# X-DRS Floor Basic

Floor-guided X-ray system with detector
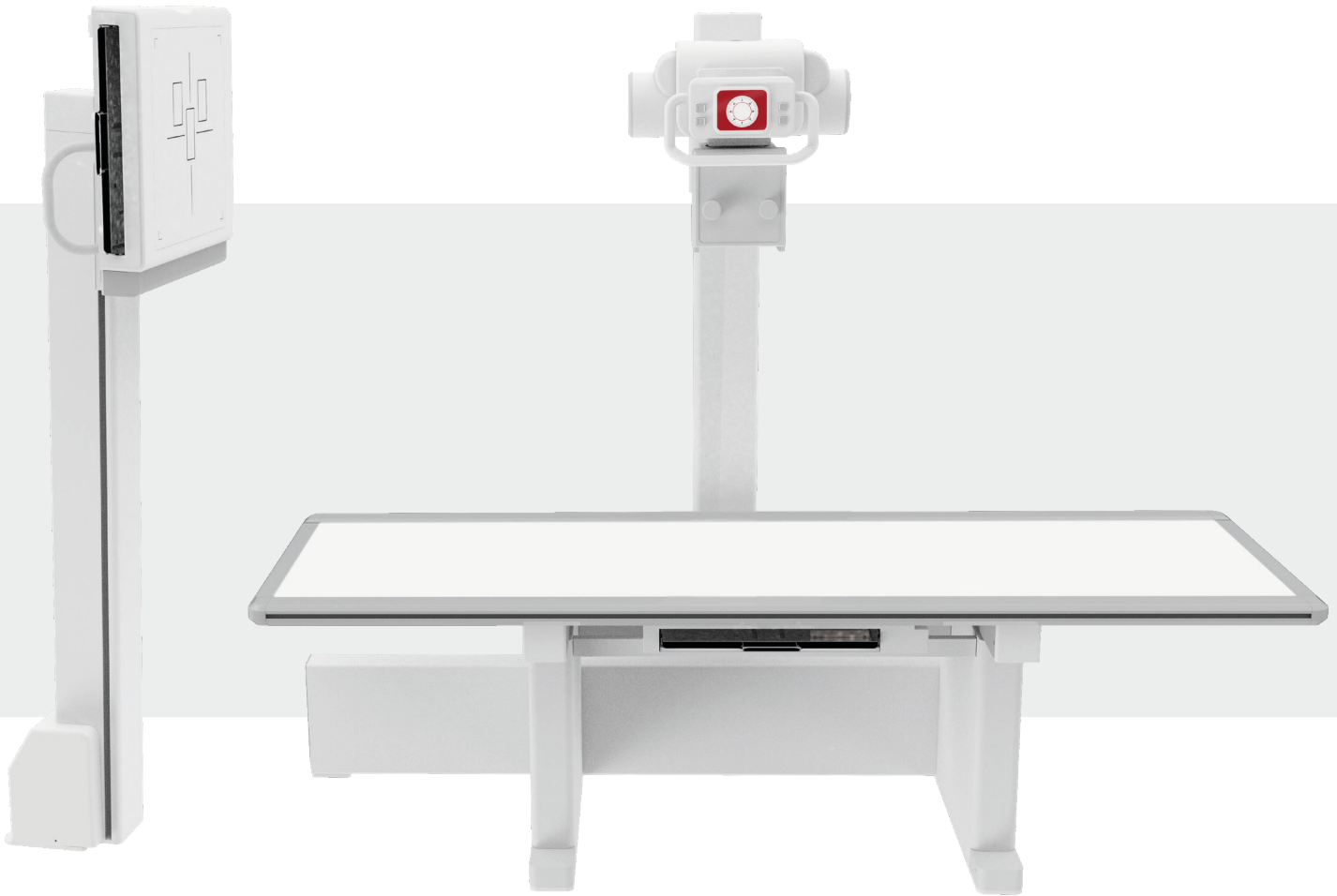
# X-DRS Floor Basic

Optional wall mount

## All-in-one X-ray system with maximum performance

The X-DRS Floor Basic was developed as a high-end system specifically to satisfy the needs of small animal clinics where imaging is one of the main focus areas and which therefore have superior demands in terms of X-ray image quality and comfort.

Our wholly digital X-ray system was designed as an all-in-one optimal solution. The central element is our intuitive EXAMION X-AQS software at the control workstation.

## Intuitive operating software

Our software comprises animal species-specific organ programs. Selecting an organ determines the exposure values of the X-ray system, the operation of the detector, optimal image processing and also the correct labeling of the X-ray image. **All settings with one click**. The X-ray image is displayed within seconds.

The X-ray viewer display function is fully integrated within the control workstation via the software platform. This enables viewing and evaluation directly at the device. All measurement functions are also readily available there.

The permanent image file archive can also be supplied and integrated into the control workstation. If you already have an image archive, we can easily connect the system via DICOM interface.

The control computer of the system is a separate unit. Depending on the space available it is placed either in the X-ray room or in a separate control room during installation.

## Superior image quality

The detector's advanced cesium iodide technology, optimal coordination with the X-ray system and advanced EXAMION image processing ensure superior image quality.

