



 OR Technology

The **gold standard**  
among the X-ray cases  
for the security sector

## Leonardo DR mini III

### Large images

Anti-glare 21.5" (54.6 cm)  
Full HD touchscreen monitor

### Extremely long battery life

Up to 500 shots without charging

### Very low case weight

Despite large HD monitor  
only 9.5 kg (plus detector)

### Razor-sharp X-ray images

thanks to globally proven image  
processing

### Flexible detector sizes

Sufficient space for all 25 x 30 cm  
and 35 x 43 cm X-ray detectors





Leonardo DR mini III

# The gold standard for mobile security applications



The case can be comfortably transported by the **handle** or with the **carrying strap**

**Intelligent power saving mode** by folding down the monitor → You can continue working immediately within a defined time frame or the system shuts down automatically



The integrated monitor is brought into the working position with a flick of the wrist

Robust, **extremely durable suitcase** made of the latest high-tech composite material with shock-absorbing edge reinforcement, splash-proof (IPX4)

**Unbeatable image quality** through automatic, intelligent image processing

**Very low case weight** of only 9.5 kg with large Full HD touchscreen monitor (without detector)



Easy removal of the X-ray detector from the **padded transport compartment**



Sufficient space for all **25 x 30 cm** and **35 x 43 cm** X-ray detectors incl. protection box

**Anti-glare 21.5" (54.6 cm) Full HD touchscreen** monitor for large X-ray images and comfortable diagnosis

**USB connection**

Optional **accessory bag** for transport-safe packaging of spare batteries, chargers, etc.



Operation via **intuitive acquisition and control software** *ORsecure* (developed by OR-Technology) for non-destructive X-ray inspection



Power pack can also be operated with **external power pack** without batteries

**Status display** of the overall system in 4 colours for direct visualisation of the workflow

**Standard PC keyboard**



**Replacing the batteries during operation**, no need to shut down the system

Integrated acquisition and control software offers worldwide, fast and cost-effective **information exchange via cloud or email**

System enables continuous, **cordless work for 8 hours with up to 500 X-ray exposures** (in double-battery operation; 18 Volt / 5 Ah)

Unlimited duration possible

## Long running times through intelligent battery concept

A completely new concept for the power supply was developed for this X-ray case. It allows you to choose the batteries depending on the purpose so that you can X-ray for 3.5 or 8.5 hours or unlimited.

Batteries can be changed during operation.

→ **Advantage:** No shutdown of the system is necessary.

Batteries are not discharged when the case is switched off.

→ **Advantage:** Case is ready for immediate use, even if it has not been used for a long time.

Unit automatically switches to stand-by mode when the lid is closed.

→ **Advantage:** After changing the location, the computer does not have to be restarted.

The standard rechargeable batteries can be bought in almost any DIY store worldwide.

→ **Advantage:**

- no expensive special parts with complex logistics
- choice of large or small batteries possible - thus saving weight at the expense of running time can be realised
- With low financial investment, several batterysets can be used and, depending on requirements, an unlimited runtime can be achieved



