

From radiography to
artificial intelligence



 **TESEO**

DIGITAL RADIOGRAPHY
ACQUISITION SOFTWARE

 **digitec**
DIGITAL INNOVATION

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digitecinnovation.com



Digitec

Providing **software solutions** and developing radiological image processing **since 1985**

presents



TIRESYA

Tiresya is **our intelligence, our innovative approach** to radiology. It is the pulsing heart of our software solutions. Tiresya represents our **expertise, knowledge** and our **outlook** on the

future. It holds our know-how, our experience in the field, as well as the most innovative features in digital radiology and the most sophisticated **AI algorithms**.

Tiresya is the core of our products

ERACLE

ODIS

TESEO

ARGO

KADMO

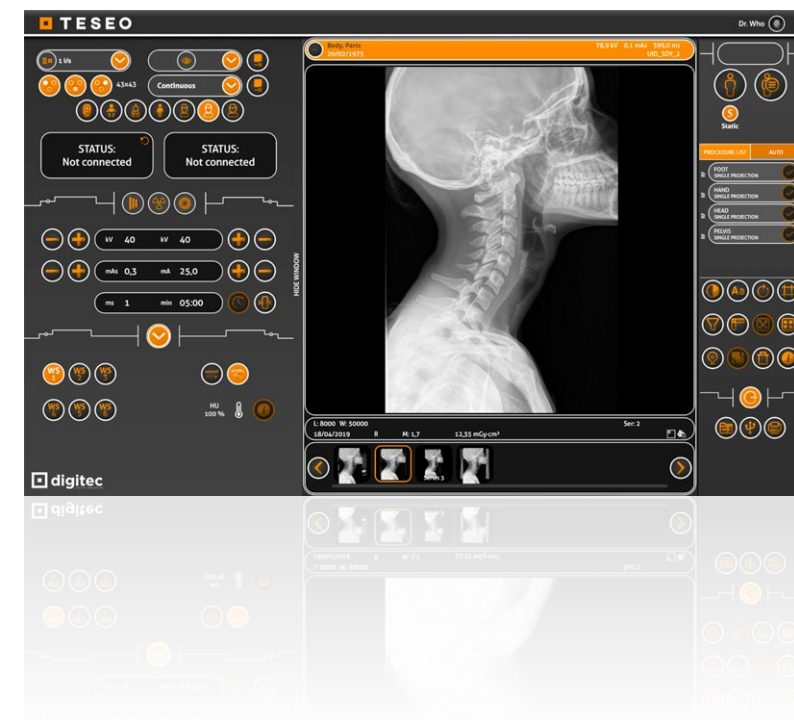


TESEO

DIGITAL RADIOGRAPHY ACQUISITION SOFTWARE



Part human, part divinity. With Teseo we celebrate humankind and his ability to face seemingly impossible challenges, that can be overcome thanks to ingenuity and knowledge sharing.

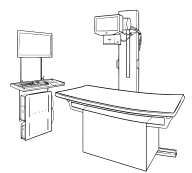




Digital radiography acquisition software



Intended use:



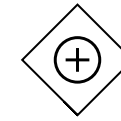
STATIONARY SYSTEM



MOBILE SYSTEM



TABLET



The advantages of all time

WORKSTATION CONSOLE

We supply medical and consumer PCs already configured with our software. We prioritize Windows 10 LTSC, Cybersecurity and GDPR

MULTI DETECTOR SYSTEM

Compatible with over thirty static and dynamic detectors on the market

X-RAY DEVICES INTEGRATION

Generators, accessories and 3rd party systems

SMART USABILITY

User-friendly interface, touch oriented, multi resolution format, multi language support, customizable UI

DICOM 3.0 COMPLIANCE

Store, Print, Worklist, MPPS, CD/DVD/USB, Dose SR, Query/Retrieve, Storage Commitment

