

Radiographic system, digital

Country of origin | Switzerland

Primary function | Diagnosis

Health problem addressed

According to WHO figures, more than two thirds of the world's population does not have access to diagnostic imaging. Too often in developing countries, patients die of trivial problems, which take dramatic proportions due to a lack of access to diagnosis. Road accidents, tuberculosis, and complications from childhood pneumonia are the most recurrent examples of pathologies causing complications that could be prevented with functional and efficient X-ray imaging service.

Disease addressed

Certain infectious and parasitic diseases; diseases of the circulatory system; diseases of the respiratory system; diseases of the digestive system; congenital malformations, deformations, and chromosomal abnormalities; injury, poisoning and certain other consequences of external causes.

Product information

The project aims to develop an all-in-one digital radiography system for images acquisition, storage and review, specifically adapted to low and middle income countries (LMICs). The system has to be cost-effective, very robust and require minimal maintenance while being performant and easy to use. The digital X-ray detector, the mechanical positioning system, the high voltage generator and an uninterruptible power supply have been completely redesigned to match the needs and the constraints of the context.

Use and maintenance

User: Technician, specialized physician

Training: The equipment should be operated by health professionals (radiography technicians). However, the system is much easier and simpler to use than any other similar devices. Integrated multimedia tutorials guide the user through the whole process and ensure that the safety concerns are followed (radioprotection). A training program will be established and one day of training on a simulator will be necessary to ensure that the device is used correctly.

Environment of use

Setting: Rural settings, primary level (health post, health centre), secondary level (general hospital).

Energy requirements: Rechargeable battery, continuous power supply, solar power.

Product specifications

Other features: Radiation isolation

Commercial information

Reference price (USD): 70000

Model: GlobalDiagnostiX

