X-FRAME DR SYSTEMS

Tailor-made for all your needs in
Digital Radiography (DR)

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X-FRAME
DR SYSTEMS

The X-FRAME DR SYSTEMS line is ITALRAY's family of Digital Radiography Systems that can be tailor-made to perfectly match the most important clinical and technical requirements: YOURS!

PRODUCTIVITY
– AUTO POSITIONING
– DYNAMIC TOUCH SENSOR
– AUTO TRACKING
– AUTO FOCUSING
– AUTO COLLIMATION
– FULL INTEGRATION
– OPERATIONAL FLEXIBILITY
– EXTREMELY USER FRIENDLY SOFTWARE

IMAGE QUALITY
– everest-X
– HIGH DYNAMIC RANGE

DOSE REDUCTION
– HIGH DQE
– *INSTA*focus GRID
– ANATOMICAL PROGRAMS
  WITH PAEDIATRIC APPLICATIONS
– DOSE MONITORING

CONNECTIVITY
– FULL DICOM PACKAGE
– REMOTE ASSISTANCE ON ALL SYSTEMS

MODULARITY
– CONFIGURABLE SYSTEMS
  TO MATCH END USER NEEDS

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Perfectly fits
# all YOUR NEEDS!

PRODUCTIVITY

AUTO POSITIONING

Full Automatic positioning based on selected exam and projection. Predefined and customizable system positions.
System positioning, patient data, and X-ray settings are also available from tube-mounted touch screen console.

DYNAMIC TOUCH

Automatic movements activated via sensors positioned on both sides of the console.
Command the tube movements with your hand without a touch: a truly effortless experience!
Additional full system remote control from the dedicated console in the control room.

Dynamic Touch
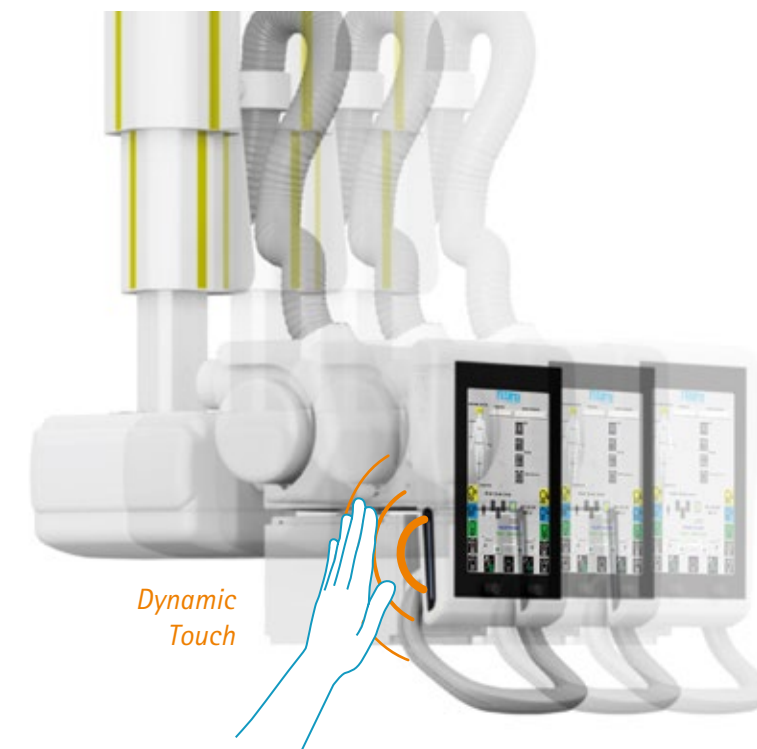
AUTO TRACKING

X-ray tube and digital flat panel detectors are always kept automatically aligned for a simple and correct exam execution. Automatic alignment is always maintained also for oblique projections.

