology

For internal and external washing and complete sanitization **(European Patent No. 2987170)**

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RFID tag for management and identification through the iRadProMap software.

OVERLAP VERSION has a doubled front protection at the level of the central vital organs

Internal dosimeter pocket as per standard supply



Customization options

Different colors and coatings
See page 11



Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip



External support belt:
Available ONLY in solid color.



Embroidered logo



Coat Apron iRad Protection BASIC

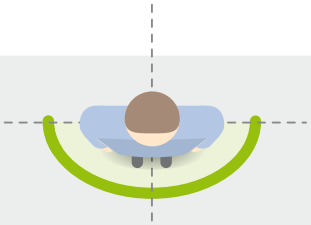
Single front panel which guarantees protection from shoulders to knees.

- Full front protection
- External coating in easily washable water-repellent material
- Internal pocket for dosimeter
- External storage pocket
- Padded shoulder straps with x-ray protection



Protection

Front.



Protection levels - (front)

.25	.35	.50
mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Available sizes

S	M	L	XL	2XL	3XL

UNIQUE FEATURES ON REQUEST

iRadProMaP RFID Tag

For management and identification through the **iRadProMap® software**

iRadProMaP by SIMAD srl

iRad Washing & Drying Technology

For internal and external washing and complete sanitization **(European Patent No. 2987170)**

iRad WASHING & DRYING PPE TECHNOLOGY Patent No. 2987170

SIMAD X-RAY MEDICAL TECHNOLOGY

SIMAD Radioprotection / tel 051 6860811 / fax 051 6861246 / info@simad.net / www.simad.net





RFID tag for management and identification through the iRadProMap software.

Internal dosimeter pocket as per standard supply



Customization options

Different colors and coatings
See page 11



Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip



External support belt:
Available ONLY in solid color.



Embroidered logo



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Coat Apron iRad Protection
BACK PROTECTION

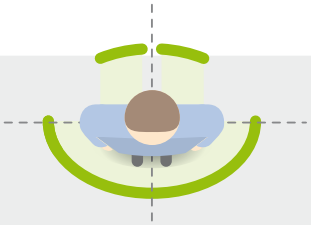
Single front panel which guarantees protection from shoulders to knees.

- Full front and scapular protection
- Crossover back closure and velcro on the sides
- External coating in easily washable water-repellent material
- Internal pocket for dosimeter
- External storage pocket
- Padded shoulder straps with x-ray protection



Protection

Front and scapular.



Protection levels - (front/back)

.25 / .25	.35 / .25	.50 / .25	.50 / .35
mmPb Eq.	mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Available sizes

S	M	L	XL

UNIQUE FEATURES ON REQUEST

iRadProMaP RFID Tag

For management and identification through the **iRadProMap® software**

iRad Washing & Drying Technology

For internal and external washing and complete sanitization **(European Patent No. 2987170)**

SIMAD Radioprotection / tel 051 6860811 / fax 051 6861246 / info@simad.net / www.simad.net



RFID tag for management and identification through the iRadProMap software.

iRadProMaP by SIMAD srl

Scapular protection from X-rays included

Internal dosimeter pocket as per standard supply



Customization options

Different colors and coatings
See page 11



Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip



External support belt:
Available ONLY in solid color.



Embroidered logo



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SIMAD X-RAY MEDICAL TECHNOLOGY

Coat Apron iRad Protection FRONT SNAPLOCK

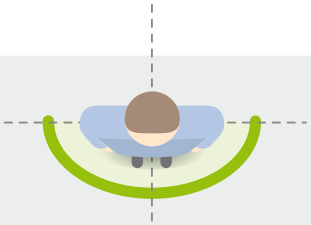
Single front panel which guarantees protection from shoulders to knees. Particularly suitable for short time procedures

- Full front protection
- External coating in easily washable water-repellent material
- Front closure with adjustable clip buckle
- Internal pocket for dosimeter
- External storage pocket
- Padded shoulder straps with x-ray protection



Protection

Front.



Protection levels - (front)

.25	.35	.50
mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Available sizes

S	M	L	XL	2XL	3XL

UNIQUE FEATURES ON REQUEST

iRadProMaP RFID Tag

For management and identification through the **iRadProMap® software**

iRad Washing & Drying Technology

For internal and external washing and complete sanitization **(European Patent No. 2987170)**

SIMAD Radioprotection / tel 051 6860811 / fax 051 6861246 / info@simad.net / www.simad.net





RFID tag for management and identification through the iRadProMap software.

inside
iRadProMaP
by SIMAD srl

Internal dosimeter pocket as per standard supply



Customization options

Different colors and coatings
See page 11



Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip



Embroidered logo



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SIMAD
X-RAY MEDICAL TECHNOLOGY

Coat Apron iRad Protection BACK SNAPLOCK

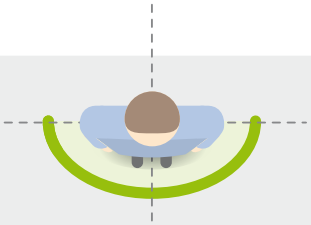
Single front panel which guarantees protection from shoulders to knees. Particularly suitable for short time procedures

- Full front protection
- External coating in easily washable water-repellent material
- Back closure with adjustable clip buckle
- Internal pocket for dosimeter
- External storage pocket
- Padded shoulder straps with x-ray protection



Protection

Front.



Protection levels - (front)

.25	.35	.50
mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Available sizes

S	M	L	XL	2XL	3XL

UNIQUE FEATURES ON REQUEST

iRadProMaP RFID Tag

For management and identification through the **iRadProMap® software**

iRad Washing & Drying Technology

For internal and external washing and complete sanitization **(European Patent No. 2987170)**

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RFID tag for management and identification through the iRadProMap software.



Internal dosimeter pocket as per standard supply



Customization options

Different colors and coatings
See page 11



Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip



Embroidered logo



Apron iRad Protection SURGICAL DROP-OFF

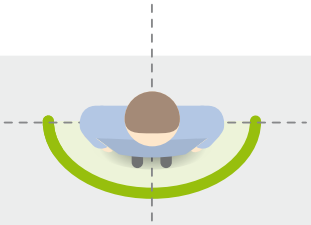
This comes available with 1 only front protection panel. Easily removable with no need to remove the sterile garment in use.

- Full front protection
- Recommended for long time procedures
- Ease of movement
- Handly and quick wearability features
- External lining in easily washable water-repellent material
- Internal pocket for dosimeter
- External storage pocket
- Padded shoulder straps with x-ray protection



Protection

Front.



Protection levels - (front)

.25	.35	.50
mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Available sizes

S	M	L	XL

UNIQUE FEATURES ON REQUEST

iRadProMaP RFID Tag

For management and identification through the **iRadProMap® software**

iRad Washing & Drying Technology

For internal and external washing and complete sanitization **(European Patent No. 2987170)**

SIMAD Radioprotection / tel 051 6860811 / fax 051 6861246 / info@simad.net / www.simad.net



iRadProMaP by SIMAD srl

RFID tag for management and identification through the iRadProMap software.

Apron closure designed to easily open and quickly slide off during surgical operations in the operating room



Internal dosimeter pocket as per standard supply



Customization options

Different colors and coatings
See page 11



Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip



Embroidered logo



Apron
iRad Protection
UROLOGY

Gown for complete front protection, with cuts that allows easily operator work and lateral belts to better the apron on the patient.

- External lining in easily washable water-repellent material
- Internal pocket for dosimeter
- External storage pocket
- Padded shoulder straps with x-ray protection

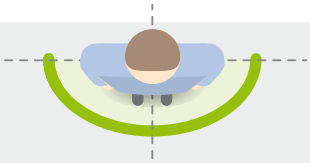


RFID tag for management and identification through the iRadProMap software.



Protection

Front.



Protection levels - (front)

.25	.35	.50
mmPb Eq.	mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Available sizes

S	M	L	XL

Internal dosimeter pocket as per standard supply



Customization options

Different colors and coatings
See page 11

Embroidered lettering in two options:
- Stitched on the PPE
- On removable velcro strip

Embroidered logo

UNIQUE FEATURES ON REQUEST

iRadProMaP RFID Tag

For management and identification through the **iRadProMap® software**

iRad Washing & Drying Technology

For internal and external washing and complete sanitization **(European Patent No. 2987170)**

SIMAD X-RAY MEDICAL TECHNOLOGY

SIMAD Radioprotection / tel 051 6860811 / fax 051 6861246 / info@simad.net / www.simad.net



Breast and axillary X-ray protection for operators

tel 051 6860811 / fax 051 6861246 / info@simad.net / www.simad.net / **SIMAD Radioprotection**

SIMAD
X-RAY MEDICAL TECHNOLOGY

iRad Protection
Breast X-Saver

The SIMAD accessory specific for breast protection of operators with full axillary closure.

A recent **Italian study***, has shown how operators performing interventional radiology, are **more exposed to X-rays in the left side of the chest**.

These kind of studies show the importance of taking protective measures, and **how PPE must deeply consider the needs of the operators** assuring a correct and complete protection from x-rays.

Breast X-Saver is the accessory designed specifically to meet this need. Combined with the anti X-ray apron or vest, it allows the protection of the axillary and breast area.



Austin Journal of Women's Health

Austin Publishing Group

Special Article - Internal Medicine

Chest Exposure to X-Rays of Female Interventional Electrophysiologist

[...] In order to evaluate the consequent thoracic Ionizing Radiation incident dose and to verify the impact of varying operational and environmental conditions, we manufactured an under-the-lead-apron wearable cotton jacket, with a fixed position sewed set of 60 TLD-100 thermoluminescence dosimeters (Figure 1a).[...]



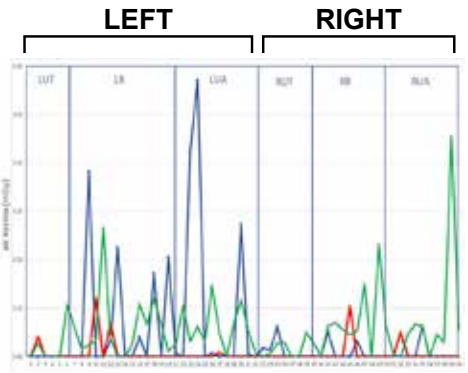


Figure 3: Cumulative torso dose during the observational study. Ordinata: measured air kerma values (mGv). Abscissa: fixed dosimeter number. From left to right plotted dose data related to: LUT (dosimeter 1-5), LB (6-21), LUA (22-32), RUT (33-36), RB (37-50), RUA (51-60). Color code: Blue: first period; Red: second period; Green: third period.

Abbreviations: Left Upper Thorax (LUT), Left Breast (LB), Left Upper Abdomen (LUA), Right Upper Thorax (RUT), Right Breast (RB) Right Upper Abdomen region (RUA)



DOWNLOAD THE COMPLETE PDF OF THE STUDY

* Giaccardi M, Turreni F, Rossi F, Chechi T and Mazzocchi S., in *Chest Exposure to X-Rays of Female Interventional Electrophysiologist*. <<Austin J Womens Health>>, 2021; 8(1): 1048.

SIMAD X-RAY MEDICAL TECHNOLOGY

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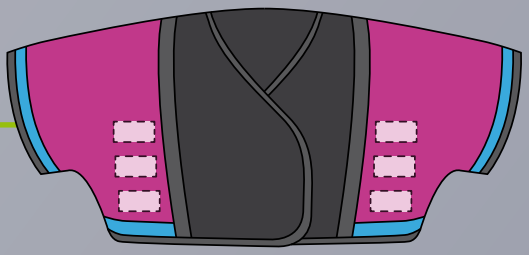
PROTECTION
Customized solution
Three protection level configurations and adjustable velcro closure to fit the operator

COMFORT
Lightweight and breathable materials
Composition that guarantees comfort during operations

TRACEABILITY
Integrated Tag RFID iRadProMap
For identification and management by iRadProMap® software

HYGIENE
iRad Washing & Drying technology
For complete washing and sanitizing, both internal and external (European Patent n. 2987170)

N.6 internal integrated dosimeter holder (n.3 SX, n.3 DX), with possibility of seal closure









Protection Levels (Front/Back)

.25 / .25
mmPb Eq.

Protective material

ZEROLEAD®

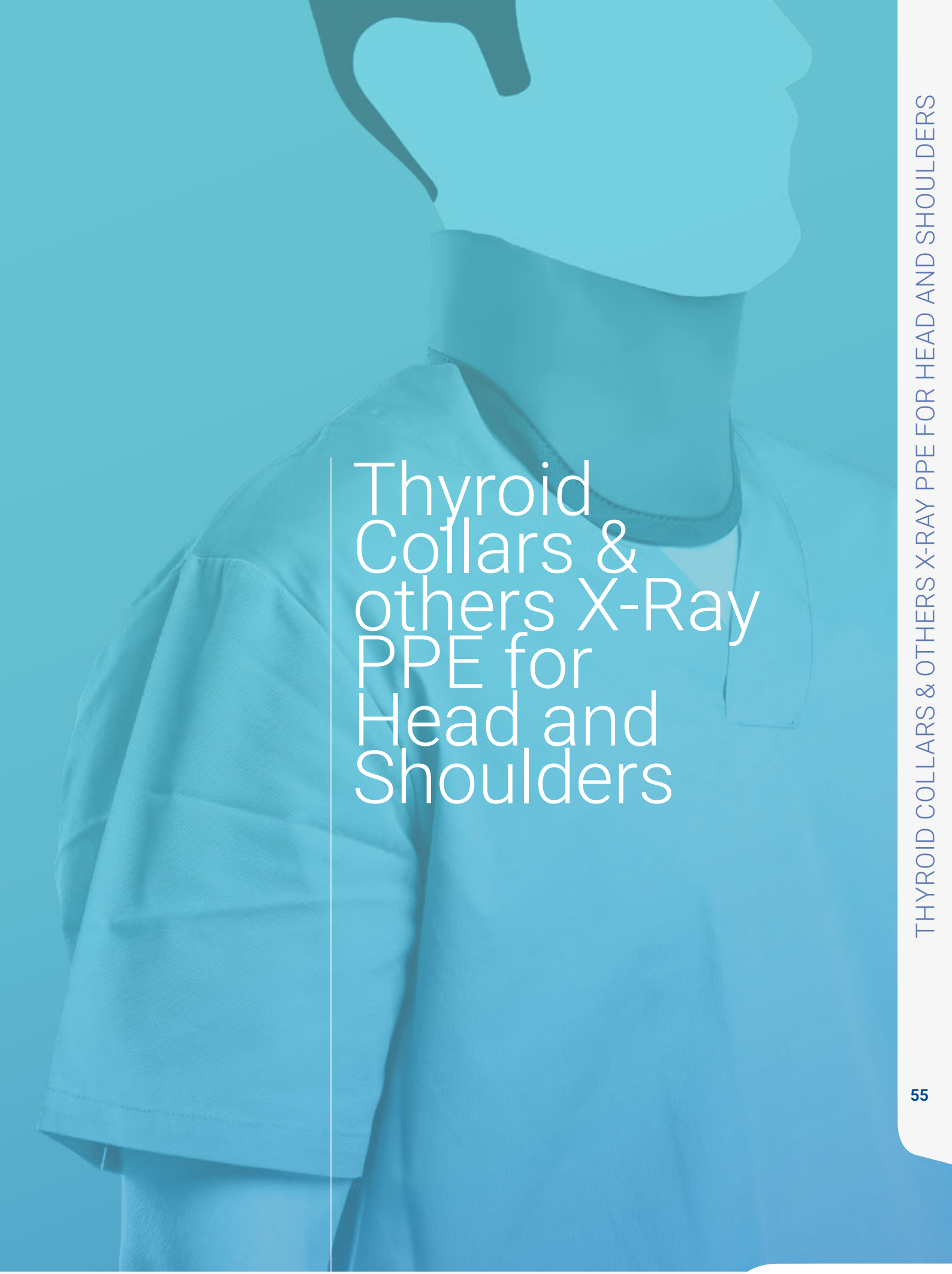
Available sizes

S	M	L

Code Size S: **XRSXABXLTCJBSF1**
Code Size M: **XRSXABXLTCJBSF2**
Code Size L: **XRSXABXLTCJBSF3**