PROPRIETARY ADVANCED PROCESSING ALGORITHMS FOR IMAGE QUALITY

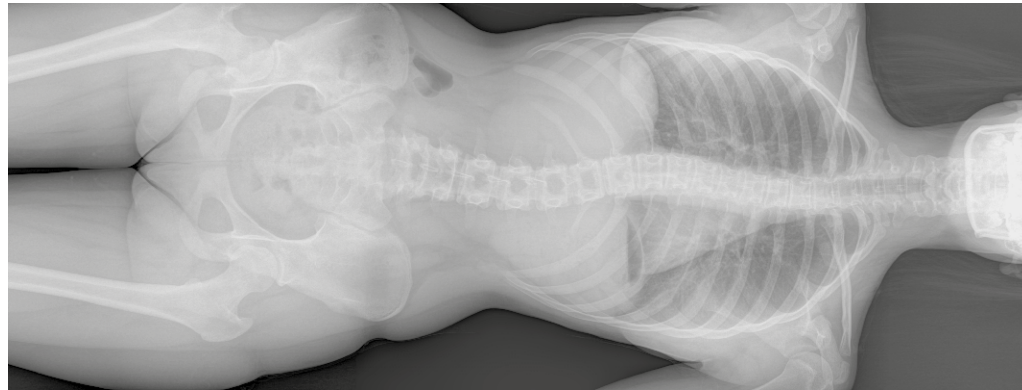
Anatomical Artificial Intelligence, Super Zoom, Bone Suppression, Dual Energy, Software Grid, Tomosynthesis, Stitching



Our strength is in detail

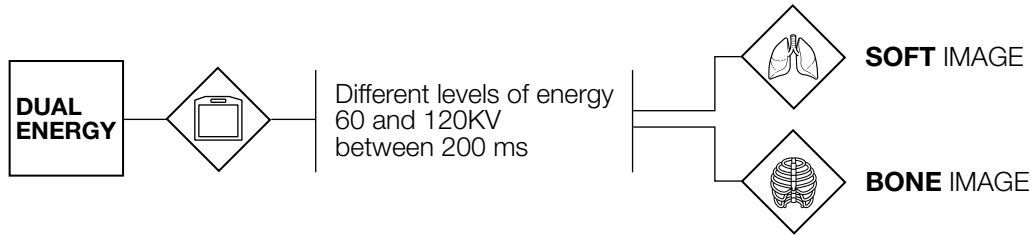
STITCHING

Stitches automatically a series of exposures into a full optimized body image

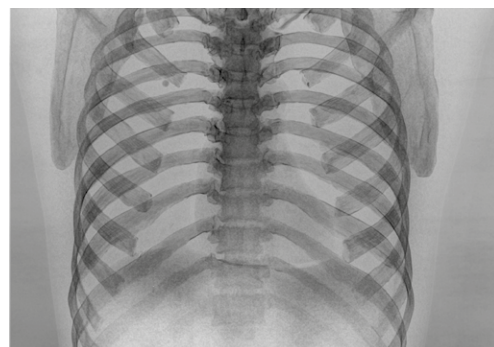


DUAL ENERGY

Allows to separate soft tissue and bones in different images obtained from double chest x-ray exposure



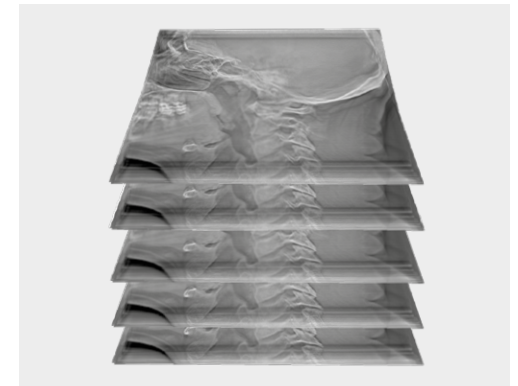
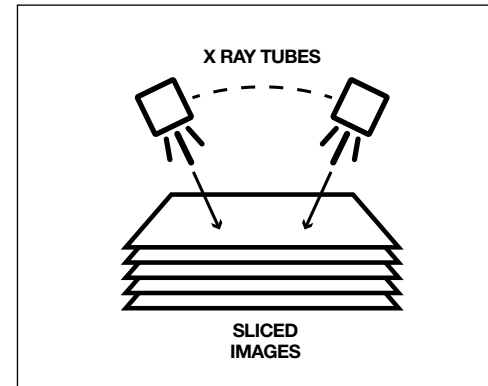
SOFT IMAGE
soft tissue component



BONE IMAGE
the hard tissue component

TOMOSYNTHESIS

Allows the visualization of internal slices, using partial 3D reconstruction of the acquired low dose projections



SOFTWARE GRID

Estimates and removes scatter from images acquired without physical grid enhancing contrast