AUTO COLLIMATION

According to the selected examination, patient size, and focal distance (SID), exact collimation is automatically set. Special collimation available for paediatric exams.
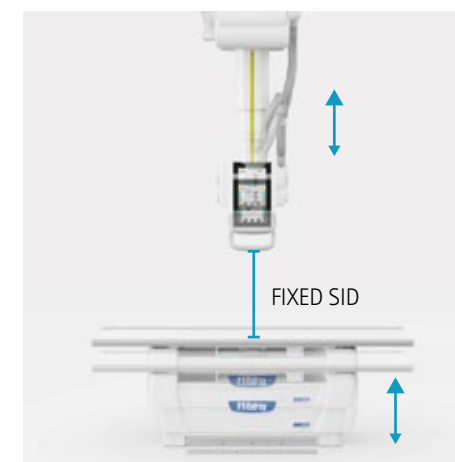
OBLIQUE PROJECTION ON ELEVATING TABLE WITH AUTO TRACKING

VERTICAL AND CHEST EXAMINATIONS WITH ADJUSTABLE FOCAL DISTANCE AND AUTO TRACKING

EXAMINATION ON ELEVATING TABLE WITH AUTO FOCUS

AUTO FOCUS

Selected SID is automatically maintained also during table elevation.

FIXED SID

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e-*motion* your
DR room with a light touch!

PRODUCTIVITY

HIGH AUTOMATION

Automatic motorized detector vertical movement and automatic motorized detector tiling and rotation: all these advanced functions assure maximum system versatility for all applications.

AUTO GRID ALIGNMENT

Thanks to the automatic motorized detector tilting and rotation movements, grid and ionization chambers are always perfectly aligned in order to perform emergency exams on mobile tables, also for oblique projections.

IMAGE STITCHING

With the optional Image Stitching package it is possible to acquire Full-Spine and Full-Leg images with the help of dedicated orthopaedic tools.

The images are acquired with a fully automatic procedure in which X-ray tube and digital flat panel detector are automatically moved and kept always aligned. The adjacent images are then automatically stitched togheter in just one single image.

MOTORIZED
VERTICAL
MOVEMENT

MOTORIZED
TILTING AND
AUTO GRID
ALIGNMENT

+ 90°

− 20°

0°   90°

0°   90°

AUTO POSITIONING
FOR CHEST
EXAMINATIONS

AUTO POSITIONING
FOR EXAM ON A MOBILE TABLE
FOR EMERGENCY ROOM

*Automatic stitching acquisition*
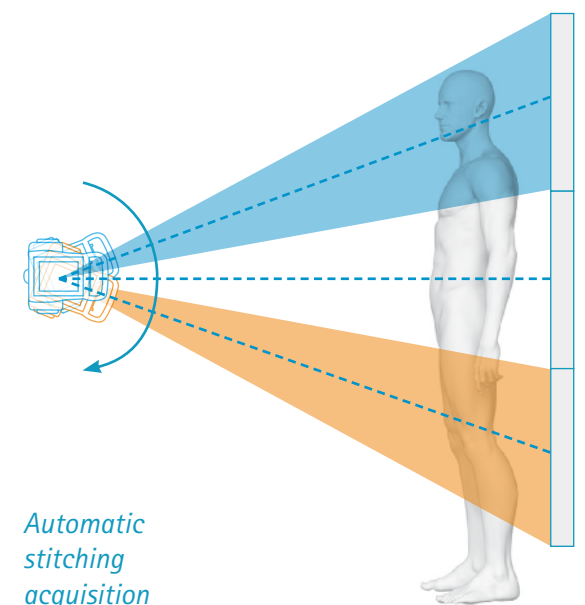
FULL-SPINE IMAGING   FULL-LEG IMAGING

The entire procedure is extremely fast in order to guarantee a maximum patient comfort and optimal image quality with minimized risk of patient movement thanks to very short exposure times.
A patient stabilization tool makes the procedure totally seamless.

COLLISION PREVENTION SYSTEM

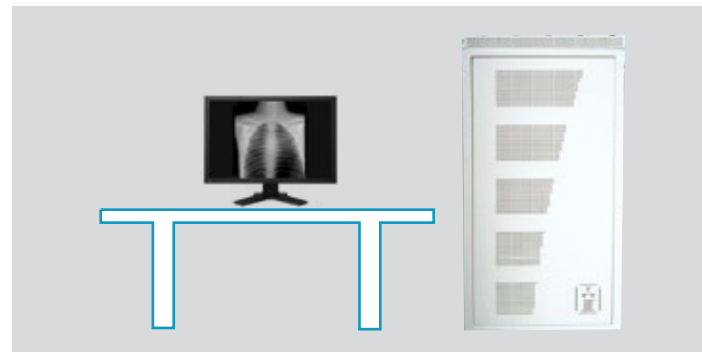Automatic movements immediately stop as soon as anti-collision sensors detect an obstacle.

