



 OR Technology

The **gold standard**
among the X-ray cases
for the NDT 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 material and quality testing (NDT)



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** *ORInspect* (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)

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 μ m, 16 bit, battery capacity 8.5 h, weight approx. 3.0 kg)
- **NDT 1417MA** (35 x 43 cm [14" x 17"], wireless, 100 μ 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 μ 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

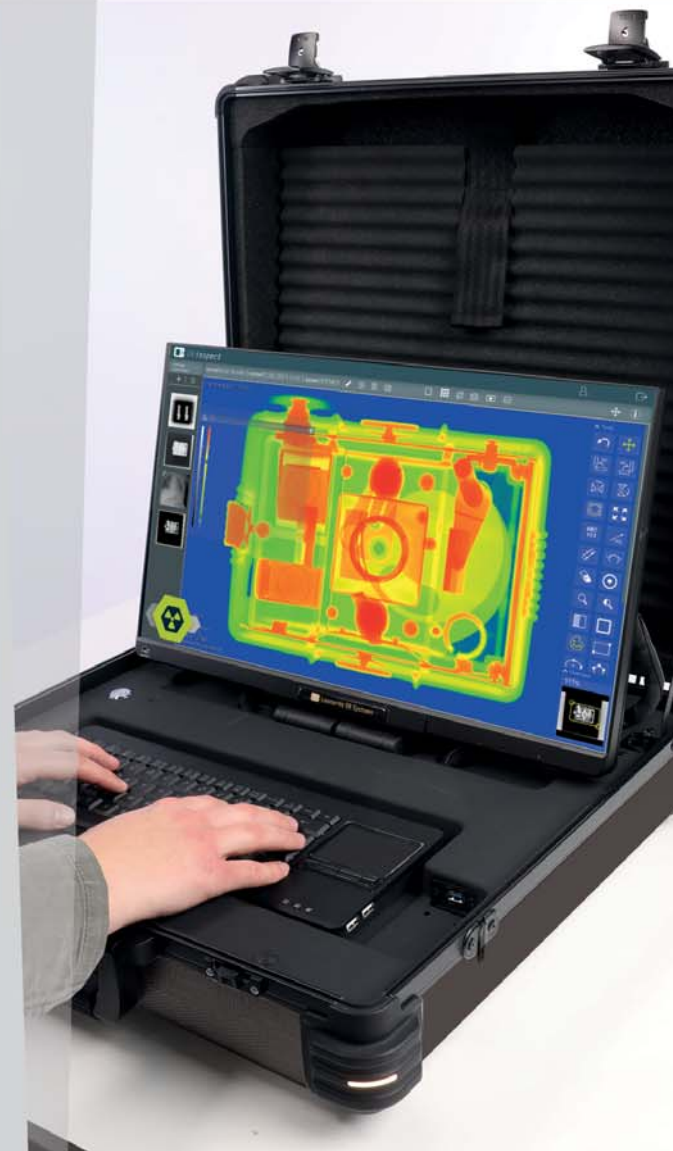
The case lid offers sufficient storage space for the protected transport of a 35 x 43 cm X-ray detector

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.



Advantages of the acquisition and control software

- Very simple, modern user interface (GUI) for an optimal workflow without complex menu navigation – **software is ready to record with one click**
- Can be operated via **touch screen** – this guarantees fast and efficient work
- Software suitable for mobile individual workstations (laptop) as well as for working in small and large networks
- **Powerful image editing processes** – 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 (pipe wall thickness measurement, SNRn determination according to ISO 17636, various ROI tools, greyscale profile, freely configurable false colour tool and much more)
- Intuitive concept for **multiple exposures for SNR improvement** (if detector supports multi-exposure)
- Safe and fast acquisition of ad hoc inspections (spontaneous inspection without prior detailed planning)
- Allows switching between planned examinations / inspections of a test object
- Allows subsequent **addition of photographs** to examinations / inspections
- Photos can be assigned to the test recordings to document the test situation / inspection
- Possibility for complete individualisation (branding) as well as design (layout) of the user interface (GUI)



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 33 cm (13" x 10") 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 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



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

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Detailed information on the Leonardo DR mini III can be found at www.or-technology.com

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