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SIMAD X-RAY MEDICAL TECHNOLOGY



Thyroid Collars & others X-Ray PPE for Head and Shoulders

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SIMAD
X-RAY MEDICAL TECHNOLOGY



Collar iRad Protection
ULTRASLIMLINE

- Complete thyroid protection
- Ergonomic shape
- External coating in easily washable water-repellent material
- Velcro or magnetic closure
- Different colors available (Solid colors ONLY)

Protection levels

.35 mmPb Eq.	.50 mmPb Eq.

Available size

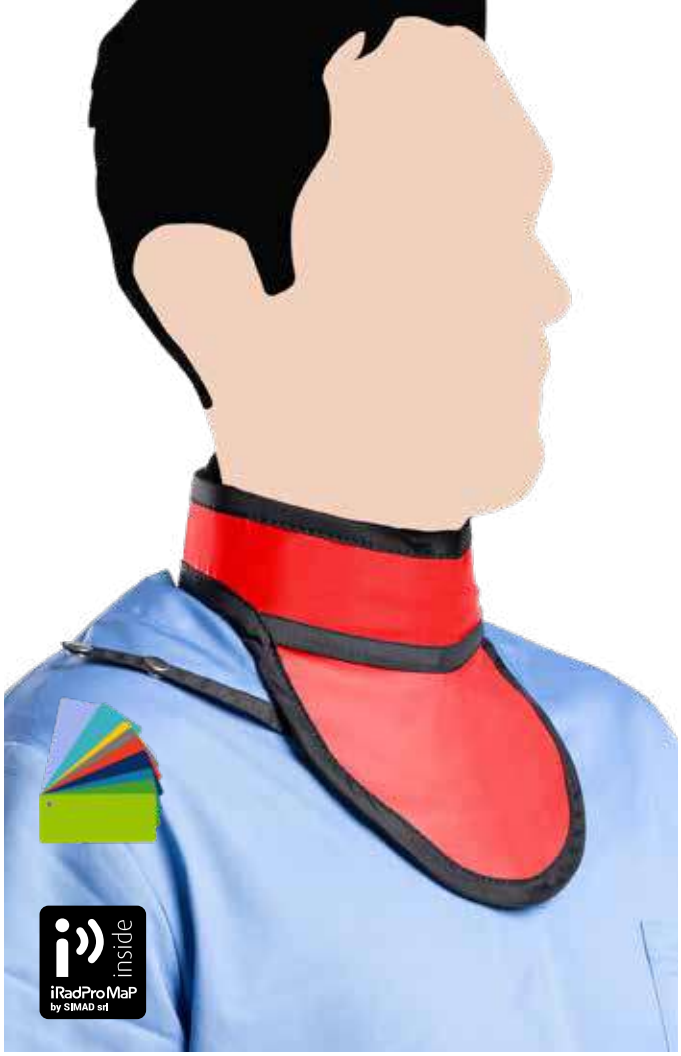
universal

X-ray protective materials

LEADLITE® | **ULTRALITE®** | **ZEROLEAD®**

Customization options

- **iRadProMaP RFID Tag** for management and identification through the iRadProMap® software
- **iRad Washing & Drying Technology** for complete washing and sanitization
- **Embroidered lettering** on removable Velcro strip
- Custom additional option of **embroidered logo**



Collar iRad Protection
HARMONY

- Complete protection of the thyroid and sternum
- External coating in easily washable water-repellent material
- Velcro or magnetic closure
- Ergonomic shape
- Different colors available (Solid colors ONLY)

Protection levels

.35 mmPb Eq.	.50 mmPb Eq.

Available size

universal

X-ray protective materials

LEADLITE® | **ULTRALITE®** | **ZEROLEAD®**

Customization options

- **iRadProMaP RFID Tag** for management and identification through the iRadProMap® software
- **iRad Washing & Drying Technology** for complete washing and sanitization
- **Embroidered lettering** on removable Velcro strip
- Custom additional option of **embroidered logo**



Collar iRad Protection
CLASSIC

- Complete protection of the thyroid and sternum
- Ergonomic shape
- External coating in easily washable water-repellent material
- Velcro or magnetic closure
- Different colors available (Solid colors ONLY)

Protection levels

.35 mmPb Eq.	.50 mmPb Eq.

Available size

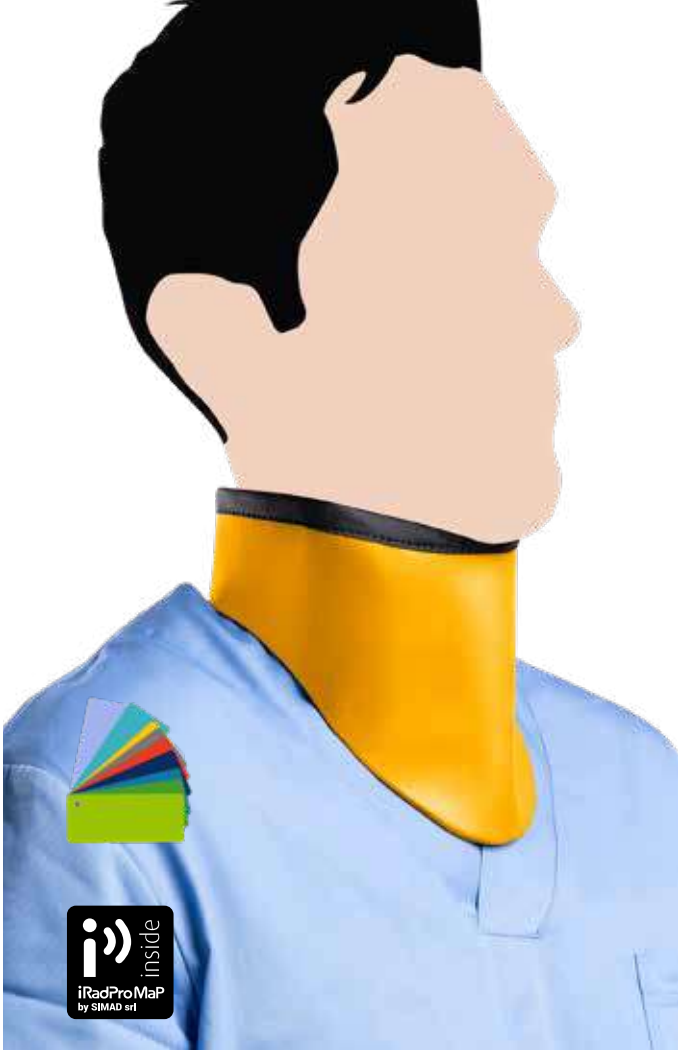
universal

X-ray protective materials

LEADLITE® | **ULTRALITE®** | **ZEROLEAD®**

Customization options

- **iRadProMaP RFID Tag** for management and identification through the iRadProMap® software
- **iRad Washing & Drying Technology** for complete washing and sanitization
- **Embroidered lettering** on removable Velcro strip
- Custom additional option of **embroidered logo**



Collar iRad Protection
SLIM

- Wide protection of the thyroid and sternum without seams
- Ergonomic shape
- External coating in water-repellent material easily washable
- Velcro or magnetic closure
- Different colors available (Solid colors ONLY)

Protection levels

.35 mmPb Eq.	.50 mmPb Eq.

Available size

universal

X-ray protective materials

LEADLITE® | **ULTRALITE®** | **ZEROLEAD®**

Customization options

- **iRadProMaP RFID Tag** for management and identification through the iRadProMap® software
- **iRad Washing & Drying Technology** for complete washing and sanitization
- **Embroidered lettering** on removable Velcro strip
- Custom additional option of **embroidered logo**



Collar iRad Protection ELEGANT

- Complete protection of the thyroid and sternum
- External coating in easily washable water-repellent material
- Velcro or magnetic closure
- Ergonomic shape
- Different colors available (Solid colors ONLY)

Protection levels

.35 mmPb Eq.	.50 mmPb Eq.

Available size

universal

Customization options

- **iRadProMaP RFID Tag** for management and identification through the iRadProMap® software
- **iRad Washing & Drying Technology** for complete washing and sanitization
- **Embroidered lettering** on removable Velcro strip
- Custom additional option of **embroidered logo**

Collar Accessories



Reusable Thyroid Collar Cover

- Washable Cotton Collar Cover
- Suitable for personal use.
- Preserves the hygiene of the device

DESCRIPTION	UM	CODE
Reusable Thyroid Collar Cover	pz	**XR00102010001**



Disposable Thyroid Collar Cover

- In disposable TNT
- Preserves the hygiene of the device
- Adhesive strip for fixing to the PPE
- Available in minimum quantities of 50pcs

DESCRIPTION	UM	CODE
Disposable Thyroid Collar Cover pc x 2000pcs	cf	**XR0067440**



X-Ray Protective Cap
Head Protection

- Designed for ease of wearing and removal
- The head and ears stay safe, inside head gear, from radiations
- Flexible & Supple
- Different sizes and colors available (Solid colors ONLY)

Protection levels

.25 mmPb Eq.	.35 mmPb Eq.	.50 mmPb Eq.	.1 mmPb Eq.

Available sizes

S / M Ø 55 cm	L / XL Ø 65 cm

X-ray protective materials

LEADLITE® | ULTRALITE® | ZEROLEAD®

Customization options

- **iRadProMaP RFID Tag** for management and identification through the iRadProMap® software
- **iRad Washing & Drying Technology** for complete washing and sanitization
- **Embroidered lettering** on removable Velcro strip
- Custom additional option of **embroidered logo**



X-Ray Protective Accessory
Shoulder Protection

- Prevent radiation from being scattered to the shoulders
- Can be paired with wrap around styles apron and vest
- Usable in all radiology procedures
- One-size-fits-all
- Different colors available (Solid colors ONLY)

Protection levels

.50 mmPb Eq.

Available size

universal

X-ray protective materials

LEADLITE® | ULTRALITE® | ZEROLEAD®

Customization options

- **iRadProMaP RFID Tag** for management and identification through the iRadProMap® software
- **iRad Washing & Drying Technology** for complete washing and sanitization
- **Embroidered lettering** on removable Velcro strip
- Custom additional option of **embroidered logo**



X-Ray Protective Gloves

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STERILE

LEAD

X-Ray Protective Surgical Gloves **Disposable, Lead-free**

Progettati tenendo presente le esigenze specifiche di chirurgo, infermiere e tecnico di sala operatoria.

- Disponibili in n.3 diversi spessori: MAX, THIN, ULTRA THIN
- Flessibili, confortevoli e semplici da indossare e togliere
- Rivestiti internamente con materiale ipoallergenico
- Massima protezione dalle radiazioni con la massima sensibilità possibile
- Superficie microruvida per una presa sicura
- 100% sterili e senza polveri

Available sizes

TAGLIA	LARG. PALMO (MM)	LUNG. (MM)
6	78	Min. 280
6.5	80	Min. 280
7.0	85	Min. 280
7.5	94	Min. 285
8.0	100	Min. 285
8.5	107	Min. 290
9.0	114	Min. 290

MAX MODEL

Protection level and thickness

.040	0,35
mmPb Eq. @ 60kV	mm ca - at the fingertip

Attenuation level

REFERENCE VOLTAGE **(IEC 61331-1:2014)**	REDUCTION ON THE SKIN
60 kV	55%
80 kV	45%
100 kV	39%
130 kV	33%

DESCRIPTION	UM	CODE
Lead-free X-ray protective Gloves Max Size 6	cp	**XRX1D12100**
Lead-free X-ray protective Gloves Max Size 6.5	cp	**XRX1D12101**
Lead-free X-ray protective Gloves Max Size 7	cp	**XRX1D12102**
Lead-free X-ray protective Gloves Max Size 7.5	cp	**XRX1D12103**
Lead-free X-ray protective Gloves Max Size 8	cp	**XRX1D12104**
Lead-free X-ray protective Gloves Max Size 8.5	cp	**XRX1D12105**
Lead-free X-ray protective Gloves Max Size 9	cp	**XRX1D12106**

THIN MODEL

Protection level and thickness

.025	0,25
mmPb Eq. @ 60kV	mm ca - at the fingertip

Attenuation level

REFERENCE VOLTAGE **(IEC 61331-1:2014)**	REDUCTION ON THE SKIN
60 kV	51%
80 kV	41%
100 kV	35%
130 kV	30%

DESCRIPTION	UM	CODE
Lead-free X-ray protective Gloves Thin Size 6	cp	**XRX1D12110**
Lead-free X-ray protective Gloves Thin Size 6.5	cp	**XRX1D12111**
Lead-free X-ray protective Gloves Thin Size 7	cp	**XRX1D12112**
Lead-free X-ray protective Gloves Thin Size 7.5	cp	**XRX1D12113**
Lead-free X-ray protective Gloves Thin Size 8	cp	**XRX1D12114**
Lead-free X-ray protective Gloves Thin Size 8.5	cp	**XRX1D12115**
Lead-free X-ray protective Gloves Thin Size 9	cp	**XRX1D12116**

ULTRA THIN MODEL

Protection level and thickness

.020	0,20
mmPb Eq. @ 60kV	mm ca - at the fingertip

Attenuation level

REFERENCE VOLTAGE **(IEC 61331-1:2014)**	REDUCTION ON THE SKIN
60 kV	46%
80 kV	38%
100 kV	32%
130 kV	27%

DESCRIPTION	UM	CODE
Lead-free X-ray protective Gloves Ultra Thin Size 6	cp	**XRX1D12120**
Lead-free X-ray protective Gloves Ultra Thin Size 6.5	cp	**XRX1D12121**
Lead-free X-ray protective Gloves Ultra Thin Size 7	cp	**XRX1D12122**
Lead-free X-ray protective Gloves Ultra Thin Size 7.5	cp	**XRX1D12123**
Lead-free X-ray protective Gloves Ultra Thin Size 8	cp	**XRX1D12124**
Lead-free X-ray protective Gloves Ultra Thin Size 8.5	cp	**XRX1D12125**
Lead-free X-ray protective Gloves Ultra Thin Size 9	cp	**XRX1D12126**

SIMAD X-RAY MEDICAL TECHNOLOGY

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X-Ray Protective Gloves universal size **Mittens**

- Protective mitten design and snug internal strap
- Allows wearers the mobility of using bare hands directly in beam field
- Ideal for technicians hand protection during intervention cardiology procedures
- Made of soft & pliable material
- Non-sterile, protective, comfortable and usable

Protection levels

.25 mmPb Eq.	.35 mmPb Eq.	.50 mmPb Eq.