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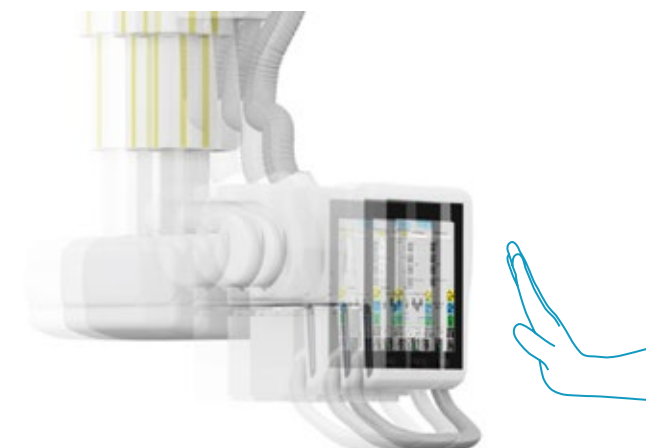
All system components are perfectly integrated and managed with one single console.
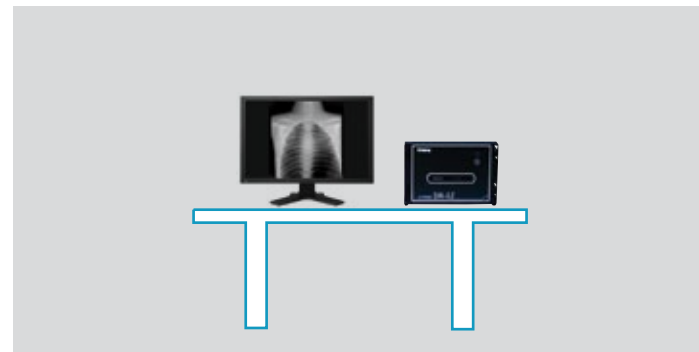
X-FRAME DR

X-FRAME DR
FULL WORKSTATION

High-capacity system and redundant local archive with mirrored hard drives for data storage and recovery.

X-FRAME DR-EZ
WORKSTATION

Plug and Play fan-less system with minimal footprint.

WIDE CHOICE
OF DETECTORS

The X-FRAME DR SYSTEMS line offers an unprecedented operational flexibility with a wide choice of fixed and portable wireless digital flat panel detectors.

Detector Sharing!

The wireless digital flat panel detectors can also be shared with ALL other Italray DR and DRF systems, for a maximum optimization of investment.

X-FRAME DR2T SYSTEM

X-FRAME DR2S SYSTEM

XFM

X-FRAME DRT SYSTEM

X-FRAME DR-EZ

CLINODIGIT OMEGA

Benefit from complete integration

Enhance versatility with shared solutions

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MAXIMUM OPERATIONAL FLEXIBILITY WITH THE WIRELESS CASSETTE-SIZE DETECTORS

Maximum operational autonomy, wireless image transmission.

Unlimited flexibility acquiring images in difficult projections and in contact with patient.

Additional digital flat panel detectors can also be added at a later moment if needed.