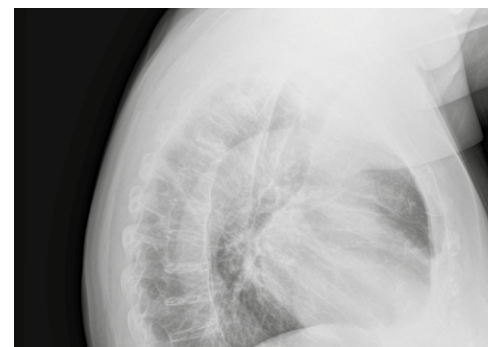
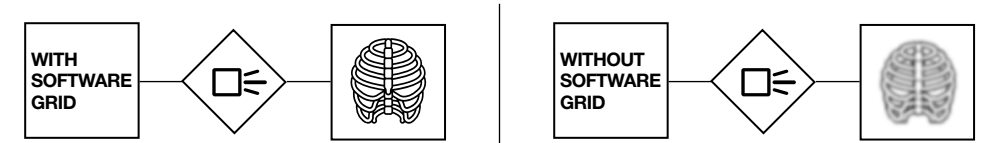


Image **WITHOUT**
Software Grid

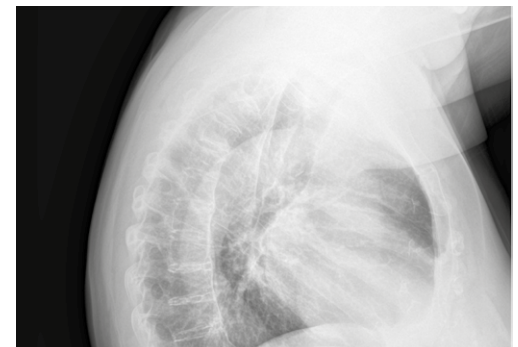
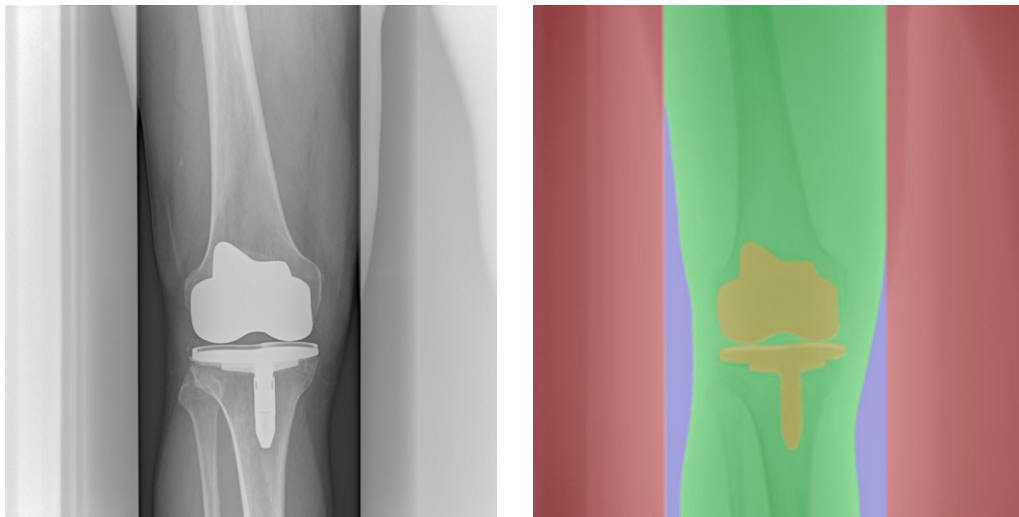


Image **WITH**
Software Grid

Intelligent algorithms

ANATOMICAL ARTIFICIAL INTELLIGENCE

Classifies image regions into anatomical parts, shutters, direct irradiations and metal objects