Available size

universal

X-ray protective materials

LEADLITE® | **ULTRALITE®** | **ZEROLEAD®**

DESCRIPTION	UM	CODE
X-Ray Protective Gloves model Mittens 0.25 Leadlite	cp	**X1633100**
X-Ray Protective Gloves model Mittens 0.35 Leadlite	cp	**X1633200**
X-Ray Protective Gloves model Mittens 0.50 Leadlite	cp	**X1633300**
X-Ray Protective Glovesx model Mittens 0.25 Ultralite	cp	**X1631100**
X-Ray Protective Gloves model Mittens 0.35 Ultralite	cp	**X1631200**
X-Ray Protective Gloves model Mittens 0.50 Ultralite	cp	**X1631300**
X-Ray Protective Gloves model Mittens 0.25 Zerolead	cp	**X1632100**
X-Ray Protective Gloves model Mittens 0.35 Zerolead	cp	**X1632200**
X-Ray Protective Gloves model Mittens 0.50 Zerolead	cp	**X1632300**



X-Ray Protective Gloves with leather cover **Duo**

- Dual-layered gloves
- Seamless external covering and internal lining
- Dismantleable and cleaneable
- Ideal for proper positioning in Pediatric X-Ray
- Made of soft & pliable material
- Non-sterile, protective, comfortable and usable

Protection levels

.50 mmPb Eq.

Available size

universal

X-ray protective materials

LEADLITE®

DESCRIZIONE	UM	CODICE
X-Ray Protective Gloves model Duo 0.5 Leadlite	cp	**X1623300**

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X ray radiation protection eyewear

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SIMAD
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Wrap-around


RG-206


RG-1388


RG-208


RG-MX30


RG-506


RG-1171


RG-F10


RG-52


RG-66

Stainless steel


RG-100

Face masks


Panoramica


Intera

Fitover


RG-33


RG-38

LENS OPTIONS

Lens type

ST	Standard lens
BI	Bifocal vision
PR	Progressive vision
SV	Single vision

Lens coating

AR	Anti-Reflective Coating
FF	Anti-Fog Coating

Tag OPTION

Management and identification through the iRadProMaP® software.

With the tag option, the X-ray protective goggles enter the iRadProMaP® program for the computerized management of X-ray protective equipment.

The RFiD iRadProMaP® tag is applied to the eyewear without compromising its functional and protective characteristics, and evolves it into an identifiable and manageable Personal Protective Equipment in a simple and reliable manner.



iRadProMaP®
Ionizing Radiation Protection Management Program

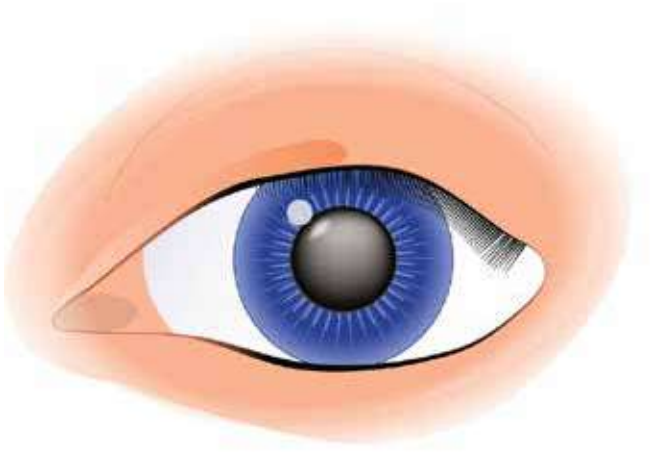
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SIMAD X-RAY MEDICAL TECHNOLOGY

EYE'S LENS DOSE LIMITS



As the understanding of the mechanisms of the biological effects of radiation has progressed in recent years, the dose limit to the lens has increasingly become a central topic in the radiation protection field; especially in healthcare activities where the staff using fluoroscopic equipment may be particularly close to the patient or to the source of ionizing radiation.

Radiation-induced cataracts

Irradiation can lead to opacification of the eye's lens (CATARACT), with increasing severity in proportion to the dose.

The opacities of the lens induced by ionizing radiation represent a typical late deterministic effect (the latency is generally some years for low doses).

Cristallino sano



Cristallino opacizzato

To **prevent radio-induced cataracts**, already in 2012 the **International Commission on Radiological Protection** (ICRP) recommended, following new studies,

a **reduction of the dose limit equivalent** to the lens for occupational exposure **from 150 mSv / year** to **20 mSv / year** [1].

150 mSv/year

20 mSv/year

[1] International Commission on Radiological Protection (ICRP). Statement 21/04/2011 (ICRP ref. 4825-3093-1464)

SIMAD X-RAY MEDICAL TECHNOLOGY

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Protection





RFID tag for management and identification through the iRadProMap software.

iRadProMaP by SIMAD srl

Wrap-around Radiation Glasses RG-206

- Wraparound frame built in ultra-resistant TR-90 Nylon
- Rubberized soft grip temple bars

- Lens width: 50 mm
- Bridge: 19 mm
- Temple: 117 mm
- Weight: 75g
- CE 0598 Certificate





RG-206
Black/Yellow

		OPTIONS AR	FF
ST	XRRG206YB50SS	✓	✓
BI	XRRG206YBFT2850SS	-	-
PR	XRRG206YBPROG50SS	✓	-
SV	XRRG206YBSV50SS	✓	-

Tag OPTION		OPTIONS AR	FF
ST	XTRG206YB50SS	✓	✓
BI	XTRG206YBFT2850SS	-	-
PR	XTRG206YBPROG50SS	✓	-
SV	XTRG206YBSV50SS	✓	-



RG-206
Brown/Orange

		OPTIONS AR	FF
ST	XRRG206OB50SS	✓	✓
BI	XRRG206OBFT2850SS	-	-
PR	XRRG206OBPROG50SS	✓	-
SV	XRRG206OBSV50SS	✓	-

Tag OPTION		OPTIONS AR	FF
ST	XTRG206OB50SS	✓	✓
BI	XTRG206OBFT2850SS	-	-
PR	XTRG206OBPROG50SS	✓	-
SV	XTRG206OBSV50SS	✓	-



RG-206
Black/Yellow/Silver

		OPTIONS AR	FF
ST	XRRG206YBS50SS	✓	✓
BI	XRRG206YBSFT2850SS	-	-
PR	XRRG206YBSPROG50SS	✓	-
SV	XRRG206YBSSV50SS	✓	-

Tag OPTION		OPTIONS AR	FF
ST	XTRG206YBS50SS	✓	✓
BI	XTRG206YBSFT2850SS	-	-
PR	XTRG206YBSPROG50SS	✓	-
SV	XTRG206YBSSV50SS	✓	-

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SIMAD X-RAY MEDICAL TECHNOLOGY

Protection





RFID tag for management and identification through the iRadProMap software.

Wrap-around Radiation Glasses **RG-1388**

- Wraparound frame built in ultra-resistant TR-90 Nylon
- Ideal for Medium and Large style heads
- Rubberized soft grip temple bars and nose pads

- Lens width: 60 mm
- Bridge: 15 mm
- Temple: 130 mm
- Weight: 75g



RG-1388 **Silver**

		OPTIONS AR	FF
ST	**XRRG1388S50SS**	✓	✓
SV	**XRRG1388SSV50SS**	✓	-

Tag OPTION

		OPTIONS AR	FF
ST	**XTRG1388S50SS**	✓	✓
SV	**XTRG1388SSV50SS**	✓	-

Protection



0.75
mm Pb Eq.

Wrap-around Radiation Glasses **RG-208**

- Wraparound frame built in ultra-resistant TR-90 Nylon
- Ideal for Medium and Large style heads
- Rubberized temple bars
- Lens width: 59 mm
- Bridge: 20 mm
- Temple: 130 mm
- Weight: 72g
- CE 0598 Certificate



RG-208 **Black**

		OPTIONS AR	FF
ST	**XRRG208BK**	✓	✓
BI	**XRRG208BKFT28**	-	-
PR	**XRRG208BKPROG**	✓	-
SV	**XRRG208BKSV**	✓	-



RG-208 **Silver**

		OPTIONS AR	FF
ST	**XRRG208S**	✓	✓
BI	**XRRG208SFT28**	-	-
PR	**XRRG208SPROG**	✓	-
SV	**XRRG208SSV**	✓	-



RG-208 **Taupe**

		OPTIONS AR	FF
ST	**XRRG208TA**	✓	✓
BI	**XRRG208TAFT28**	-	-
PR	**XRRG208TAPROG**	✓	-
SV	**XRRG208TASV**	✓	-



RG-208 **Red**

		OPTIONS AR	FF
ST	**XRRG208R**	✓	✓
BI	**XRRG208RFT28**	-	-
PR	**XRRG208RPROG**	✓	-
SV	**XRRG208RSV**	✓	-



RG-208 **Pink**

		OPTIONS AR	FF
ST	**XRRG208PK**	✓	✓
BI	**XRRG208PKFT28**	-	-
PR	**XRRG208PKPROG**	✓	-
SV	**XRRG208PKSV**	✓	-



RG-208 **Purple/Grey**

		OPTIONS AR	FF
ST	**XRRG208PG**	✓	✓
BI	**XRRG208PGFT28**	-	-
PR	**XRRG208PGPROG**	✓	-
SV	**XRRG208PGSV**	✓	-



RG-208 **Blue/Yellow**

		OPTIONS AR	FF
ST	**XRRG208BY**	✓	✓
BI	**XRRG208BYFT28**	-	-
PR	**XRRG208BYPROG**	✓	-
SV	**XRRG208BYSV**	✓	-

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SIMAD X-RAY MEDICAL TECHNOLOGY

Protection



0.75
mm Pb Eq.

Wrap-around Radiation Glasses RG-MX30



- Wraparound frame built in ultra-resistant TR-90 Nylon
- Ideal for Medium style heads
- Rubberized soft grip temple bars and rubberized saddle bridge nose pad

- Lens width: 53 mm
- Bridge: 17 mm
- Temple: 130 mm
- Weight: 73.9 g

RG-MX30 **Black**

		OPTIONS AR	OPTIONS FF
ST	**XRRGMX30BK**	✓	✓
BI	**XRRGMX30BKFT28**	-	-
PR	**XRRGMX30BKPROG**	✓	-
SV	**XRRGMX30BKSV**	✓	-

RG-MX30 **Black Large**

		OPTIONS AR	OPTIONS FF
ST	**XRRGMX30LBK**	✓	✓
BI	**XRRGMX30LBKFT28**	-	-
PR	**XRRGMX30LBKPROG**	✓	-
SV	**XRRGMX30LBKSV**	✓	-



RG-MX30 **Red**

		OPTIONS AR	OPTIONS FF
ST	**XRRGMX30R**	✓	✓
BI	**XRRGMX30RFT28**	-	-
PR	**XRRGMX30RPROG**	✓	-
SV	**XRRGMX30RSV**	✓	-



RG-MX30 **Blue**

		OPTIONS AR	OPTIONS FF
ST	**XRRGMX30BL**	✓	✓
BI	**XRRGMX30BLFT28**	-	-
PR	**XRRGMX30BLPROG**	✓	-
SV	**XRRGMX30BLSV**	✓	-



RG-MX30 **Silver**

		OPTIONS AR	OPTIONS FF
ST	**XRRGMX30S**	✓	✓
BI	**XRRGMX30SFT28**	-	-
PR	**XRRGMX30SPROG**	✓	-
SV	**XRRGMX30SSV**	✓	-

RG-MX30 **Red Large**

		OPTIONS AR	OPTIONS FF
ST	**XRRGMX30LR**	✓	✓
BI	**XRRGMX30LRFT28**	-	-
PR	**XRRGMX30LRPROG**	✓	-
SV	**XRRGMX30LRSV**	✓	-

RG-MX30 **Blue Large**

		OPTIONS AR	OPTIONS FF
ST	**XRRGMX30LBL**	✓	✓
BI	**XRRGMX30LBLFT28**	-	-
PR	**XRRGMX30LBLPROG**	✓	-
SV	**XRRGMX30LBLSV**	✓	-

RG-MX30 **Silver Large**

		OPTIONS AR	OPTIONS FF
ST	**XRRGMX30LS**	✓	✓
BI	**XRRGMX30LSFT28**	-	-
PR	**XRRGMX30LSPROG**	✓	-
SV	**XRRGMX30LSSV**	✓	-

Protection



0.75
mm Pb Eq.