X-FRAME DR SYSTEMS wireless cassette-size digital flat panel detectors feature high performances and are among the **lightest** in the market.
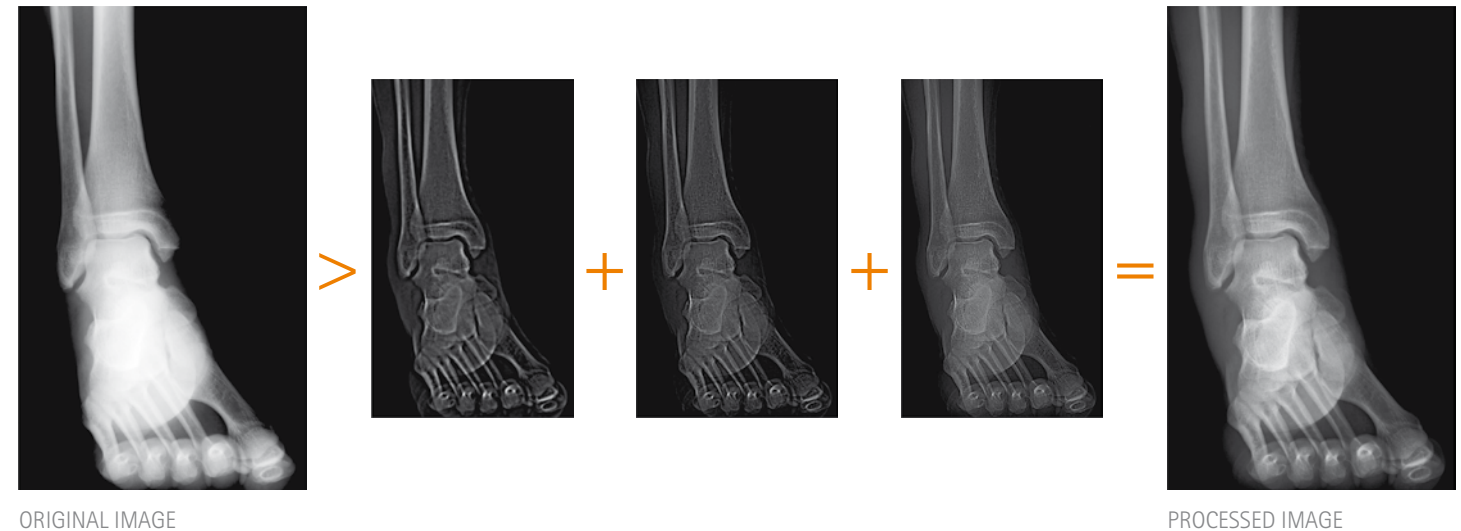
powered by
everest-X
image processing


ORIGINAL IMAGE

PROCESSED IMAGE

everest-X HIERARCHICAL ALGORITHM

The everest-X algorithm automatically optimizes image-processing based on exam type and anatomical region. everest-X enhances image content details in both high attenuation image areas (shoulders, abdomen) and, at the same time, low attenuation image areas (lungs, cavities).

Additional post-processing tools are also available such as:
– Edge Enhancement
– Unlimited Zoom and Real Size
– Window/Level (auto and manual)
– Measurements
– Annotations
- Electronic Collimators
– Image Stitching (auto and manual)
– Deviation Index (DI)
– Exposure Index (EI)

Improve flexibility
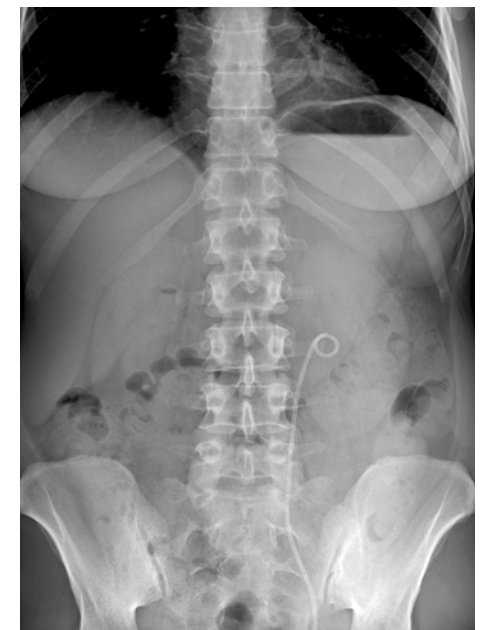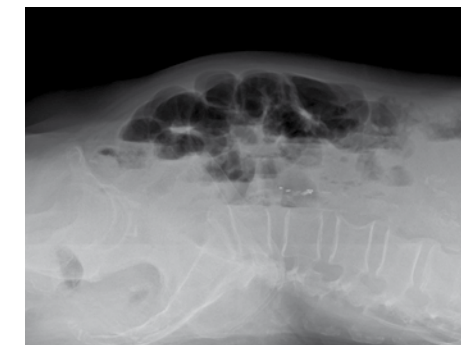
Effortless diagnosis

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Improve patient care

Offer continuous customer assistance

HIGH DQE

The high DQE (Detective Quantum Efficiency) granted by the latest-generation digital flat panel detectors assures a significant dose reduction compared to traditional or CR imaging systems.

INSTAfocus

The innovative INSTAfocus moving grid system with its "pendulum" movement keeps the grid always in optimal focusing conditions with minimum absorption, thus guaranteeing a significant dose reduction compared to traditional oscillating grids and an even further reduction compared to high density stationary grids.
The INSTAfocus moving grid system also allows using one unique grid for all SIDs. Thus further improving productivity and ease of use.

