

From radiography to
artificial intelligence



 **ODIS**

DIGITAL RADIOGRAPHY
AND FLUOROSCOPY
ACQUISITION SOFTWARE
FOR C-ARM

 **digitec**
DIGITAL INNOVATION

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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**.

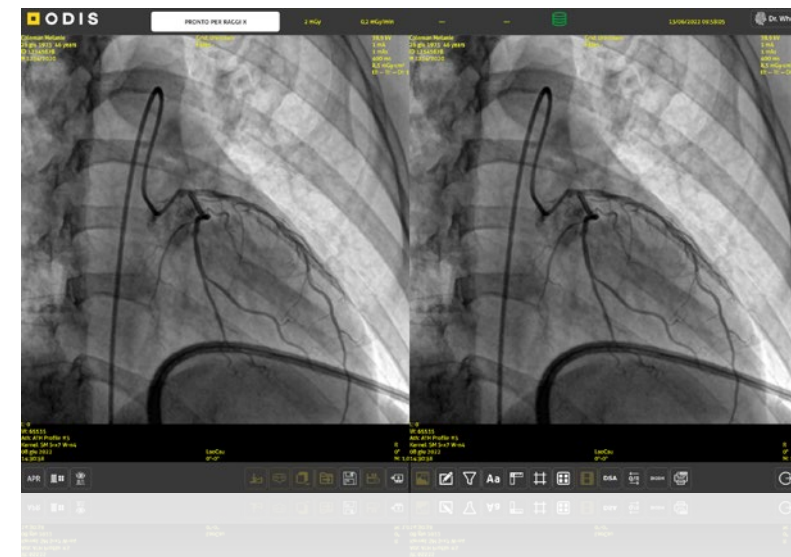
TIRESYA is the core of our products

ERACLE | ODIS | TESEO | ARGO

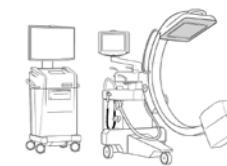


ODIS

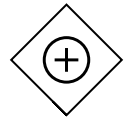
DIGITAL RADIOGRAPHY AND FLUOROSCOPY ACQUISITION SOFTWARE FOR C-ARM



Modality:



C-ARM



Our Plus

WORKSTATION CONSOLE

Our stand-alone software can be supplied on medical or consumer PC (already configured)

MULTI DETECTOR SYSTEM

Compatible with the main 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 (on request)