Wrap-around Radiation Glasses **RG-506**

- Wraparound frame built in ultra-resistant TR-90 Nylon
- Ideal for Medium style heads
- Rubberized soft grip temple bars and nose pads

- Lens width: 60 mm
- Bridge: 19 mm
- Temple: 125 mm
- Weight: 69g



RG-506 **Tortoise**

		OPTIONS AR	FF
ST	**XRRG506T**	✓	✓
BI	**XRRG506FT28T**	-	-
PR	**XRRG506PROGT**	✓	-
SV	**XRRG506SVT**	✓	-



RG-506 **Black**

		OPTIONS AR	FF
ST	**XRRG506BK**	✓	✓
BI	**XRRG506FT28BK**	-	-
PR	**XRRG506PROGBK**	✓	-
SV	**XRRG506SVBK**	✓	-

Wrap-around Radiation Glasses **RG-1171**

- Wraparound frame built in ultra-resistant TR-90 Nylon
- Ideal for Small to Medium style heads
- Rubberized temple bars and nose pads
- Removable foam insert and side ventilation ports

- Lens width: 58 mm
- Bridge: 15 mm
- Temple: 125 mm
- Weight: 69g



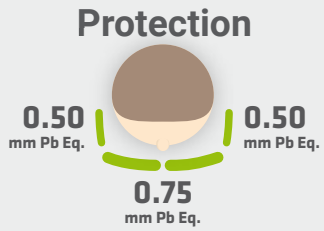
RG-1171 **Red**

		OPTIONS AR	FF
ST	**XRRG1171R**	✓	✓



RG-1171 **Black**

		OPTIONS AR	FF
ST	**XRRG1171BK**	✓	✓



Wrap-around Radiation Glasses **RG-F10**

- Ultra resistant wraparound frame
- Perforated brow guard, perforated silico nose guard and rubberized temple bar

- Lens width: 55 mm
- Bridge: 19 mm
- Temple: 125 mm
- Weight: 93 g





RG-F10 **Black/Blue**

		OPTIONS AR	OPTIONS FF
ST	**XRRGF10BB50SS**	✓	✓
BI	**XRRGF10BBFT2850SS**	-	-
PR	**XRRGF10BBPROG50SS**	✓	-
SV	**XRRGF10BBSV50SS**	✓	-



RG-F10 **Black/Yellow**

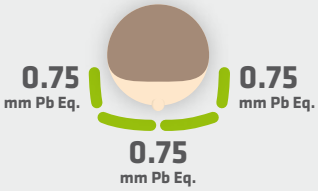
		OPTIONS AR	OPTIONS FF
ST	**XRRGF10BY50SS**	✓	✓
BI	**XRRGF10BYFT2850SS**	-	-
PR	**XRRGF10BYPROG50SS**	✓	-
SV	**XRRGF10BYSV50SS**	✓	-



RG-F10 **Clear**

		OPTIONS AR	OPTIONS FF
ST	**XRRGF10CLR50SS**	✓	✓
BI	**XRRGF10CLRFT2850SS**	-	-
PR	**XRRGF10CLRPROG50SS**	✓	-
SV	**XRRGF10CLRSV50SS**	✓	-

Protection



Wrap-around Radiation Glasses **RG-52**

- Large viewing area and side shields
- Ideal for Medium and Large style heads
- Flexible temples and acetate frame
- Silicone no-slip, unifit bridge with adjustable nose pads

- Lens width: 53 mm
- Bridge: 15 mm
- Temple: 120 mm
- Weight: 90g
- CE 0598 Certificate









RG-52 **Tortoise**

		OPTIONS AR	OPTIONS FF
ST	**XRRG52T75SS**	✓	✓
BI	**XRRG52TFT2875SS**	-	-
PR	**XRRG52TPROG75SS**	✓	-
SV	**XRRG52TSV75SS**	✓	-

RG-208 **Blue/Black**

		OPTIONS AR	OPTIONS FF
ST	**XRRG52BB75SS**	✓	✓
BI	**XRRG52BBFT2875SS**	-	-
PR	**XRRG52BBPROG75SS**	✓	-
SV	**XRRG52BBSV75SS**	✓	-

RG-208 **Black**

		OPTIONS AR	OPTIONS FF
ST	**XRRG52BK75SS**	✓	✓
BI	**XRRG52BKFT2875SS**	-	-
PR	**XRRG52BKPROG75SS**	✓	-
SV	**XRRG52BKSV75SS**	✓	-

Protection



Stainless steel Radiation Glasses **RG-100**

- Durable non-corrosive stainless steel frame
- Ideal best for Medium to Large style heads
- Adjustable nose pads, spring hinges and side shields

- Lens width: 52 mm / 55 mm
- Bridge: 19 mm
- Temple: 140 mm
- Weight: mod 52 - 71,8g / mod 55 - 76,2g
- CE 0598 Certificate





RG-100 **W 52 Black**

		OPTIONS AR	FF
ST	**XRRG10052BK50SS**	✓	✓
BI	**XRRG10052BKFT2850SS**	-	-
PR	**XRRG10052BKPROG50SS**	✓	-
SV	**XRRG10052BKSV50SS**	✓	-

RG-100 **W 52 Brown**

		OPTIONS AR	FF
ST	**XRRG10052BN50SS**	✓	✓
BI	**XRRG10052BNFT2850SS**	-	-
PR	**XRRG10052BNPROG50SS**	✓	-
SV	**XRRG10052BNSV50SS**	✓	-

RG-100 **W 55 Black**

		OPTIONS AR	FF
ST	**XRRG10055BK50SS**	✓	✓
BI	**XRRG10055BKFT2850SS**	-	-
PR	**XRRG10055BKPROG50SS**	✓	-
SV	**XRRG10055BKSV50SS**	✓	-

RG-100 **W 55 Brown**

		OPTIONS AR	FF
ST	**XRRG10055BN50SS**	✓	✓
BI	**XRRG10055BNFT2850SS**	-	-
PR	**XRRG10055BNPROG50SS**	✓	-
SV	**XRRG10055BNSV50SS**	✓	-

Protection





RFID tag for management and identification through the iRadProMap software.

Fitover Radiation Glasses **RG-33**

- Will fit over almost any style of glasses and head sizes with comfort.
- Frame built in ultra-resistant TR-90 Nylon

- Lens width: 60 mm
- Bridge: 16 mm
- Temple: 127 mm
- Weight: 90g
- CE 0598 Certificate



RG-33 **Tortoise**

		OPTIONS AR	OPTIONS FF
ST	**XRRG33T50SS**	✓	✓

Tag OPTION

		OPTIONS AR	OPTIONS FF
ST	**XTRG33T50SS**	✓	✓



RG-33 **Black**

		OPTIONS AR	OPTIONS FF
ST	**XRRG33BK50SS**	✓	✓

Tag OPTION

		OPTIONS AR	OPTIONS FF
ST	**XTRG33BK50SS**	✓	✓



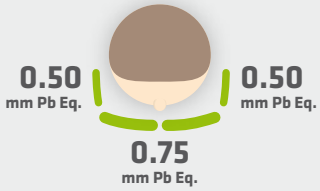
RG-33 **White**

		OPTIONS AR	OPTIONS FF
ST	**XRRG33W50SS**	✓	✓

Tag OPTION

		OPTIONS AR	OPTIONS FF
ST	**XTRG33W50SS**	✓	✓

Protection





RFID tag for management and identification through the iRadProMap software.

iRadProMaP by SIMAD srl

Radiation Glasses **RG-66**

- Fully adjustable temple bars
- Lens width: 58 mm
- Bridge: 19 mm
- Temple: 105-120 mm
- Weight: 110,1 g
- CE 0598 Certificate



RG-66 **Silver**

		OPTIONS AR	OPTIONS FF
ST	**XRRG66S**	✓	✓

Tag OPTION

		OPTIONS AR	OPTIONS FF
ST	**XTRG66S**	✓	✓



RG-66 **Black**

		OPTIONS AR	OPTIONS FF
ST	**XRRG66BK**	✓	✓

Tag OPTION

		OPTIONS AR	OPTIONS FF
ST	**XTRG66BK**	✓	✓

Fitover Radiation Glasses **RG-38**

- Will fit over almost any style of glasses and head sizes
- Frame built in ultra-resistant TR-90 Nylon
- Lens width: 65 mm
- Bridge: 20 mm
- Temple: 125 mm
- Weight: 114 g
- CE 0598 Certificate



RG-38 **Black**

		OPTIONS AR	OPTIONS FF
ST	**XRRG38BK50SS**	✓	✓

Tag OPTION

		OPTIONS AR	OPTIONS FF
ST	**XTRG38BK50SS**	✓	✓



RG-38 **Tortoise**

		OPTIONS AR	OPTIONS FF
ST	**XRRG38T50SS**	✓	✓

Tag OPTION

		OPTIONS AR	OPTIONS FF
ST	**XTRG38T50SS**	✓	✓

Radiation Face masks **a different and effective choice**





More effective than glasses [1]

The particular geometry of the visors guarantees a **higher dose reduction factor (DRF)** than conventional x-ray goggles, despite the fact that they have a level of protection equivalent to the lower Pb of goggles.[1]

Greater protection from external agents

By completely shielding the face, the visors offer great protection from possible biological contamination caused by splashes and droplets.

Lightness and comfort

Thanks to the evolution of the materials used and the increasingly ergonomic design, the user experience reaches unexpected levels of practicality.

Excellent solution if you have your own eyeglasses

For those who do not want to give up the comfort of their eyeglasses and do not like to use X-ray protective fitover glasses, face masks offer the optimal compromise.

[1] **Addressing the efficiency of X-ray protective eyewear: Proposal for the introduction of a new comprehensive parameter, the Eye Protection Effectiveness (EPE)**
S. Doriaa,b, L. Fedelic, L. Redapia, S. Piffera, F. Rossid, A. Falivened, S. Busonid, G. Bellid, C. Gorie,f, A. Taddeucci
https://doi.org/10.1016/j.ejmp.2020.01.028 | Physica Medica 70 (2020) 216–223

Protection



0.1
mm Pb Eq.

Radiation
Face masks

- Protection: 0.12 mm Pb Eq
- Leaded acrylic protective shielding

This x-ray protective panoramic mask eliminates blind spots caused by standard glasses and gives you a huge area of protection from radiation. Great for people who wear glasses or who want to protect more than just their eyes



RFID tag for management and identification through the iRadProMap software.

iRadProMaP by SIMAD srl



Radiation Face Mask, **Full Face Style**

ST **XRRGFMFULL**

Tag OPTION

ST **XTRGFMFULL**

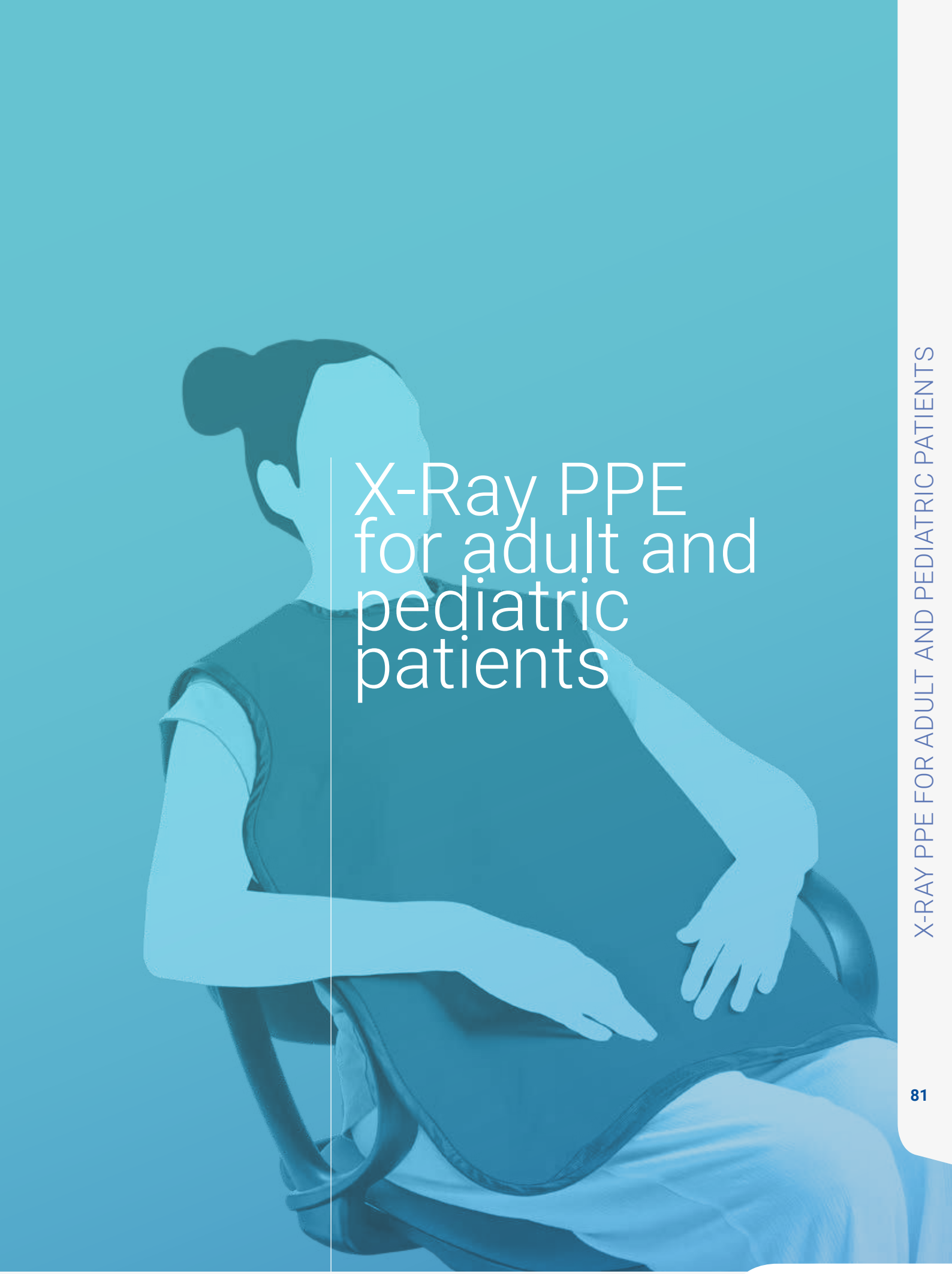


Radiation Face Mask, **Panoramic Style**

ST **XRRGFMPAN**

Tag OPTION

ST **XTRGFMPAN**



X-Ray PPE for adult and pediatric patients

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SIMAD
X-RAY MEDICAL TECHNOLOGY

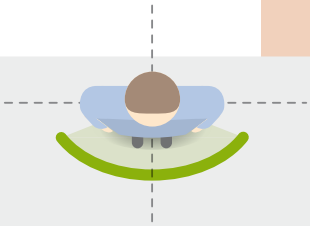
Apron for endoral X-Ray examination

- Designed for front protection while being X-Rayed on a dentist's chair
- The apron drapes comfortably over patient, covering sensitive areas from exposure to scatter radiation during radiography
- Easy washable water-repellent material
- Both adult & child sizes are available



Protection

Front



Protection levels

.35	.50
mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE® | **ULTRALITE®** | **ZEROLEAD®**

Available sizes

ADULT	PEDIATRIC

UNIQUE FEATURES ON REQUEST

iRadProMaP RFID Tag

For management and identification through the **iRadProMap® software**

iRadProMaP by SIMAD srl

iRad Washing & Drying Technology

For internal and external washing and complete sanitization **(European Patent No. 2987170)**

iRad WASHING & DRYING PPE TECHNOLOGY Patent No. 2987170

Customization options

Different colors and coatings (Solid Colors ONLY)
See page XX



Embroidered lettering:
- Stitched on the PPE
- On removable velcro strip



Embroidered logo



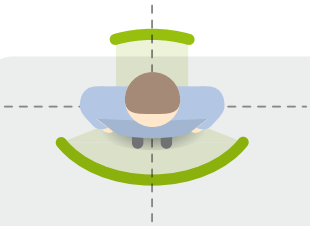
SIMAD X-RAY MEDICAL TECHNOLOGY
SIMAD Radioprotection / tel 051 6860811 / fax 051 6861246 / info@simad.net / www.simad.net





Apron for panoramic X-Ray examination

- Designed for front protection: a single front panel for chest and shoulder protection and a rear panel for spine protection
- Easy washable water-repellent material
- Both adult & child sizes are available
- Available with Velcro / Magnetic Lock



Protection

Front and spine

Protection levels

.35	.50
mmPb Eq.	mmPb Eq.