ANATOMICAL PROGRAMS WITH PAEDIATRIC APPLICATIONS

The X-FRAME DR SYSTEMS units are supplied with dedicated tools for Paediatrics and Neonatology. All protocols (for both acquisition and processing) are organized with anatomical programs and optimized for the specific exam and projection, basing on the different ages of the paediatric patient. In this context, a special attention is given to Dose Monitoring and Reporting.

FULL DICOM PACKAGE

The X-FRAME DR software is integrated with an easily configurable Full DICOM package compatible with any RIS and PACS system or DICOM Printer.

The daily worklist is automatically downloaded from the Radiology Information System (RIS).

The X-FRAME DR software automatically sets all parameters for the selected patient. Once the imaging session is completed, the study is ready to be sent to any PACS or DICOM Printer.
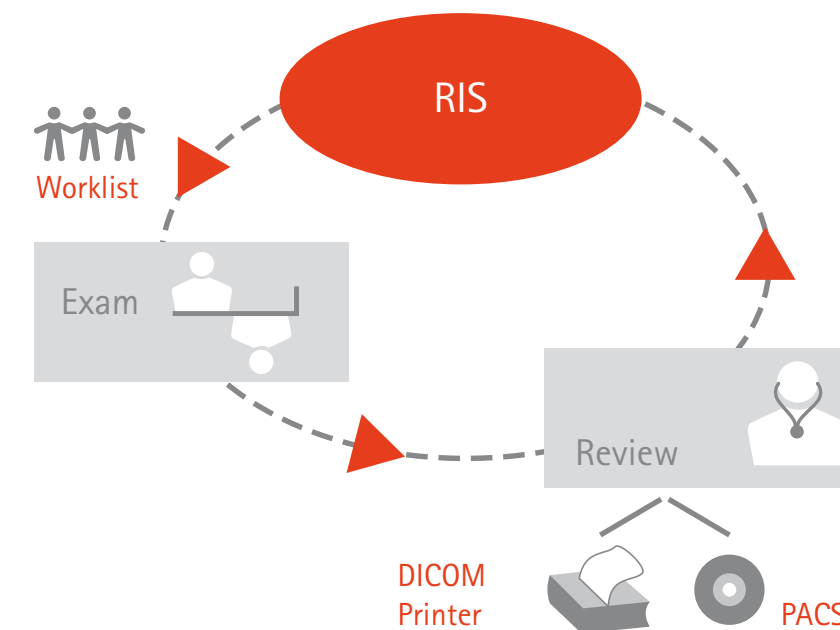

REMOTE ASSISTANCE ON ALL SYSTEMS

All X-FRAME DR SYSTEMS rooms are equipped with the Italray Remote Assistance Service and can be remotely monitored through a simple Internet connection.

The Remote Assistance Service is mainly used for service troubleshooting, installing software upgrades and optimizing system settings in order to guarantee the best image quality with the lowest dose.

The Remote Assistance Service reduces maintenance costs while increasing reliability, with many advantages for the end user.

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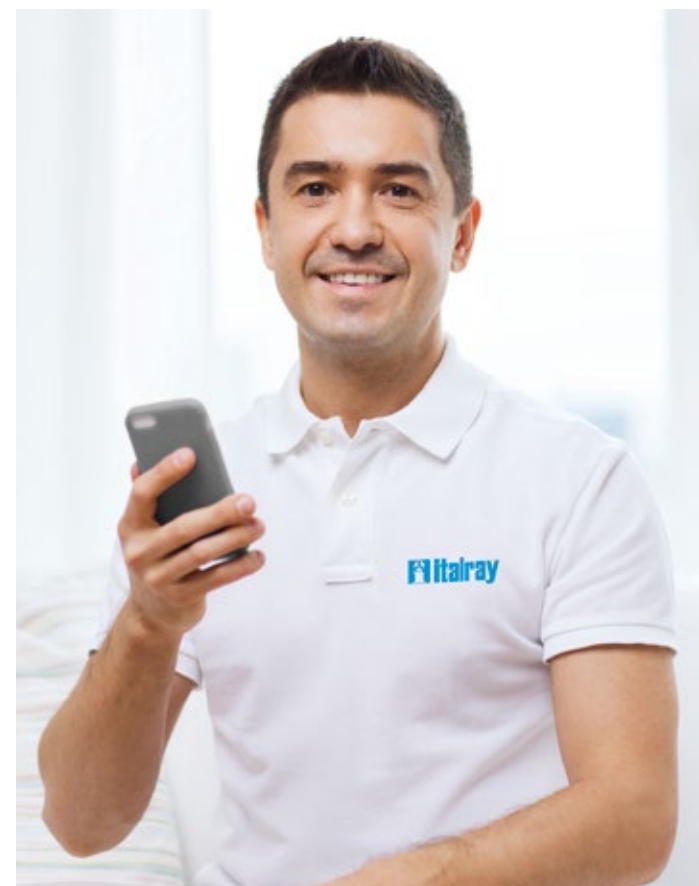
MODULARITY