DICOM 3.0 COMPLIANCE

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

PROPRIETARY ADVANCED PROCESSING ALGORITHMS FOR IMAGE QUALITY

Digital Subtraction Angiography, Quantitative Analysis

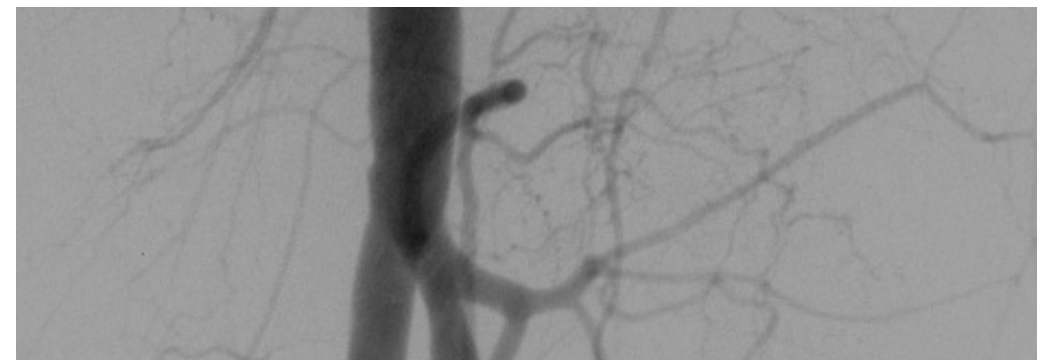


Our strenght is in details

DSA

Digital Subtraction Angiography

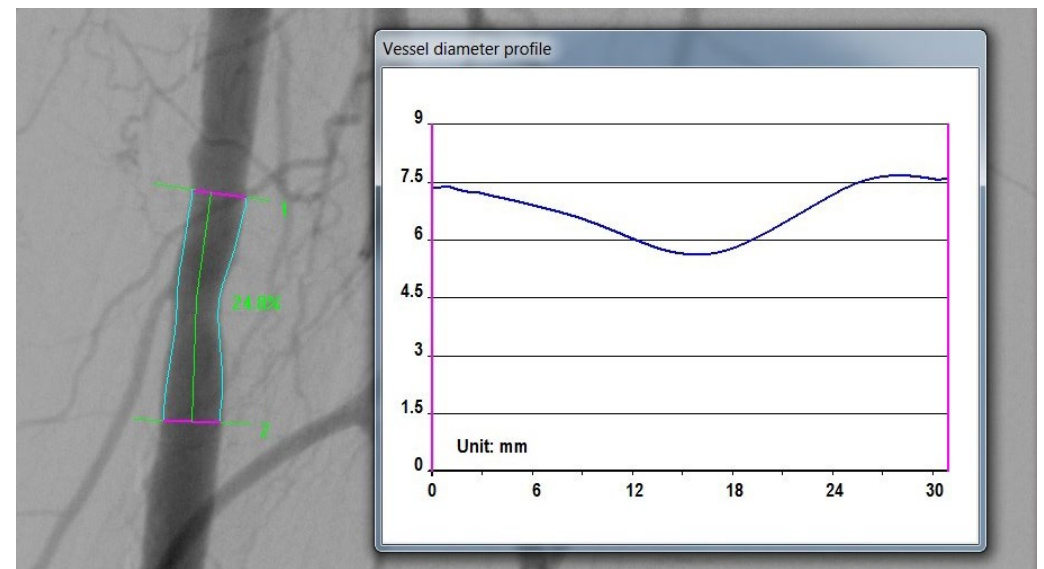
DSA is a multiple shot radiographic technique used in radiology to visualize vessels. Radiopaque structures such as bones are eliminated ("subtracted") digitally from the image, thus allowing for an accurate depiction of the blood vessels.



QA

Quantitative Analysis

Algorithm that performs quantitative analysis in angiographic images, to automatically identify vessels edges and stenosis.





Our future*

Monitor Configuration

Support two configurations: a dual physical monitor (portrait) and a single horizontal (landscape) monitor with virtual separation.

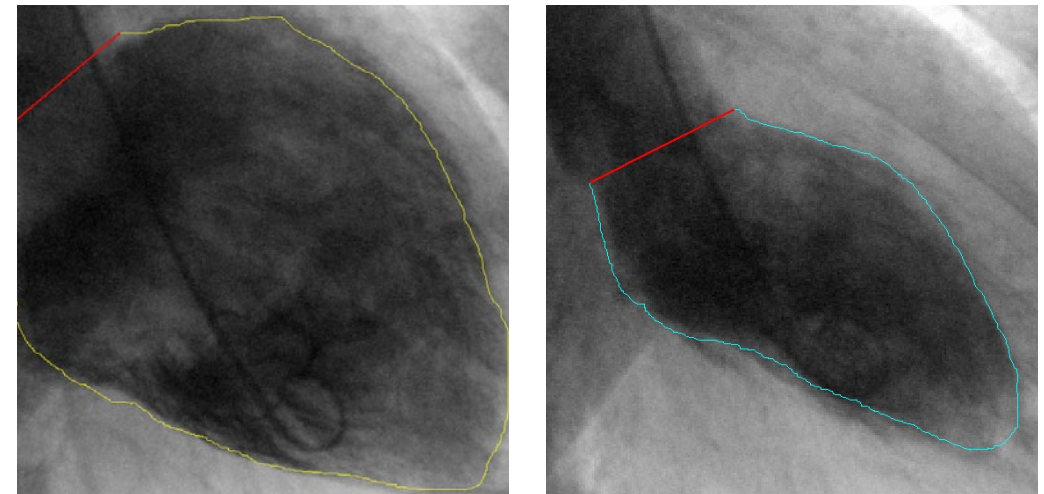


Regardless of the configuration chosen, the image area will be maximized with respect to the available spaces.

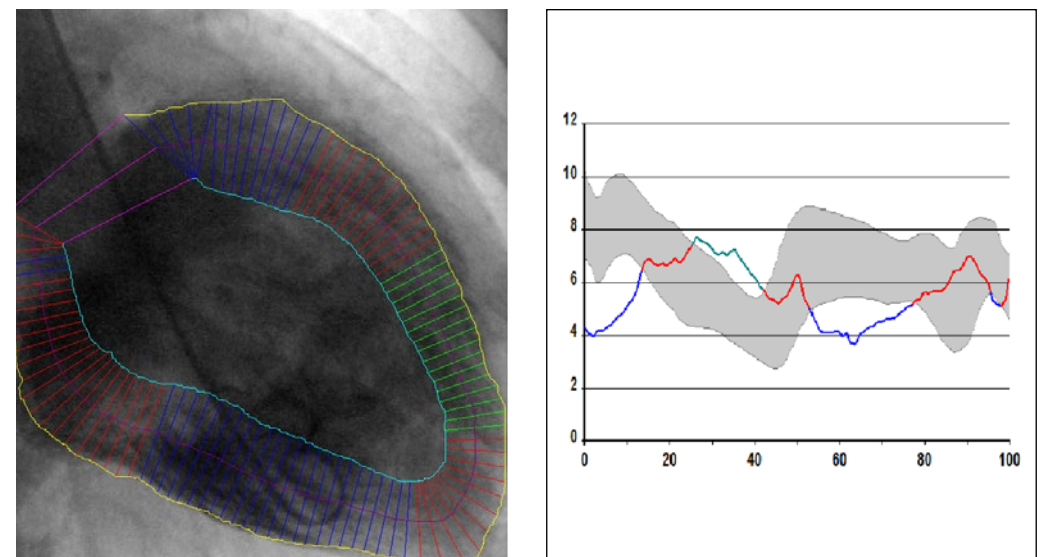
Live images will be displayed on the main monitor while the main operational controls will be available on the reference monitor.

