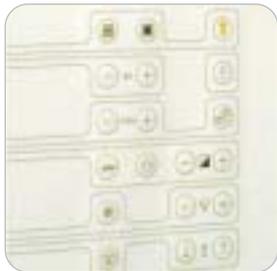


# mammographic solutions



We understand that customers don't need just products, they want **solutions**





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## company profile

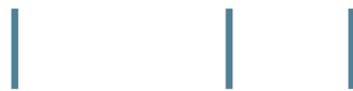
ITALRAY Srl was founded in 1974 as the production branch of Marzocchi L&C SpA, a company formed in 1945 and still successfully operating in medical products distribution. ITALRAY headquarters and main production facility are located in Scandicci, in the greater Florence metro area. ITALRAY's core business 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.

### X-RAY SOLUTIONS

ITALRAY's R&D department is always working on the cutting edge of technology to make sure that ITALRAY products are always technologically advanced, highly reliable, and with a very competitive total cost of ownership. ITALRAY offers to its customers worldwide a complete answer to their radiological needs: from the small mobile unit to X-ray generators, tilting tables, digital fluoroscopy systems, and up to complete digital radiology rooms. At ITALRAY we understand that customers don't need just products, they want SOLUTIONS.

### QUALITY

To ensure complete customer satisfaction, all ITALRAY processes, from design to production and service, are performed in compliance with the highest quality standards. Every single ITALRAY product is CE marked and ITALRAY's corporate quality system has been ISO 9001 certified since 1998. In 2001, as an evidence of the continuous commitment to total quality, ITALRAY was among the first companies to obtain the ISO 9001/2000 certification also known as VISION 2000. The radiologists of more than 50 countries worldwide are using ITALRAY products with complete satisfaction.





## mammograph plus

Starting from the widely successful and extremely reliable ITALRAY mammography platform, MAMMOGRAPH PLUS has been developed with both operators and patients in mind: the result is a system which is extremely intuitive and safe to operate and at the same time absolutely comfortable for patients during imaging procedures.

MAMMOGRAPH PLUS is characterized by best-in-class features such as a 100kHz X-ray generator, a dual-microfocus and Bi-angular X-ray tube, an automatic Rh/Mo filter, and an isocentric arm for easy and fast patient positioning and enhanced productivity.

Ease of installation and return of investment were also key factors in the development of the MAMMOGRAPH family: MAMMOGRAPH PLUS features an all-in-one design with internal X-ray generator and integrated movable glass protection and control console. Installation is therefore a straightforward process and room space requirements are minimal.



## image quality without compromises

High image quality in the MAMMOGRAPH PLUS starts with a best-in-class 5kW, 100kHz X-ray generator delivering an extremely precise and stable tube voltage for image clarity and contrast, and this is just the beginning. A dual-microfocus and Bi-angular X-ray tube guarantees optimal X-ray coverage at all magnification levels, while the automatic Rh/Mo filter adapts the X-ray emission spectrum to the specific breast characteristics. And a 9-sensor solid state detector is the heart of an advanced Automatic Exposure Control system (AEC) which allows fully automatic operation (zero-point technique). One-point and two-point techniques are also available. The AEC is also capable of storing a number of predefined film/screen settings for fast and easy operation and a carbon fiber grid is employed for maximum image quality.



## designed with patient comfort in mind

Patient comfort was one of the main goals of the MAMMOGRAPH PLUS development team: breast compression is servo-driven and can be adjusted case by case according to the individual patient's breast characteristics. Alternatively, a preset compression scheme can be employed basing on the chosen protocol, and manual compression is available as well. Furthermore, ergonomically designed compression plates and an open unit architecture guarantee maximum breast diagnostic visibility up to the chest wall, and make patient positioning and breast stabilization easy and with high patient comfort.

MAMMOGRAPH PLUS features a fully counterbalanced isocentric C-arm, thus allowing all projections to be taken without any need for time-consuming breast repositioning. As a matter of fact, all projections, with a +/- 180° rotation range, can be taken by simply rotating the C-arm around the breast, which allows for very short examination times, with clear advantages in terms of both patient friendliness and department throughput enhancement.



## easy to install, intuitive to use

MAMMOGRAPH PLUS is characterized by an extremely compact all-in-one design: X-ray generator and control console are incorporated in the unit body, and so is the movable glass protection. Room space requirements are therefore minimal, and the installation process is extremely simplified. The film marking device is incorporated in the potter bucky for seamless operation. The microprocessor-controlled system console is equipped with self diagnosis software with event log for maximum safety.



## mammograph

Combining technological advances with ergonomic design, MAMMOGRAPH is both very easy to operate and extremely comfortable for the patient. Furthermore, thanks to its very competitive cost of ownership, MAMMOGRAPH is the ideal choice for small departments and private practices.

MAMMOGRAPH features a high frequency X-ray generator and a dual-microfocus X-ray tube, with zero-point, one-point, and two-point operations. A 18x24 cm potter Bucky with carbon fiber grid, magnification device, and film marking device is also standard and customer special requirements can also be met thanks to the complete array of high quality accessories supplied upon request.

