Leonardo DR nano
The lightweight X-ray backpack solution for security operations

The portable X-ray backpack system for radiographic testing in the security sector (e.g. EOD / IOD) - only with flat panel detector and tablet PC

OR Technology’s portable and digital system Leonardo DR nano delivers high-quality X-ray images ideally suited to detect even the smallest deviations during security operations.

Wireless, compact, lightweight, well-stowed and excellent image quality all describe the portable Leonardo DR nano system. The system weighs only approx. 9 kg and consists of two components: a wireless X-ray detector and a laptop/tablet PC plus accessories. The laptop (optionally tablet PC) complies with the latest standards and is equipped with the professional acquisition and control software, ORsecure. The Leonardo’s straightforward user interface makes it easy for staff to generate excellent X-ray images. The unit is extremely versatile due to its low weight, compact design and practical carrying case.

One version of the Leonardo DR nano system are available:

- **Leonardo DRw nano 1417**: mobile X-ray system with wireless X-ray detector, format 35 x 43 cm
System benefits

**Wireless:** quickly deployable and hassle free

**Small:** weight only approx. 9 kg (including laptop, accessories and detector), easy to transport – space-saving placement of the system components in a sophisticated, sturdy backpack

**Quick** to set up – once on site, the X-ray solution can be assembled quickly and easily

**Flexible:** backpack can also be converted into a carrying bag – shoulder straps can be hidden quickly and easily

**Perfectly** packaged: tidy and safe transport - components are stored in precisely fitting compartments that can be closed separately, all-round robust insulation material has a shock-absorbing effect.

**Excellent:** high-quality X-ray detector based on a caesium iodide (CsI) scintillator – top image quality even at low X-ray doses

**User-friendly:** self-explanatory OR Technology acquisition and control software ORinspect for non-destructive testing – easy operation even with changing personnel

**Fast:** shortly after taking the shot (6 - 8 seconds), the X-ray image is already available for viewing and diagnostic evaluation

**Accessibility:** integrated acquisition and control software offers a worldwide, fast and cost-effective exchange of information (via cloud or email) – in compliance with all safety regulations

Detailed information can be found at [www.or-technology.com](http://www.or-technology.com)
Dimensions

- Sufficient space for the 14" x 17" flat panel detector with or without a protective cover and tablet PC
- Weight: only approx. 8 kg (complete with notebook, accessories and 14" x 17" flat panel detector)
- External dimensions 50 x 49 x 12 cm
- Padded and fitted with a sturdy protective frame
- Water repellant – safe in rainy conditions
- Many additional compartments to store the detector's battery charger, power cable of the tablet PC and other accessories
- Including shoulder strap (can be used as handle bag – the straps can be stored)

Safe and sound:

- More information about Leonardo DR nano can be found here: [www.or-technology.com](http://www.or-technology.com)
- The product video of Leonardo system you can be found here: [www.or-technology.com/leonardo-nano-video](http://www.or-technology.com/leonardo-nano-video)
Advantages of acquisition and control software ORinspect

- Modern graphical user interface (GUI) adaptable to almost any language, touchscreen operation – to ensure quick and efficient work and a smooth workflow

- Free configuration of testing objects already in the system (stipulations for testing images incl. X-ray value settings)

- Safe and quick registration of ad hoc tests / inspections (spontaneous test without detailed advance planning)

- Allows switching between planned examinations of a test object

- Images can be appended to records even after examinations are complete

- User-defined macros for recurring examinations

- To document the testing / inspection setup, photos can be attached to the test images

- Wireless remote control of digital X-ray system, with display of worklist, image thumbnails and much more...

- Intuitive multi-image concept for SNR improvement

  Automatic and manual stitching (combination of several images)

Detailed information can be found at www.or-technology.com
Standard components of the Leonardo DR nano

Transport backpack incl. accessories bag for chargers
- For 14” x 17” detectors with or without protective cover
- External dimensions 50 x 49 x 12 cm
- Padded and fitted with a sturdy protective frame including shoulder strap
- All important accessories have their own custom-fit compartments with separate closure

Tablet PC or Notebook
CPU Intel®, 8 GB RAM, 256 GB hard drive,
1920 x 1080 resolution, 15,6” display, USB 3.0,
wireless LAN 802.11 b/g/n

Direct radiography detector
35 x 43 cm (14” x 17”) wireless
Wireless X-ray imaging! Fits into an existing X-ray system without requiring modification
(in conformity with the X-ray film cassette), fast charging, long life batteries

Battery charger including batteries
- fast charging, long life batteries, including battery charger
- charging time of battery: 3 hours

Leonardo DR nano software package
with ORinspect, the professional acquisition and control software for
the non-destructive X-ray testing with modern graphical user interface with
basic software included:
- ORinspect DICONDE Send SCU
- ORinspect DICONDE Object CD
- ORinspect Cognition Optimised Processing

Optional components to upgrade the Leonardo DR nano system

Protection case
Available in various sizes for detectors 35 x 43 cm (14” x 17”)
and 24 x 30 cm (10” x 12”), including or excluding grid

Amadeo P high-frequency X-ray units
Portable high-frequency X-ray units for high-quality X-ray images:
Low weight and user-friendly operation enable various fields of
application indoors and outdoors

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OR Technology
www.or-technology.com | X-perts in X-ray

OR Technology (Oehm und Rehbein GmbH), 18057 Rostock, Germany, Neptunallee 7c
Tel. +49 381 36 600 500, Fax +49 381 36 600 555
www.or-technology.com, info@or-technology.com

Info hotline: +49 381 36 600 600