Anatomical R-evolution

AI improves image quality through automatic anatomical area recognition

Anatomical W/L

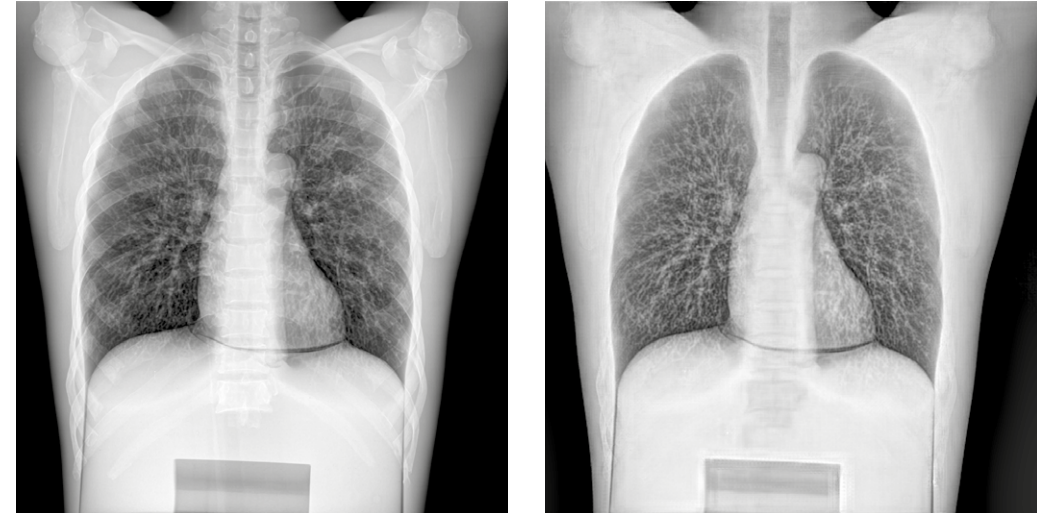
AI evolves fixed preset ROI into anatomical ROI

Anatomical Exposure Index

AI improves the detector dose estimation within the anatomical region (excluding shutters, direct irradiations and metal objects)

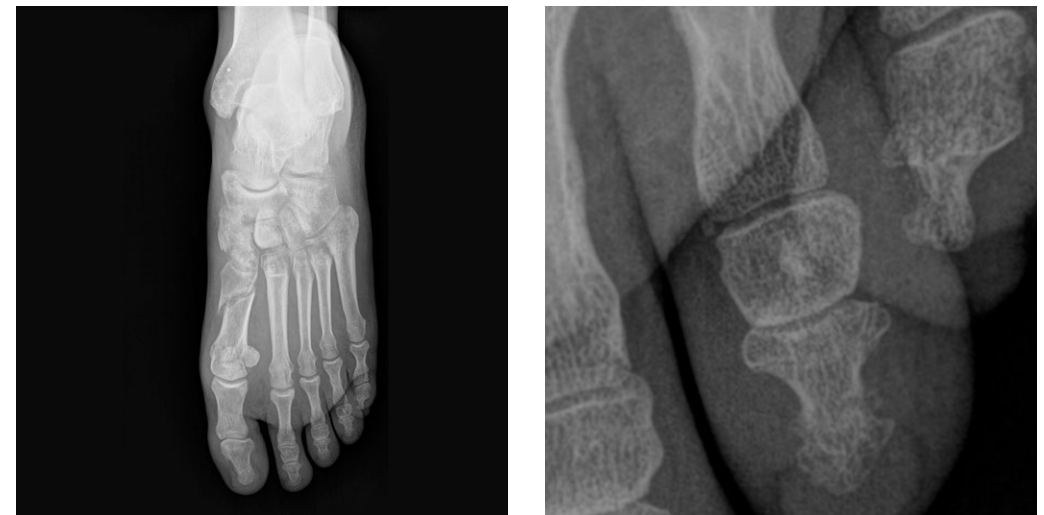
BONE SUPPRESSION

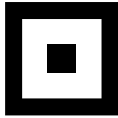
AI automatically removes bones from single shot chest x-ray images



SUPER ZOOM

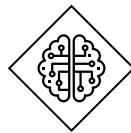
AI increases the sharpness of the details within the zoomed image area





TIRESYA is a concept, a work method, a philosophy.
What does this mean in real terms?

- A single interface for all Digitec software
- User-friendly interface
- Touch-oriented mode
- High quality images
- Automatic image processing
- Easy reading of the images
- Reduced radiation dose for the patient
- Easier diagnoses



Tiresya is the **core** of our **products**

All of Tiresya's properties and functions are applied across the entire range of our products, thus extending our know-how to all the application sectors in which we operate: human, dental and veterinary.

ERACLE | ODIS | TESEO | ARGO | KADMO