LVA

Left ventricular analysis



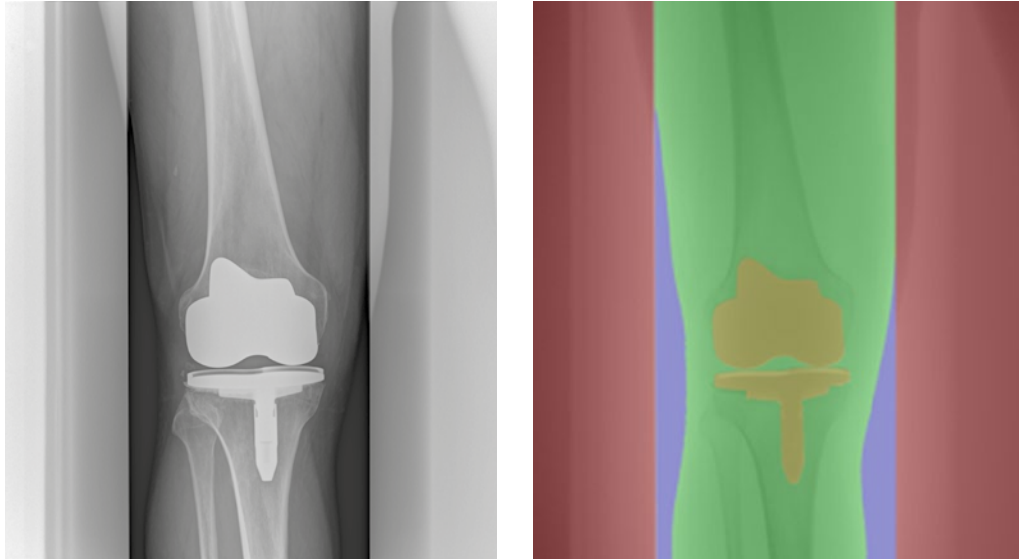
Wall Motion



*Algorithms under development

Anatomical Artificial Intelligence

Artificial Intelligence algorithm that 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 ABC

AI dynamically optimizes exposition parameters detecting and excluding metal objects

Anatomical Exposure Index

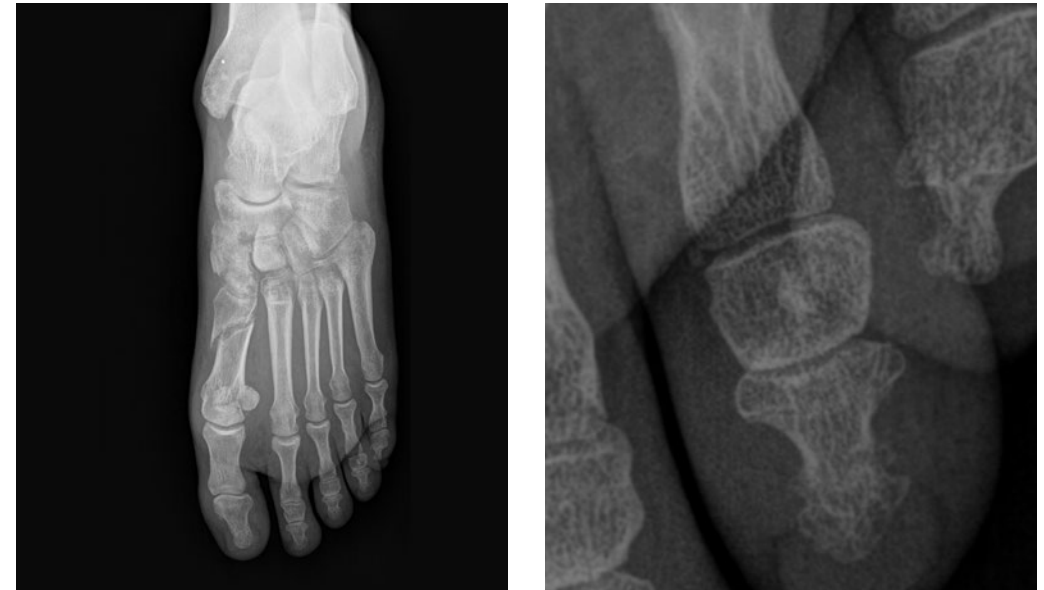
AI improves the detector dose estimation within the anatomical region (excluding shutters, direct irradiations and metal objects)