### Battery set (small)

18 Volt/2 Ah for a runtime of approx. 3.5 hours and approx. 200 X-ray exposures (0.35 kg/battery)

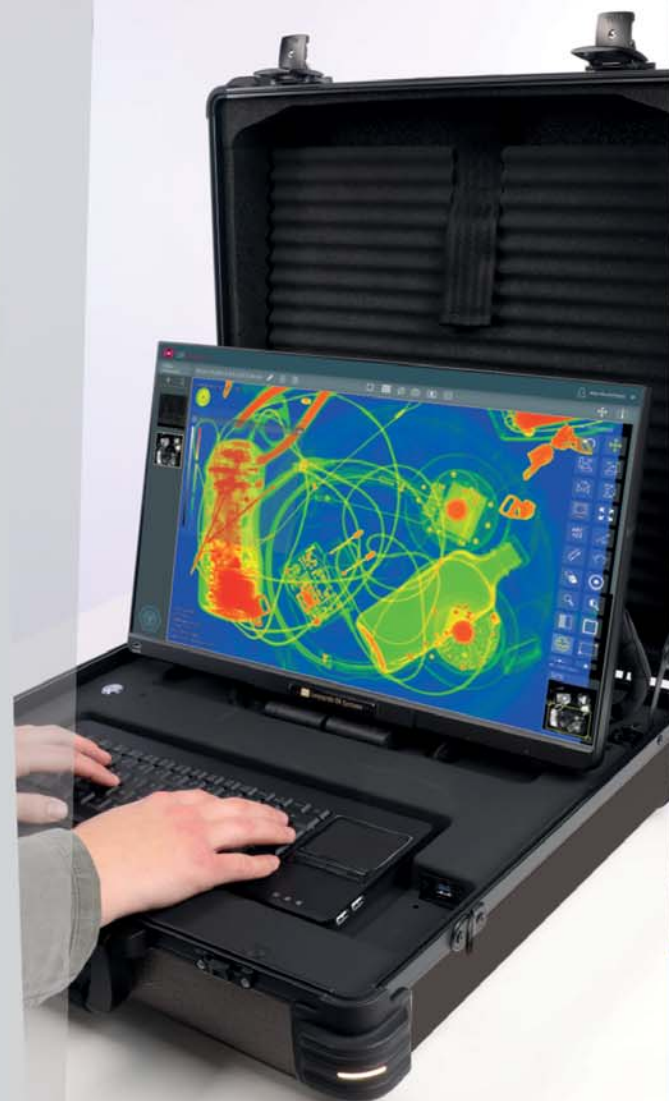


### Battery set (large)

18 Volt/5 Ah for a running time of approx. 8.5 hours and approx. 500 X-ray exposures (0.62 kg/battery)

# Advantages of the acquisition and control software

- Very simple, modern user interface (GUI) for optimal workflow without complex menu navigation - **software is ready to record with one click**
- Can be operated via **touch screen** - this guarantees a fast and efficient work
- Software for mobile individual workstations as well as for work in small and large networks
- **Powerful image processing** - material- and application-specific optimisation according to your needs
- **Image available in full-screen evaluation mode** immediately after capture
- **Simple and reliable evaluation** through specially developed filters and tools (e.g. false colour display (pseudo colour), intelligent image inversion, image annotations, annotations, image manipulation, etc.)
- **Free configuration of the inspection objects** already contained in the system (specifications for inspection images incl. X-ray setting values)
- Intuitive concept for multiple exposures for SNR improvement (if detector supports multi-exposure)
- Safe and fast acquisition of ad hoc inspections without prior detailed planning
- Allows switching between planned examinations of a safety-relevant object to be inspected
- Allows subsequent **addition of images** to examinations
- Adding photos to the test recordings for documentation of the test/inspection as well as saving them in DICOM format
- Possibility of both complete individualisation (branding) and design (layout) of the user interface (GUI)



# Integrated wireless X-ray detector with long battery life

The intelligent, wireless NDT X-ray detectors, including those from our XenOR series, guarantee you an optimal X-ray result.

Choose between the following detectors\*:

- **XenOR 35-100WF** (35 x 43 cm [14" x 17"], wireless, 100  $\mu$ m, 16 bit, battery capacity 8.5 h, weight approx. 3.0 kg)
- **NDT 1417MA** (35 x 43 cm [14" x 17"], wireless, 100  $\mu$ m, 16 bit, battery capacity at least 6 h, weight approx. 4.2 kg)
- **NDT 1012MA** (25 x 30 cm [10" x 12"], wireless, 125  $\mu$ m, 16 bit, weight approx. 2.1 / 4.2 kg, narrow dead space edge (< 7 mm))

\* Further sizes and variants on request



# Shockproof casing for the X-ray detector

The case lid offers sufficient storage space for the protected transport of a 35 x 43 cm X-ray detector

X-ray detectors up to a size of 35 x 43 cm find a well-padding place in the top shell of the case. You can loosen the fastening with one hand and remove the detector safely.



All advantages  
at a glance

## Leonardo DR mini III

# Standard components



### Compact, lightweight X-ray suitcase

- Extremely durable case made of the latest high-tech composite material with shock-absorbing edge reinforcement, splash-proof (IPX4), lockable
- Total weight: approx. 9.5 kg (includes complete X-ray case, monitor and and electronics, plus X-ray detector)
- Anti-glare 21.5" full HD touch screen monitor and standard PC keyboard
- High-performance PC with current Windows version
- Carrying strap for comfortable transport
- LED status display of the entire system in 4 colours
- Padded transport compartment for one detector, max. 14" x 17"
- Dimensions: approx. 545 x 515 x 194 mm (W x D x H)
- Connections: 1 x USB, 1 x LAN, 1 x WLAN, 1 x Bluetooth, 1 x DC socket



### X-ray detector 25 x 30 cm (10" x 12") wireless

Various types of X-ray  
detectors on request

- wireless detector in compact and robust design
- high radiation resistance
- wide range of applications

or

### X-ray detector 35 x 43 cm (14" x 17") wireless

Various types of X-ray  
detectors on request

- wireless detector in compact and robust design
- high radiation resistance
- wide range of applications



### Leonardo DR mini III software package

with *ORsecure*, the professional acquisition and control software for the non-destructive X-ray testing with modern graphical user interface with basic software included:

- *ORsecure* DICOS Send SCU
- *ORsecure* DICOS Object CD
- *ORsecure* Cognition Optimised Processing



### Battery set (optionally small or large)

- Battery set (small) 18 Volt/2 Ah for a runtime of approx. 3.5 hours and approx. 200 X-ray exposures (0.35 kg/battery)
- Battery set (large) 18 Volt/5 Ah for a running time of approx. 8.5 hours and approx. 500 X-ray exposures (0.62 kg/battery)

## Optional components for the Leonardo DR mini III system

### Accessories bag

für Transport und Aufbewahrung von Ersatz-Akkus, Ladegeräten, Kabeln, Netzteil etc.

### High-frequency X-ray units

Portable monobloc X-ray units for high-quality X-rays: Low weight and simple operation guarantee versatile use

### Accessory case with 2 tripods (2 versions)

- Case with small tripods up to 130 cm height and space for a GoldenEngineering incl. batteries, accessories and radio release
- Case with 2 large tripods up to 250 cm height, panorama head, extension arm with plate, clamp for extension arm, detector holder for 14x17"

### Other accessories

- LAN cable reel
- OR Dual Link for a Golden Engineering Generator Rev. 3 or higher
- and much more on request

### Specifications subject to revision without notice

The editor strives to impart correct and up to date information. The provided specifications are based on current knowledge and are subject to revision without notice. This brochure is subject to correction. The editor assumes no responsibility for the information being up to date, correct and complete.

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# OR Technology

[www.or-technology.com](http://www.or-technology.com) | X-perts in X-ray



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Detailed information on the Leonardo DR mini III can be found at [www.or-technology.com](http://www.or-technology.com)

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