X-ray protective materials

LEADLITE® | **ULTRALITE®** | **ZEROLEAD®**

Available sizes

ADULT	PEDIATRIC

UNIQUE FEATURES ON REQUEST

iRadProMaP RFID Tag

For management and identification through the **iRadProMap® software**

iRad Washing & Drying Technology

For internal and external washing and complete sanitization **(European Patent No. 2987170)**

Customization options

Different colors and coatings (Solid Colors ONLY)
See page XX



Embroidered lettering:
- Stitched on the PPE
- On removable velcro strip



Embroidered logo









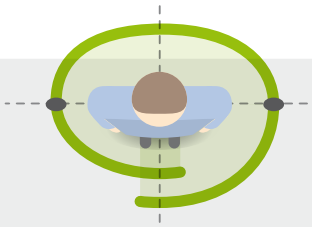


Double-sided Optima Apron Child

- Complete front protection
- Anti-skid shoulder pads to reduce stress & for equal weight distribution
- Easy washable water-repellent material
- Velcro closure for a enhanced fit
- Three sizes available from 3 to 12 years old

Protection

From front to back with stitching on the right and left side.
Sternal overlap.



Protection levels

.35	.50	.1
mmPb Eq.	mmPb Eq.	mmPb Eq.

Available sizes

3 / 5	6 / 8	9 / 12
yo	yo	yo

X-ray protective materials

LEADLITE® | ULTRALITE® | ZEROLEAD®

Customization options

- **iRadProMaP RFID Tag** for management and identification through the iRadProMap® software
- **iRad Washing & Drying Technology** for complete washing and sanitization
- Custom additional option of **embroidered logo**







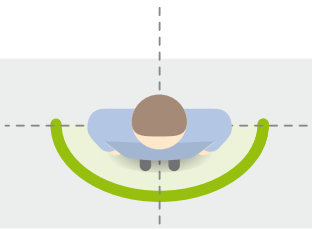


Coat Apron Child

- Complete front protection
- Anti-skid shoulder pads to reduce stress & for equal weight distribution
- Easy washable water-repellent material
- Velcro closure for a enhanced fit
- Three sizes available from 3 to 12 years old

Protection

Front, from left to right



Protection levels

.35	.50	.1
mmPb Eq.	mmPb Eq.	mmPb Eq.

Available sizes

3 / 5	6 / 8	9 / 12
yo	yo	yo

X-ray protective materials

LEADLITE® | ULTRALITE® | ZEROLEAD®

Customization options

- **iRadProMaP RFID Tag** for management and identification through the iRadProMap® software
- **iRad Washing & Drying Technology** for complete washing and sanitization
- Custom additional option of **embroidered logo**







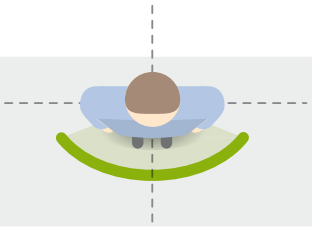


Pelvis Protection Patient Apron

- Apron for patients protection from direct / scattered radiation while getting examined under X-Ray table
- Universal use as gonad and ovarian shields
- Complete lower body protection
- Designed to provide comfort and adequate protection
- Adjustable back strap for snug fit
- Different sizes and colors available (Solid colors ONLY)

Protection

Front



Protection levels

.35	.50	.1
mmPb Eq.	mmPb Eq.	mmPb Eq.

Available sizes

25 x 25	30 x 30	40 x 40	50 x 50	60 x 60
cm	cm	cm	cm	cm

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Customization options

- **iRadProMaP RFID Tag** for management and identification through the iRadProMap® software
- **iRad Washing & Drying Technology** for complete washing and sanitization
- Custom additional option of **embroidered logo**



X-Ray Protective Blanket Patient Shield

- Protective blankets for X-Ray shielding patients and equipments
- Easy washable water-repellent material
- Different sizes and colors available (Solid colors ONLY)

Protection levels

.35	.50	.1
mmPb Eq.	mmPb Eq.	mmPb Eq.

Available sizes

25 x 25	30 x 30	40 x 40	50 x 50	60 x 60
cm	cm	cm	cm	cm

X-ray protective materials

LEADLITE®	ULTRALITE®	ZEROLEAD®

Customization options

- **iRadProMaP RFID Tag** for management and identification through the iRadProMap® software
- **iRad Washing & Drying Technology** for complete washing and sanitization
- Custom additional option of **embroidered logo**

Single protection



Adult & Pediatric Sets with single belt



Available colour

ROYAL BLUE

Ovarian reproductive organ protections

- Ideal to protect the female reproductive organ
- Design for ease of wearing & removal with adjustable Velcro Panel
- Available in one-size-fits-all & child size

Protection level

1
mmPb Eq.

X-ray protective materials

LEADLITE® | ULTRALITE® | ZEROLEAD®

Available sizes

ADULT	PEDIATRIC	ADULT SET	PERDIATRIC SET
		3 pieces	4 pieces

Single protection



Adult & Pediatric Sets with single belt



Available colour

ROYAL BLUE

Gonad reproductive organ protections

- Ideal to protect the male reproductive organ
- Design for ease of wearing & removal with adjustable Velcro Panel
- Available in one-size-fits-all & child size

Protection level

1
mmPb Eq.

X-ray protective materials

LEADLITE® | ULTRALITE® | ZEROLEAD®

Available sizes

ADULT	PEDIATRIC	ADULT SET	PERDIATRIC SET
		3 pieces	3 pieces



Collective protection equipment (CPE)

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X-RAY MEDICAL TECHNOLOGY

KermaLite

Radiation Protection System for Patient and Operators for Interventional Radiology

SIMAD
Medical Engineering



SIMAD
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KermaLite-T perimetric x-ray protection screen for radiological table

- Scattered radiation protection screen
- Easily washable water-repellent material external coating
- Fixing on support arm with velcro closure
- Protection level: 0,5 mmPb eq.
- Dimensions: 70 x 60 cm
- Shield section: 62 x 70 cm
- Panels dimension (W x L): 10 x 62 cm
- Overlapping panels section: 1 cm
- Weight: 3,5 kg
- Outer fabric colour: Blue

UNIQUE FEATURES ON REQUEST

- iRadProMaP RFID Tag for management and identification through the iRadProMap® software

DESCRIPTION	UM	CODE
KermaLite-T 0,5 mmPb perimetric x-ray protective screen (fixing support arm excluded)	pz	**XRD01415A1**
Fixing support arm for Kerma-Lite T clamp included	pz	**XRF01382Z1**







KermaLite-P X-ray protection screen for patient thyroid and eye lens

- Scattered radiation protection screen
- Easily washable water-repellent material external coating
- Fixing on support arm with velcro closure
- Protection level: 0,5 mmPb eq.
- Dimensions: 48 x 60 cm
- Shield section: 60 x 40 cm
- Panels dimension (W x L): 10 x 40 cm
- Overlapping panels section: 1 cm
- Weight: 2,2 kg
- Outer fabric colour: Blue

UNIQUE FEATURES ON REQUEST

- iRadProMaP RFID Tag for management and identification through the iRadProMap® software

DESCRIPTION	UM	CODE
KermaLite-P 0,5 mmPb protective screen for patient thyroid and eye lens (fixing support arm excluded)	pz	**XRD01421A1**
Fixing support arm for Kerma-Lite P clamp included	pz	**XRF01382Z2**









X-ray protection **lateral side shields** for operating tables

Basic lower body shield style. This versatile design fits any operating tables including those smaller & narrow sizes.

- Velcro closure system
- Protective section height 78 cm
- Outer fabric colour available in green and blue

DESCRIPTION	UM	CODE
Protezione RX laterale per tavolo - alt.78cm col. blu	pz	**XRBZZVE135N**

X-ray protection **front side shields** for operating tables

X-ray protection panel accessory for the end part of radiological and operating beds.

- Easy to fit between the Velcro straps of the side panels.
- Protective section height 78 cm
- Outer fabric colour available in green and blue

DESCRIPTION	UM	CODE
Terminale protezione RX per tavolo - alt.78cm col. blu	pz	**XRBZZVE136N**

Fixed height X-ray barrier **192x80cm**

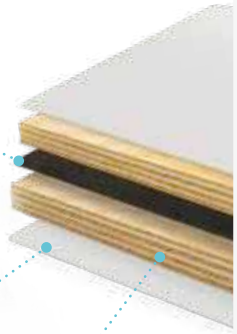


RFID tag for management and identification through the iRadProMap software.



Lead glass viewing window **2,1 mm Pb eq.**

Internal x-ray shield **2 mm Pb.**



Solid and stable structure in white painted steel.

Twin swiveling rubber wheels, two with brakes. Antistatic option on request.

External coating in flame-retardant plastic laminate, easy to clean and disinfect. Optional colors:

Fire-retardant chipboard panel

Available models

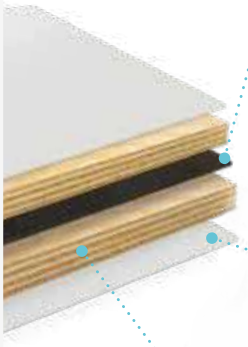


Without window	Window 30x40 cm	Window 30x40 cm and side doors	Window 24x30 cm	Window 24x30 cm and side doors	Screen 80x60 cm
SM2B00	**SM2B43**	**SM2B431**	**SM2B32**	**SM2B321**	**SM2B86**

Fixed height X-ray barrier **150x120cm**

Internal x-ray shield
1,2 mm Pb.

Lead glass viewing window
2,1 mm Pb eq.





External coating in flame-retardant plastic laminate, easy to clean and disinfect. Optional colors:

Fire-retardant chipboard panel

Twin swiveling rubber wheels, two with brakes. Antistatic option on request.

Solid and stable structure in white painted steel.



RFID tag for management and identification through the iRadProMap software.

iRadProMaP by SIMAD srl

Available models

Con visiva 24x30 cm

SM2B32L



Senza visiva

SM2B00L

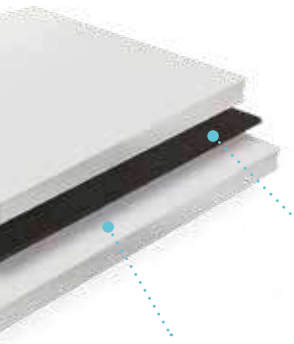


X-ray protection screen **with adjustable height**

SM2S79

70 x 90 cm **lead acrylic 0.5 mm Pb eq.** screen.

Easy height adjustable.



Internal x-ray shield **1mm Pb.**

Steel panel

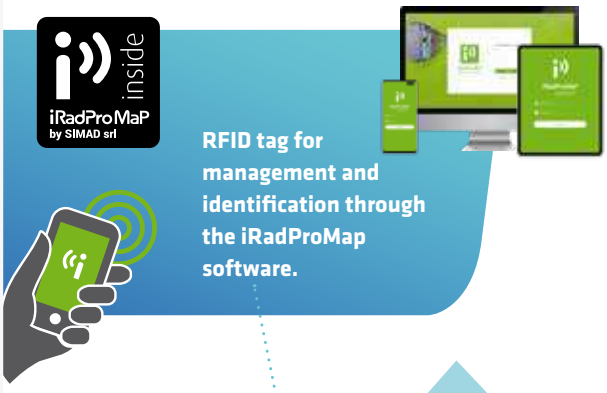
RFID tag for management and identification through the iRadProMap software.

Twin swiveling rubber wheels, two with brakes. Antistatic option on request.