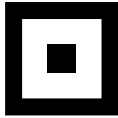
Foreign object recognition

AI recognizes foreign objects, such as metal objects or prostheses

Super Zoom

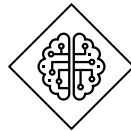
Artificial Intelligence algorithm that increases the sharpness of the details within the zoomed image area





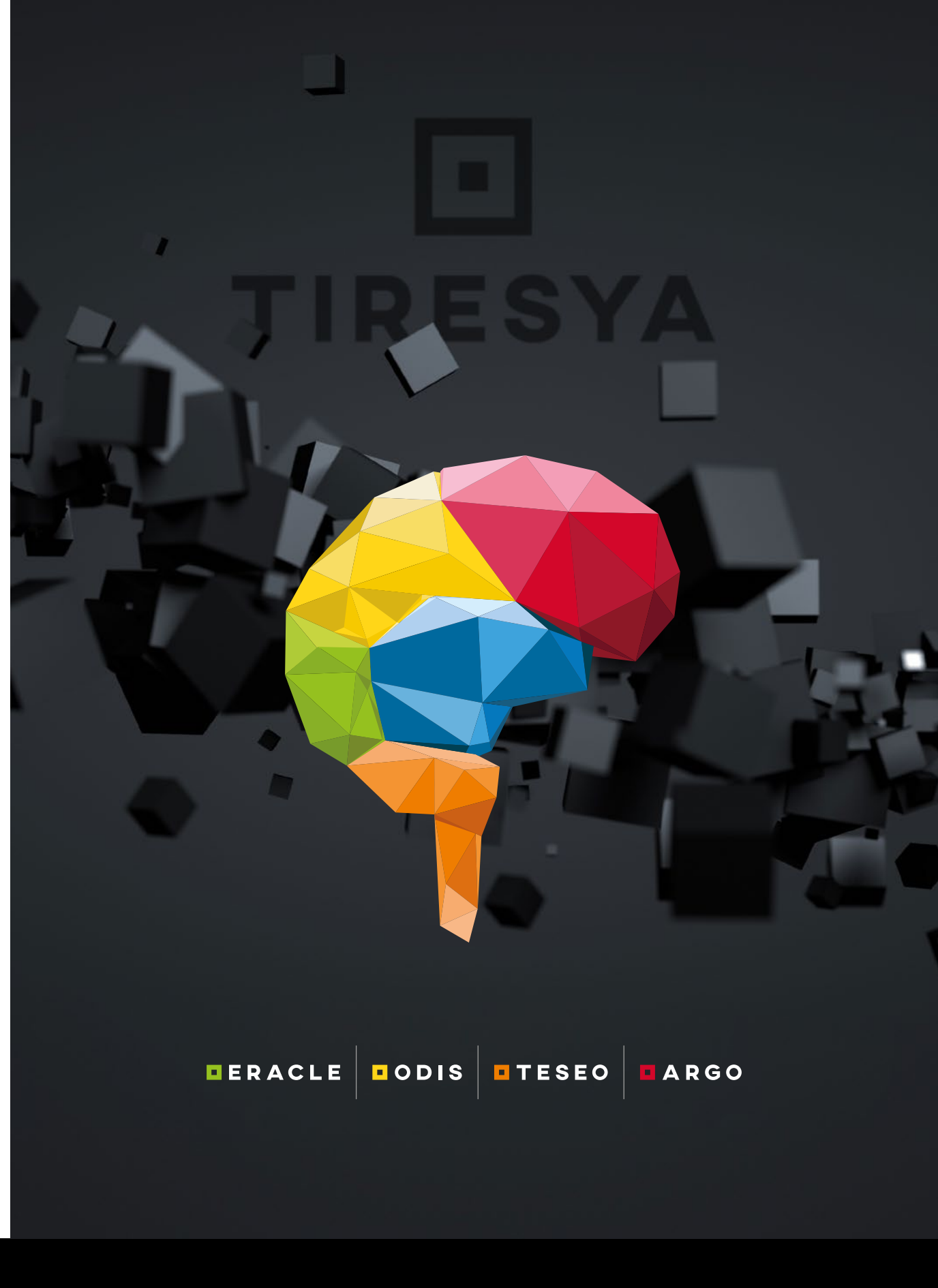
TIRESYA: not only a software platform, but it is also a concept, a work method, a philosophy.
What does this mean in real terms?

- A look and feel interface for all our software
- User-friendly interface
- Touch-oriented mode
- High quality images
- Automatic image processing
- Easy reading of the images
- Optimized radiation dose
- Supports radiographers and x-ray technicians



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.



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 ■ ODIS
 ■ TESEO
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