X-FRAME DR SYSTEMS

Configurable systems to match all customer needs. The modularity of our X-FRAME DR SYSTEMS line permits to customize the system configuration to any particular end user requirement.

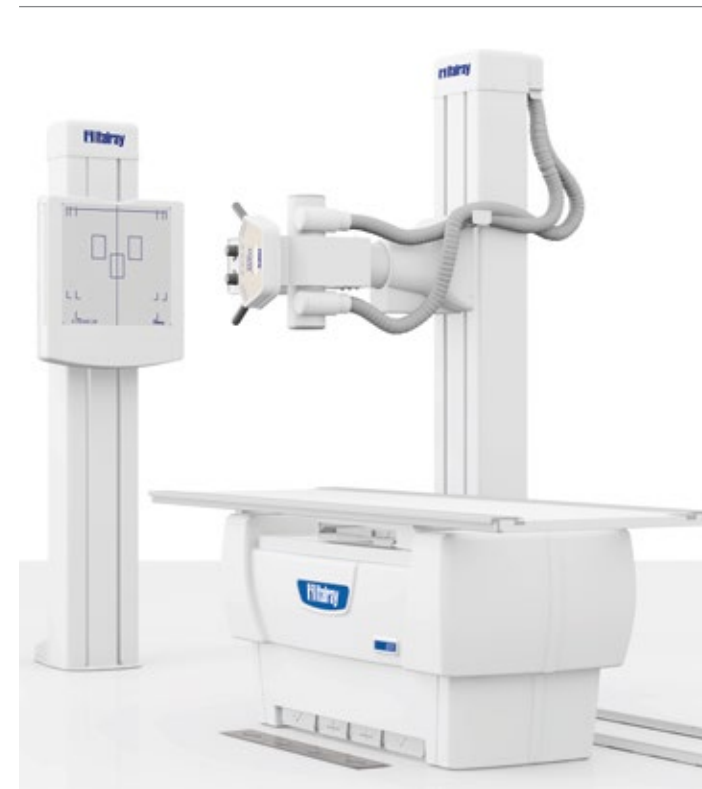## Perfectly fits all YOUR NEEDS!

X-FRAME DR2T SYSTEM

High productivity system for General and Emergency examinations.

X-FRAME DRT SYSTEM

High productivity system for Chest and Emergency examinations.

X-FRAME DR2S SYSTEM

High productivity system for General and Chest examinations, with minimal space requirements.

XFM

Mobile system for Digital Radiography with wireless digital flat panel detector, available with fully motorized system movements for outstanding manoeuvrability.

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ABOUT ITALRAY

ITALRAY was founded in 1974 with the goal of manufacturing high-quality Medical X-ray Systems, 100% made in Italy. ITALRAY's core business is Medical Imaging with a special focus on Digital X-ray Imaging. ITALRAY activities range from product development to manufacturing, commercialization, installation, and service: we take care of our products throughout their entire lifecycle.

ITALRAY is now present in more than 60 countries worldwide with thousands of installations.
The ITALRAY distribution network is growing every day!

All ITALRAY processes comply with the highest quality standards. ITALRAY's Quality System fully responds to the requirements of the European Directive 93/42/CEE (and subsequent amendments) on medical devices and every single ITALRAY product is CE marked. ITALRAY's corporate Quality System is also in compliance with ISO 9001:2008 and ISO 13485:2012 STANDARDS.

Made in Italy

italray.it

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QUALITY SYSTEM CERTIFICATION
DNV·GL
ISO 9001

QUALITY SYSTEM CERTIFICATION
DNV·GL
ISO 13485