Solid and stable structure in white painted steel complete with handles.
Optional Colors::

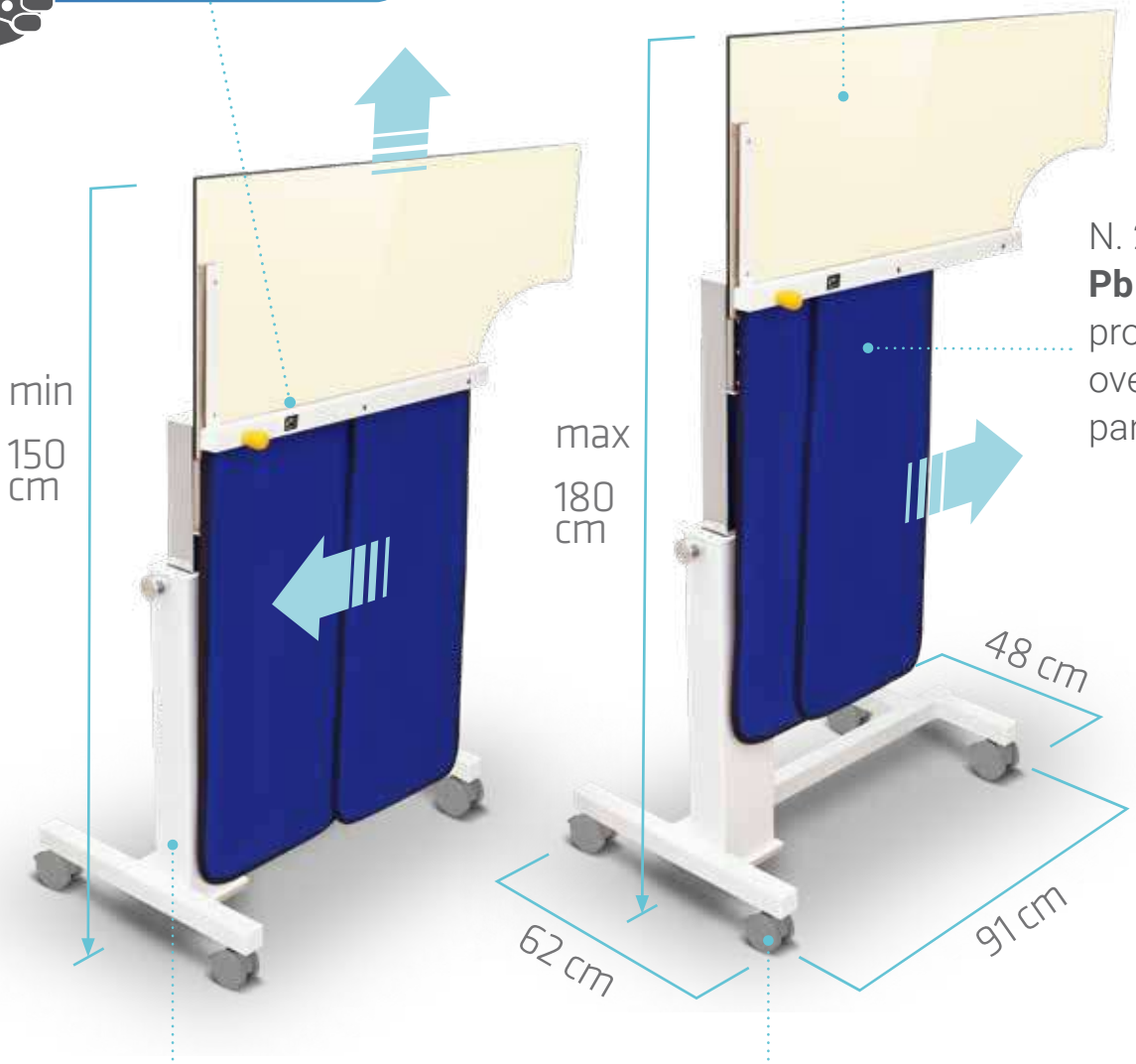
X-ray protection **shaped** screen **with adjustable height**

SM2S51



116 x 50 cm **lead acrylic 0.5 mm Pb eq.** shaped screen.

Easy height adjustable.



N. 2 **0.5 mm Pb eq.** X-ray protection overlapping panels

Supporting structure in white painted and chromed steel.

Twin swiveling rubber wheels, two with brakes. Antistatic option on request.



X-ray protection Storage

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Mobile Multi-Hanger rack

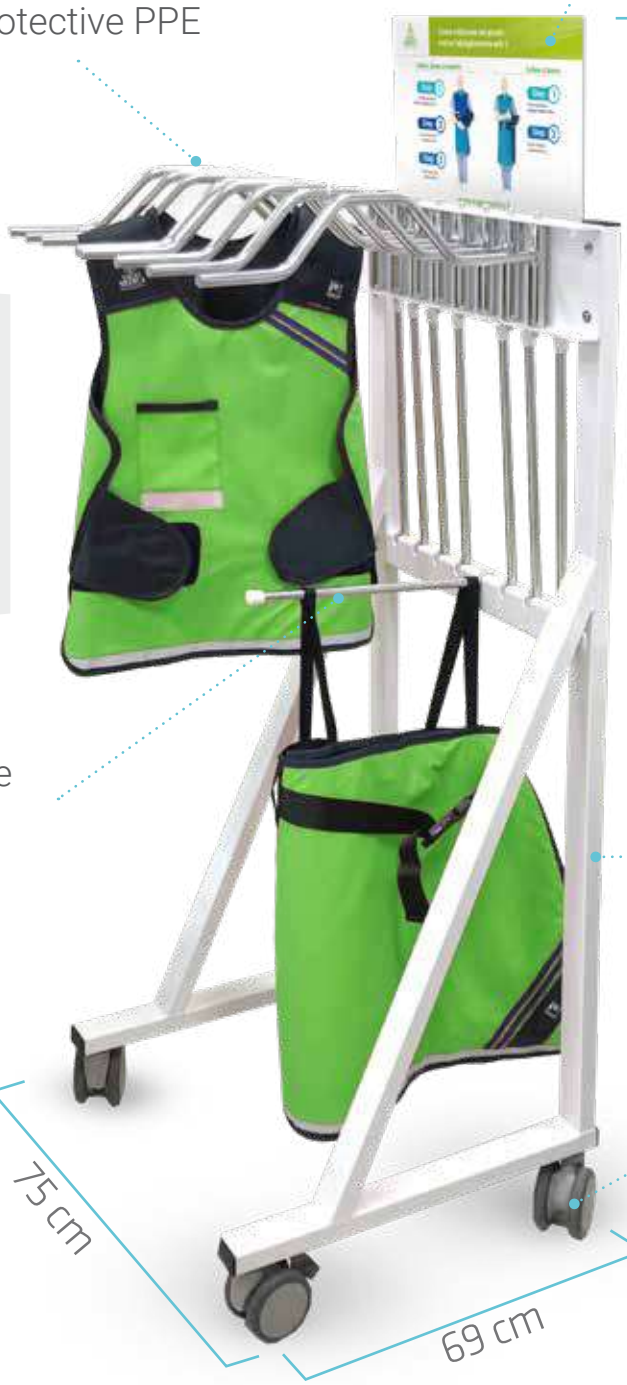
XRES4310NOBZ

Supplied in a kit to be assembled



Panel showing how PPE should be worn correctly. **Customizable with company logos**

n.10 Shaped and adjustable hangers for a correct suspension of the X-ray protective PPE



Customizable with a different number of hangers and in wall version.



RFID tag for management and identification through the iRadProMap software.

iRadProMaP by SIMAD srl inside

n.10 foldable supports for skirt and accessories

Solid and stable structure in white painted steel.

Twin swiveling rubber wheels, two with brakes.

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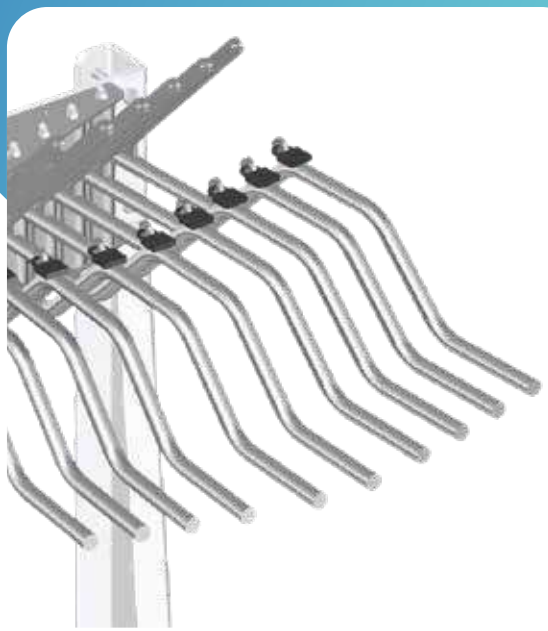


Wall mounted rack with hangers

- Equipped with hooks for hanging skirts
- Possibility of configuration with 2 - 4 - 6 hangers
- Molded hanger design to enable a correct storage positioning
- Wall fixing with plugs included
- Support for interchangeable information panels on radiation protection best practice

DESCRIPTION	UM	CODE
Wall mounted rack with hangers	set	**XRES4201**
Wall mounted rack with lock closure hangers	set	**XRES4202**

Available lock secure hangers closure version as to secure safe storage conditions





Mobile support without hangers

Solid tubular stainless steel structure

- Handy storage fits
- 4 pivoting wheels on castors – 2 of those with braking system
- Hanging storage capacity: up to 12 aprons
- Apron hangers not included.

DESCRIPTION	UM	CODE
Mobile support without hangers	pz	**XRES4220**



Wall mounted support without hangers

- Made of tubular aluminium material
- Wall plugs and screws to fasten the wall mounted hanger support are supplied with the product

DESCRIPTION	UM	CODE
Wall mounted support without hangers 80cm	pz	**XRES4221**
Wall mounted support without hangers 60cm	pz	**XRES4221/1**
Wall mounted support without hangers 40 cm,	pz	**XRES4221/2**

X-ray PPE Apron **hangers**

- Strong metal apron hangers

DESCRIPTION	UM	CODE
Apron hangers	pc	**XR00105010157**





Management and traceability software for X-ray protection PPE and CPE

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SIMAD
X-RAY MEDICAL TECHNOLOGY

iRadProMaP®

Software for the traceability, identification and computerized management of X-ray protective PPE



EFFECTIVE
It increases safety and guarantees the management of devices for personal protection against X-rays

The iRadPro MaP® software designed by Sago Medica is able to dynamically manage the inventory of PPE – keeping the traceability, the state of integrity and the frequency of washing and disinfection of each individual device constantly updated.

iradpromap.it



SIMPLE
Remote access from any computer or mobile device

Extremely intuitive software developed to access it through the most popular web browsers without having to install anything.

The web-based nature of iRadPro MaP® allows you to rely on an always updated system.

SAFE
Complete management of registered users

Wide customization of privileges and authorizations for safe and controlled management of the access to the system.

iRadProMaP® software is covered by patent n. 1398323

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EFFICIENT
Improve services and optimize resources

- Manage electronic archives of all PPE.
- Provide for the reorganization of stocks in a simple and precise way.
- Reconstruct the history of each PPE (washing, state of wear, etc.).
- Documenting the annual economic need on a historical basis.

ADAPTABLE
Even the PPE already in possession of the structure can be managed

Thanks to the tagging kit it is possible to make any PPE manageable by the iRadProMaP® system.





SMART
Dedicated APP for management in complete mobility

With the App downloadable on any mobile device with NFC technology, tracking and managing every single PPE in your database becomes child's play.

android RFID

COMPLETE
All the functions for true PPE management

- Documented nominal assignment of each PPE.
- Traceability of each PPE.
- Life cycle history of each PPE.
- Computerized management of reordering and disposal of PPE.

Available modes

DESCRIZIONE	UM	CODICE
Access to the iRadPro Map software, **web based version**	pz	**XRIRADSOFTWARE2019**
Tagging Kit for PPE without iRad tag consisting of tags, tag holder and plastic fastening rivets	pz	**XRIRADTAGKIT**

Washing and sanitizing of X-ray protective PPE



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SIMAD
X-RAY MEDICAL TECHNOLOGY

Abstract reporting on the documented testing method study & results on the 16th Society of Radiographers National Conference held on 17th and 18th April 2015 in Riccione, Italy:

"**Personal Protective Equipment in Radiology**: Maintenance and Sanitization rules to follow"

MICROBIOLOGICAL MONITORING INVESTIGATION STUDY ON PHYSICAL SURFACES

BACTERIAL CONTAMINATION ANALYSIS ON X-RAY PROTECTION APRONS - HEMODYNAMICS & ELECTRO STIMULATION LAB

We carried out a microbiological monitoring testing method & study on the physical apron panels used at the Hemodynamics & Electro stimulation lab of Sant'Anna Hospital in Ferrara (Italy) in order to find out, check and test any populated bacterial communities & profiles as well as any showing up moulding areas using 2 different x-ray protection garments.[...].

SAMPLING METHOD

For testing purposes we were using 2 separate 100 mm2 areas on each of the 2 aprons – 2 separate areas each as follows:

- Zone 1: visibly contaminated area
- Zone 2: visibly not contaminated area [...]

Apron A



Apron used by the first operator under the Goretex sterile gown when intervening in Operating Theatre

Tested zones

ZONE 1
visibly contaminated area

ZONE 2
visibly NOT contaminated area

Apron B



Apron used by the radiographer

NO sterile gowns in use

Tested zones

ZONE 1
visibly contaminated area

ZONE 2
visibly NOT contaminated area





[...] The testing sampling method is based on the use of pink cap ESWAB REGULAR swabs using simple testing procedures [...]

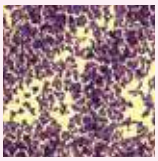
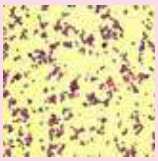
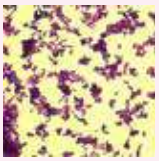


SWAB TESTING & ANALYSIS

The swab testing process, developed by the Microbiology Lab research scientists from the Sant'Anna Hospital in Ferrara (Italy), led to the following analysis results using a blood agar bacterial culture medium.

The swab type in use is applied onto the blood agar plate – rotated and swiped horizontally and vertically – the blood agar plate is then incubated aerobically for 108 hours or in a 5% carbon dioxide atmosphere at 37 degrees C.

Over the incubation period they finally got to the following results:

	Apron A		Apron B			
Swab testing surface	ZONE 1	ZONE 2	ZONE 1	ZONE 2	ZONE 2	ZONE 2
Culture results		Negative				
CFU/ML	3	Negative	2	+ 100 white bacterial colonies	Yellow colonies	Grey colonies
Microbiological results		Negative				
CFU Type results	**Staphylococcus**	Negative	**Staphylococcus**	**Staphylococcus**	**Positive Gram Bacilli bacteria (Corynebacterium)**	**Positive Gram Bacilli bacteria (Propionibacterium)**

FINAL RESULTS

The tested cultures are showing significant results on 1 only tested item and that's the apron type B as it is coming up on the visibly contaminated area involved when processing this monitoring study.