Just like the PLUS version, MAMMOGRAPH is equipped with a self-test/diagnosis system, and exposure parameters and errors are logged to facilitate troubleshooting and service interventions.



### accessories

- Geometric magnification system
- 24x30 cm potter Bucky
- Special kit: collimators and compression paddles
- Free standing X-ray screen for operator protection with or without remote control
- Daylight electronic alphanumeric identification system for printing and recording patient data and examination parameters directly on the film
- Height-adjustable patient chair
- 16x22 cm perforated compression paddle with metallic grid for bidimensional biopsy



### bym 3D and mammograph bym

The BYM 3D computerized stereotactic needle breast biopsy system is easy and intuitive to use and allows biopsy procedures to be performed automatically and with micrometric precision.

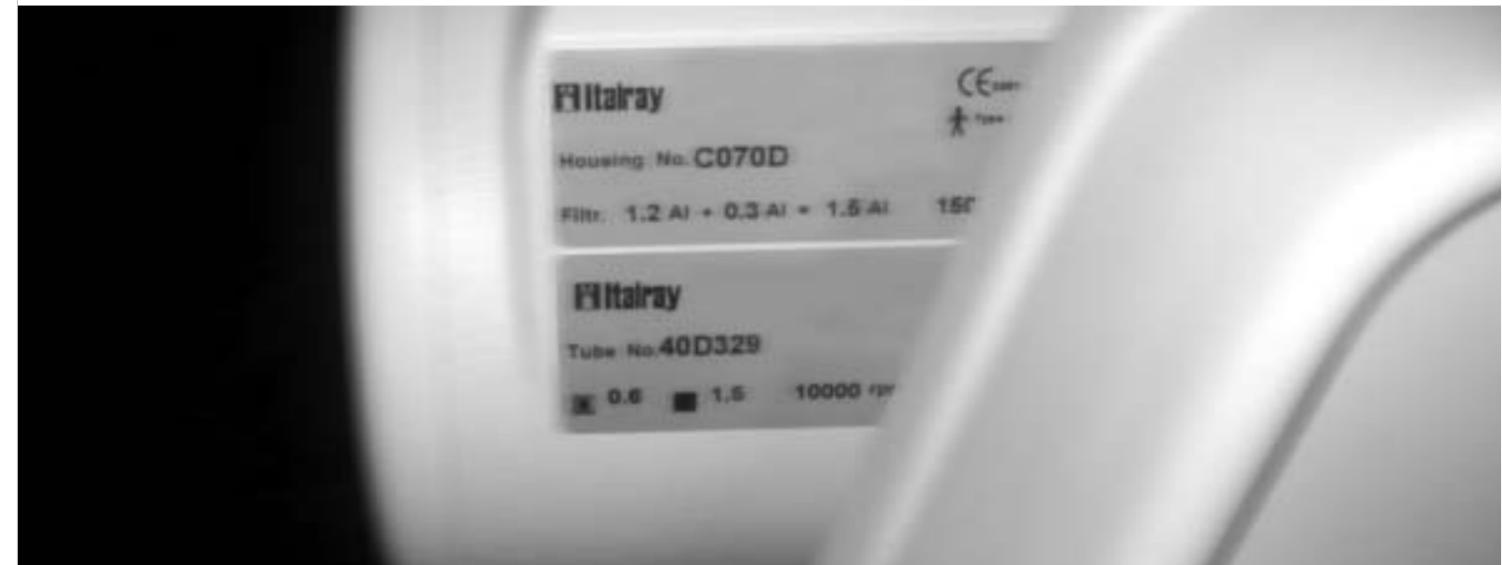
The MAMMOGRAPH BYM filmless digital cassette is an innovative CCD camera for small-field (50x50 mm) very high-resolution (40µm) digital mammography applications such as diagnostic spot mammography, needle localization, and stereotactic needle breast biopsy. The MAMMOGRAPH BYM imaging system is supplied as a complete X-ray imaging system, including digital cassette, acquisition workstation, DigiMam imaging software and interface to the stereotactic biopsy system BYM 3D. The digital cassette easily replaces the film cassette and is fitted into the standard potter Bucky. BYM 3D and MAMMOGRAPH BYM are available on both MAMMOGRAPH and MAMMOGRAPH PLUS.

## service

Radiological systems typically have a long life span and need to be always maintained in perfect conditions. At ITALRAY we are perfectly aware of this need and our experienced service engineers will follow all ITALRAY systems and keep them always in fully working conditions both directly and via remote diagnostics.

ITALRAY service department is famous for its extremely fast response time and very accurate interventions. This is also made possible by the always fully stocked spares warehouse. In addition to that, ITALRAY carries an inventory of numerous X-ray tube types and models, both ITALRAY branded and from other major producers, and is capable to fulfill any X-ray tube necessity that may arise.

ITALRAY can also offer a wide range of service plans ranging from periodical inspections and checkups, up to complete full risk packages. Whichever the customer needs are, there is always an ITALRAY service plan that best fits them.



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