This led to over 100 colony forming units /ml (UFC/ML), divided into white, yellow and grey colonies.

Through the use of those microscope glass slides for use in labs we can summarize the following results:

WHITE COLONIES	**Staphylococcus**
YELLOW COLONIES	**Positive Gram Bacilli (Corynebacterium)**
GREY COLONIES	**Positive Gram Bacilli (Propionibacterium)**

All hospitals across the world require and specify the necessary sterile process of washing, disinfecting and sanitizing in order to guarantee safety conditions on patients and operators, except x-ray protection PPE!

That's a real point of great interest.

CLEANiRad

Automatic washing, sanitizing and drying of X-ray protective PPE* with repeatable process quality standard



(Patent n. 1398606)



XREM400

CLEANiRad cabin complete with 1 double coat hanger and 1 single coat hanger

The first and only device in the world that solves the hygiene problem of X-ray protective PPE

- **Suitable for aprons* and accessories (collars, etc.)**
- Dedicated washing programs
- Traceability of PPE washing processes.
- Optimal washing and sanitizing with dedicated detergents and sanitizers.
- Easy installation.
- Designed for small spaces

WATCH THE VIDEO





* CLEANiRad + iRadProtections PPE. The winning combination.

CLEANiRad washes, sanitizes and dries in an optimal way all the anti-X-ray PPE of the Sago Medica iRadProtection range equipped with **iRad Washing & Drying technology**.

IRadProtection PPE are the only ones that allow a deep and safe sanitation without compromising the attenuation factor **

*** Test Results of resistance of the attenuation factor to washing, available on request.*

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Traceability of PPE washing processes

At the end of each washing cycle on PPE with **iRadPro Map® RFID Tag technology**, CLEANiRad records and uniquely associates the information of the operation to the sanitized PPE.



Thanks to the CLEANiRad internet connection, the information of the washings carried out instantly updates the iRadPro MaP® management database.



Ease of use

Touch controls and intuitive interface allow complete control of the device and selection of washing programs

Easy installation

CLEANiRad requires little space to operate and can be easily installed in suitable environments directly in the healthcare facility..



Dedicated detergents and sanitizers

Their specific formulation ensures hygiene and respect for materials





Accessories

DESCRIPTION	UM	CODE
Single coat holder	pcs	**XRF04000Z1**
Double coat hanger with skirt hanger	pcs	**XRF04001Z1**
Single accessory washing basket	pcs	**XRF04002Z1**
Double accessory washing basket	pcs	**XRF04002Z2**
Hospital clog washer support	pcs	**XRF04003Z1**

Consumables

DESCRIPTION	UM	CODE
NEATiX detergent 10kg tank for at least 200 washing cycles	pcs	**XRBZZ20000**
SANiIT sanitizer 10kg tank for at least 200 sanitation cycles	pcs	**XRBZZ20001**

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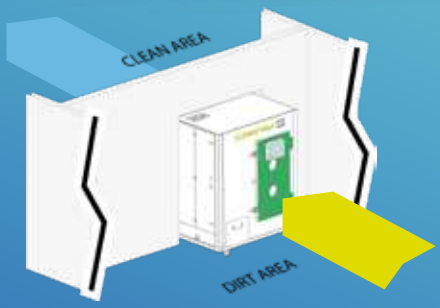
CLEANi Rad™ 2P

Cabin with double pass-through door for the separation of the dirty area from the clean one.



CLEANiRad 2P with double pass-through door, has been designed to meet the needs of integrating the PPE washing process into the sterilization and washing units for hospital products.

Developed on the basis of the CLEANiRad single door model, it maintains the tested technical characteristics unaltered.



Respect for hygiene further increased





iRadProMaP®

Designed to be integrated into the sterilization and washing units for hospital products.

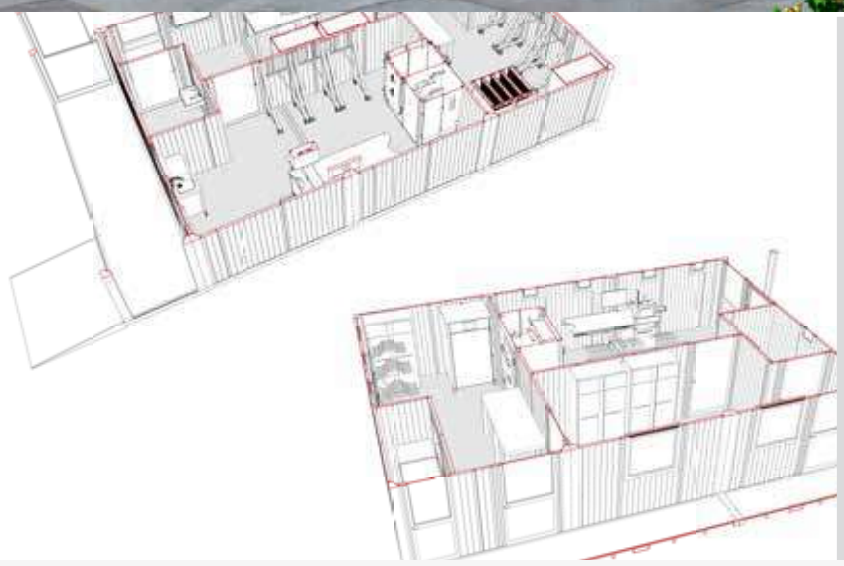
Connection to the iRadProMap® software for updating the database with the washing data of each individual PPE processed.

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X-ray protection PPE washing and sanitizing center in a complete external prefabricated structure





We create tailor-made projects, specific to your every need.

Contact us to ask for our consultancy to build your project together!

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X-RAY MEDICAL TECHNOLOGY

CLEAN area

DIRTY area

IN

OUT

3

High-level disinfection of PPE via STERiRad

Management office

4

Sorting of PPE to the departments of destination





1

Integrity check of the PPE to be washed, through EXAMiRad 2.0

Toilet

2

PPE washing and sanitizing* using CLEANiRad 2P



PPE management always updated

With the iRadProMaP® management system, all the procedures performed on each individual PPE equipped with iRad RFID technology are automatically recorded in the PPE database supplied to the healthcare facility.

iRadProMaP

Turnkey projects studied on actual needs

- Tailor-made projects based on the volumes of the Customer's PPE to manage.
- Optimized design study of dedicated environments.
- Separation of work environments between "dirty" and "clean" areas.
- Training in the use of the washing and sanitizing station

Efficient workflow

Each workspace is designed to make every procedure efficient: from taking charge of PPE, to radioscopic integrity checks; from washing and disinfection at a high level with UVC, to folding and suitable packaging for sorting to the departments.

Comfortable and safety-compliant environments

The structure is made up of prefabricated housing modules equipped with lighting, toilets, heating/air conditioning, and air sanitation by means of a high efficiency HEPA filtering room ventilation system.



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High-level disinfection of X-ray protective PPE

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STERiRad

Treatment of 4 PPE in just 18 minutes

High-level disinfection* of X-ray protective PPE with repeatable process quality standard

**The high-level disinfection procedure is obtained by combining washing with CLEANiRad and disinfection with STERiRad*

Patent n. 102021000016046



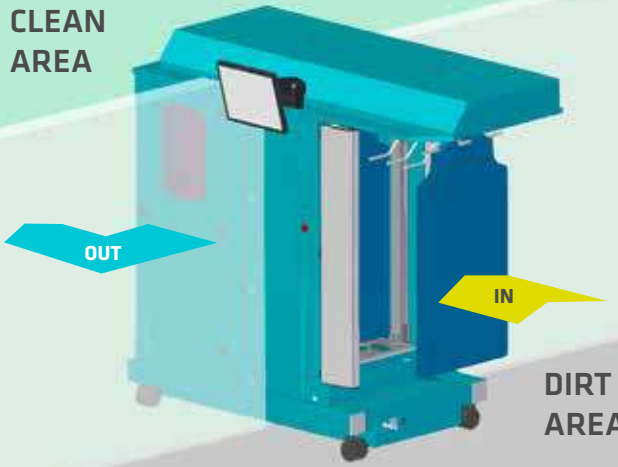
Rapid disinfection and safe treatment of PPE

STERiRad is ideal for sanitizing X-ray PPE between one medical procedure and another.

- **Suitable for gowns and accessories (collars, etc.)**
- Disinfection of PPE surfaces in a few minutes **(up to 4 anti-X-ray PPE at the same time)**
- No installation required
- **Does not damage PPE and maintains its attenuation characteristics unaltered**
- Movement on wheels and compact dimensions

The STERiRad treatment cycle consists of two phases:

1. Compressed air jet and UVC irradiation via AirJet UVC technology
2. Antimicrobial action carried out with iRad HY-GEN 4S disinfectant



Installable between dirty and clean areas

STERiRad can be installed between the dirty area and the clean area, ensuring an accurate, safe management process, eliminating the risk of cross-contamination.

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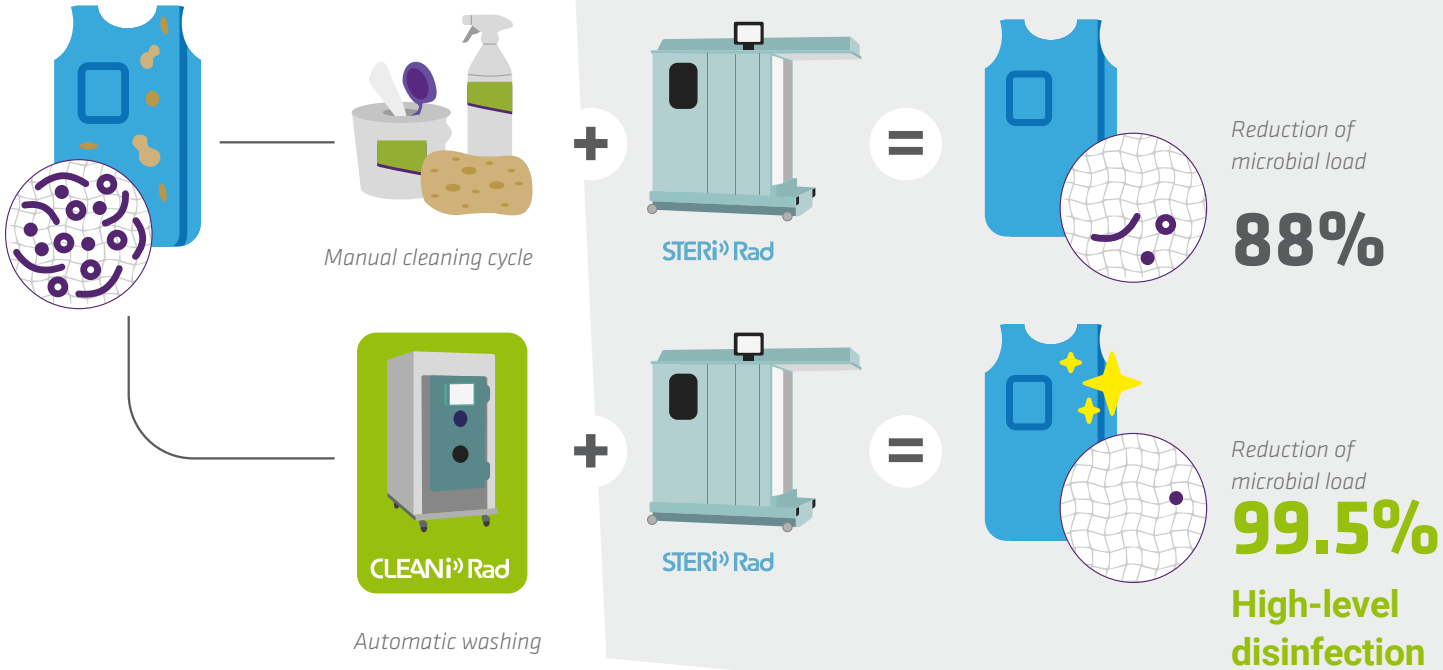
Reduction of microbial load up to 99.5%

By using STERiRad in succession to a washing cycle with CLEANiRad, an almost total reduction of the microbial load present on the PPE is achieved.



Compact dimensions for easy handling even in small spaces

189 x 90 x 176 cm (L. x W. x H)



Reduction of microbial load **72%**

Reduction of microbial load **88%**

Reduction of microbial load **99.5%**

High-level disinfection

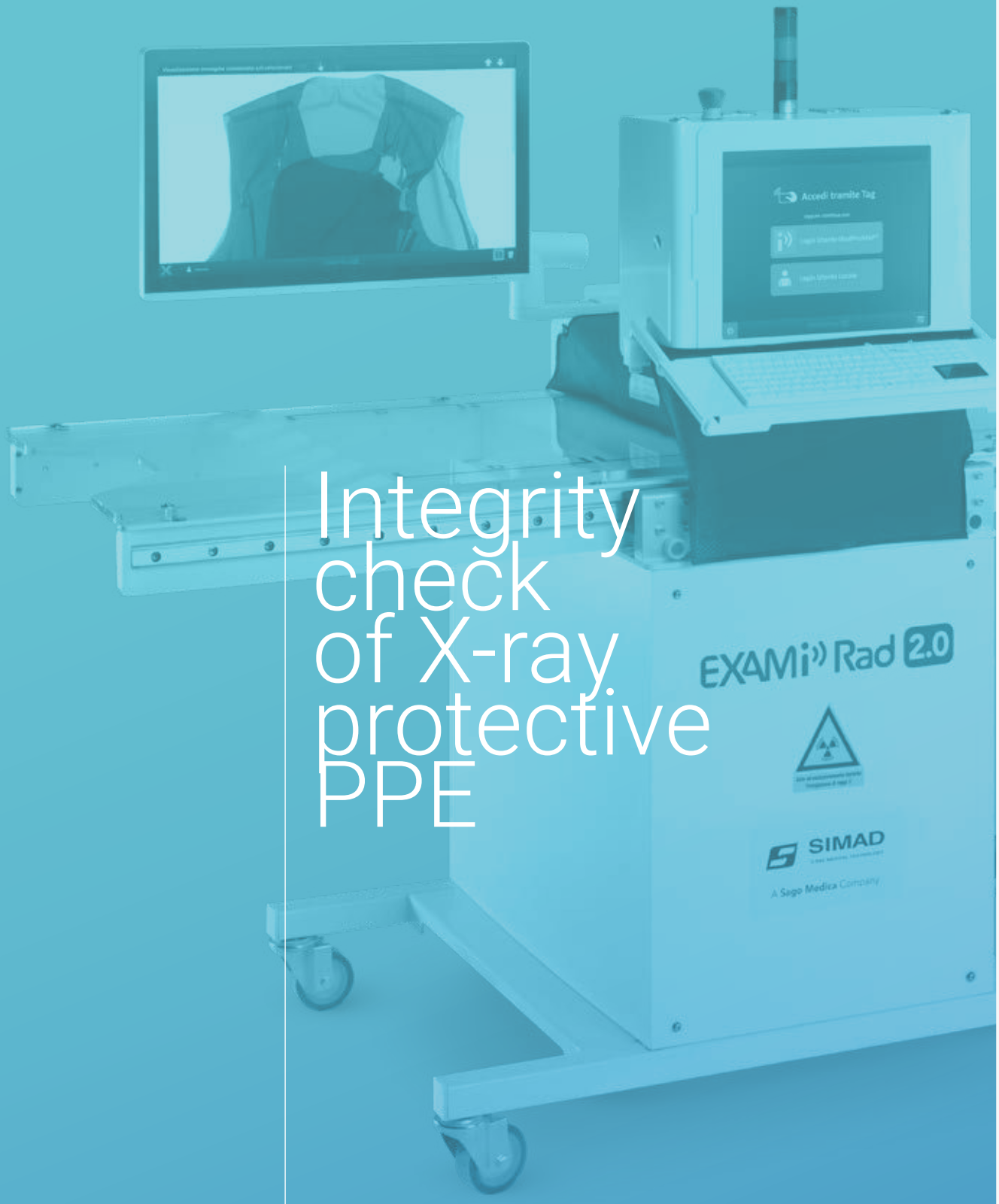


Process traceability and PPE management always up to date

At the end of each high-level disinfection cycle on PPE with iRadPro Map® RFID Tag technology, STERiRad records and uniquely associates the information of the operation to the PPE processed. Thanks to the STERiRad internet connection, the information of the disinfections carried out instantly updates the iRadPro MaP® management database.

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Integrity check of X-ray protective PPE

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EXAMi Rad 2.0

Integrity check of X-ray protective PPE with repeatable process quality standard



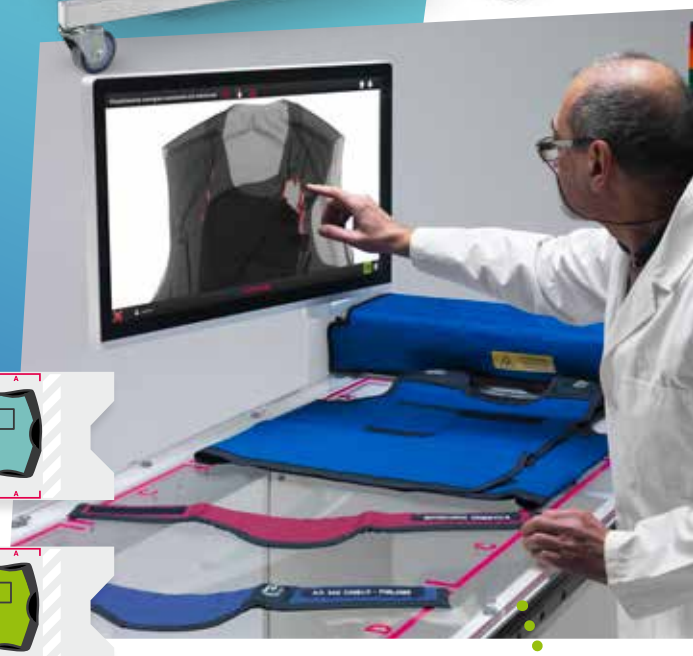
(Patent no. 1406715)

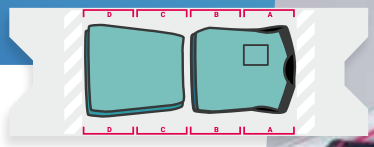
A real help for the safety of operators

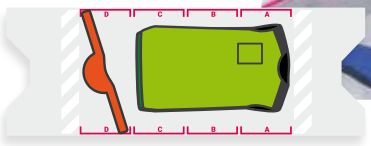


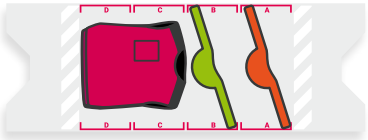
EXAMiRad 2.0 is the only mobile tool that examines the integrity of PPE providing **full, high-resolution X-ray images.**

A great advantage for the radiation protection expert who will be able to efficiently and effectively evaluate the degree of suitability of the PPE present in his facility.









WATCH THE VIDEO



Flexible organization of your workload

The EXAMiRad 2.0 work plan is divided into four sectors that guide the correct arrangement of the PPE to be checked.

EXAMiRad 2.0 allows the scanning of multiple PPEs at a time, keeping the test results always divided and uniquely associated with the relevant PPE.

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Automatic identification of anomalous areas through Artificial Intelligence

Through the artificial intelligence software, EXAMiRad 2.0 autonomously identifies the areas of the PPE that present anomalies.

Each portion of the shielding sheet recognized as not intact is visually indicated on the screen and EXAMiRad 2.0 calculates the area in mm^2.

Thanks to this information, the Radiation Protection Expert will be able to reliably and quickly assess the suitability of the PPE.

PPE attenuation test

Based on the grayscale fluoroscopic image of the integral integrity test of the PPE, obtained with known energy, a pixel-by-pixel colorimetric comparison of the image is made with different objects of known thickness and attenuation.

This comparison leads to the creation of a colorimetric map in which each color provides an index of the attenuation detected on the basis of the thickness of the PPE.



Integrity Test Image



Attenuation Test Image



Computerized management of integrity checks

At the end of the tests carried out on PPE with **iRadPro Map® RFID TAG technology,** EXAMiRad 2.0 uniquely records and associates the radiological images produced during the scan, together with the outcome of the suitability assessment of the examined PPE.

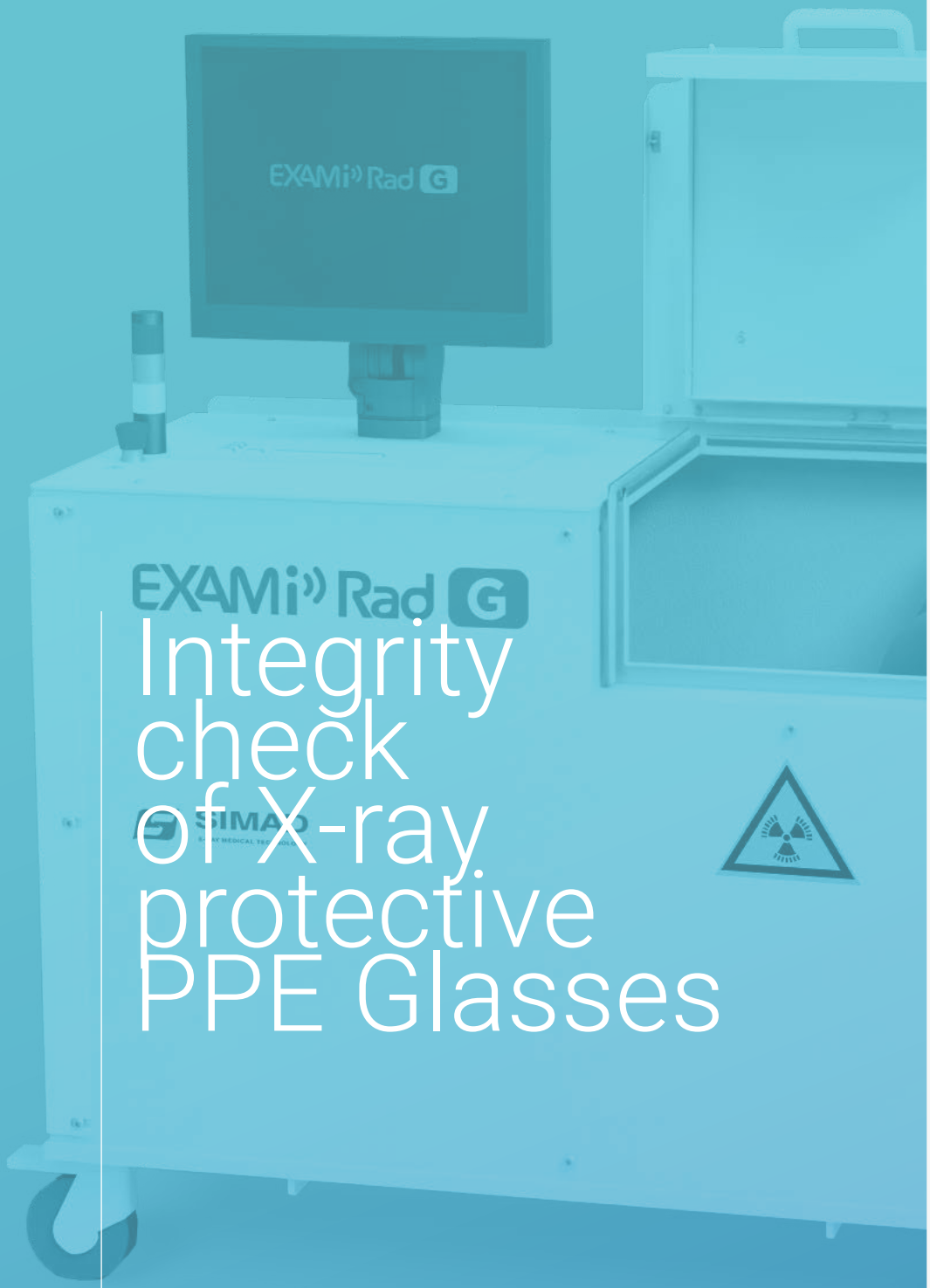
Thanks to the EXAMiRad 2.0 internet connection, the information of the checks carried out instantly updates the iRadPro MaP® management database.

Operator's complete radiological safety

During the scan performed by X-ray delivery, the operator is safe from radiation. The structure of EXAMiRad 2.0 is completely shielded..

iRadProMaP

iRadProMaP inside by SIMAD srl



EXAMi Rad G

Integrity check of X-ray protective PPE Glasses

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EXAMi Rad G

Integrity check of X-ray protective PPE Glasses with repeatable process quality standard



(Patent n. 1406715)

A real help for the safety of operators

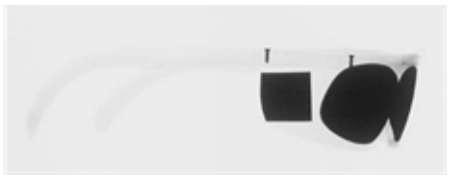
EXAMiRad G is the only mobile tool that examines the integrity of Glasses PPE providing full, high-resolution X-ray images.

A great advantage for the radiation protection expert who will be able to efficiently and effectively evaluate the degree of suitability of thePPE present in his facility.

Flexible organization of your workload

ExamiRad G can carry out x-ray checks on glasses or masks. ExamiRad G automatically checks both the front and the side.







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Automatic identification of anomalous areas through Artificial Intelligence

Through the artificial intelligence software, EXAMiRad G autonomously identifies the areas of the PPE that present anomalies.

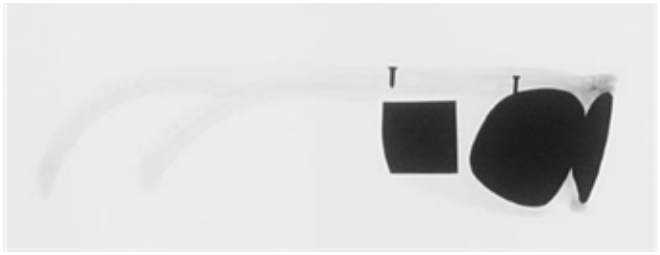
Each portion of the shielding sheet recognized as not intact is visually indicated on the screen and EXAMiRad G calculates the area in mm^2.

Thanks to this information, the Radiation Protection Expert will be able to reliably and quickly assess the suitability of the PPE.

PPE attenuation test

Based on the grayscale fluoroscopic image of the integral integrity test of the PPE, obtained with known energy, a pixel-by-pixel colorimetric comparison of the image is made with different objects of known thickness and attenuation.

This comparison leads to the creation of a colorimetric map in which each color provides an index of the attenuation detected on the basis of the thickness of the PPE.





Computerized management of integrity checks

At the end of the tests carried out on PPE with **iRadPro Map® RFID TAG technology,** EXAMiRad G uniquely records and associates the radiological images produced during the scan, together with the outcome of the suitability assessment of the examined PPE.

Thanks to the EXAMiRad G internet connection, the information of the checks carried out instantly updates the iRadPro MaP® management database.

Operator's complete radiological safety

During the scan performed by X-ray delivery, the operator is safe from radiation. The structure of EXAMiRad G is completely shielded..

iRadProMaP

iRadProMaP inside by SIMAD srl

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Education & Training

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Knowledge and experience create safety.

And safety creates healthy conditions as required.

A knowledgeable and fully trained operator becomes a healthcare professional who works not only on the patient's health but for his own one also.



We organize training courses on the safe use of x-ray protection products.

Buying newer technology systems is not the only crucial factor coming up.

We have been working together with industry companies to promote education as company culture to improve skills regarding the use of both personal and collective protection devices and enhance safety conditions.

That's how we had a start with our own manuals and brochures on the safe use of x-ray protection products as well as radiation protection procedures to follow for both patients and operators.

Our professional experience enables us to work on new great opportunities such as organizing training courses depending on specific needs and requirements

For any further details or quotations you may require please make contact with your local SIMAD agents or directly with our Customer Service team members.



DISCOVER A NEW WAY OF TRAINING IN RADIATION PROTECTION

We have created the one and only simulator that allows you to *see* the impact of scattered radiation.

Through a specific educational program and the use of the SIMAD simulator, it is now possible to fully understand the risk arising from radiological exposure in the operating room and assimilate radiation protection techniques in a completely new and intuitive way.

Get in touch with us to learn more about it



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The full company details will need to show up on any purchase orders to come: company name and full address details, VAT number,...

Please make sure the full product codes and technical descriptions are specified when ordering.

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FAX:	**051 686 12 46**
Mail:	**SIMAD srl** **Via Zallone 25** **40066 Pieve di Cento** **Bologna, Italy**

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The matching supplying conditions and requirements will be specified when quoting

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Design: Danilo Mistroni

2025-04

RADIATION PROTECTION CATALOG

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MANUFACTURED
IN ITALY

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Italy

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