The MetaGrid software module serves to suppress so-called scatter radiation. Scatter radiation leads to a loss of contrast and detail and thus to a lower image quality. This can now be easily eliminated using state-of-the-art scatter reduction algorithms. Previously, a grid which had to be installed between the animal and the detector was used to eliminate scatter radiation. The disadvantage of a grid is that it requires an increase of the radiation dose for each exposure. MetaGrid modular software not only increases image quality, but also offers enhanced radiation protection for operators.

## Superior performance

The system is equipped with generators with a capacity of 50 kW. This provides sufficient reserves for large objects.

High generator power reduces the exposure time required to produce an image. Especially with very large dogs, there would otherwise be a risk that the animal's breathing or movement would result in blurred images.

The X-ray source is designed to match the generator and has a particularly high thermal capacity. Since only a small part of the energy within the X-ray source is converted into X-ray radiation during the exposure, with the majority being converted into waste heat, the high thermal capacity reliably ensures that the system can also handle high numbers of X-ray exposures without any problems.

## Maximum number of positioning options

- The main feature of the system is the large tabletop. Nevertheless, the system can easily be brought into an optimal position for the examination. In addition to the floating tabletop, the X-ray tube can also be moved, providing multiple options for setting up the desired examination position.

- The X-ray tube and the detector tray on the table can be mechanically coupled. When the coupling is engaged, they are always correctly aligned with each other without any further action on the part of the operator being required.

- **Optionally**, a wall unit can be added to the X-ray system, making it possible to take pictures of animals in an upright position. With this configuration, the X-ray tube can be swiveled towards the wall unit.

# Technical specifications

## Column stand

| | |
|---|---|
| **Movement range longitudinal (column stand)** | 127.6 cm<br>Manual movement, electromagnetic brakes |
| **Movement range vertical (focus)** | 136.5 cm<br>Manual movement, electromagnetic brakes |
| **Rotation X-ray tube** | ±135°<br>Manual rotation, electromagnetic brakes |
| **Tracking** | Mechanical stand grid tray coupling at the table |

## Wall mount

| | |
|---|---|
| **Movement range vertical (bucky)** | Min.: 40 cm<br>Max.: 176.5 cm<br>Manual movement, electromagnetic brakes |

## 4-way X-ray table

| | |
|---|---|
| **Tabletop dimensions** | 228 cm x 80.6 cm |
| **Tabletop movement range** | Longitudinal: 50 cm ± 1 cm<br>Transverse: 8.5 cm ± 1 cm |
| **Range of movement of the detector** | 33.4 cm ± 1 cm |
| **Max. Patient weight** | 250 kg |
| **Brakes for table top** | Electromagnetic brakes, to be released via foot-operated light barrier |

## Additional specifications

| | |
|---|---|
| **Generator** | CPI CMP 200 DR, 50 kW, max. 630 mA, max. 150 kV, AEC, manual switch,<br>3 phases, 400 V<br>Alternative generators on request |
| **Tube** | Varex RAD-14, focus 0.6 / 1.2 mm, 300 kHu, max. 150 kV, incl. high voltage cable,<br>weight 17.4 kg<br>Optional: RAD 21, RAD 60 |
| **Collimator** | Manually rotatable, LED lamp, integrated timer, laser alignment |
| **AEC** | Two 3-field measuring chambers with cable |
| **DAP (optional)** | Dose area product meter or DFP calculation<br>Automatic integration into the X-AQS X-ray journal |
| **Warranty** | 5 years warranty on detectors<br>1 year warranty on all other components<br>Extended warranty on request |
| **Certification** | CE 2460 |

# X-DR WiFi - detectors in different sizes

EXAMION detectors are at the heart of most of our X-ray solutions. They ensure maximum image quality and speed up your workflow:

✓ Advanced cesium iodide scintillator technology provides high resolution and low image noise.

✓ The detectors transmit the image directly to the control computer without any additional steps.

✓ This offers the quickest way to capture an X-ray image.

**Data can be transmitted** via WiFi, and power can be supplied by battery. If the detector is to be permanently installed, the corresponding cabling for the mains power supply is available as an option.

In terms of technical features, various options are available for the **X-DRS Floor Basic** systems:

• A single detector can be used either in the bucky table or wall stand, as needed.

• With a two-detector solution, both the tabletop bucky tray and the wall-mounted device are equipped with their own detector. This avoids time-consuming swapping of the detector between the tabletop and the wall-mounted device.

## Our most popular models at a glance

|  | X-DR L WiFi | X-DR L WiFi Premium | X-DR XL WiFi | X-DR XL WiFi Premium |
|---|---|---|---|---|
| **Pixel pitch** | 150 µm | 100 µm | 139 µm | 100 µm |
| **Pixel matrix** | 2,304 × 2,800 | 3,500 × 4,300 | 3,072 × 3,072 | 4,267 × 4,267 |
| **Weight** | 3.4 kg | 2.8 kg | 4.6 kg | 3.4 kg |

# X-AQS Software – Acquisition, control, archiving

The EXAMION X-AQS software provides a universal solution for X-ray image acquisition, processing and archiving, allowing you to operate a wide range of CR digitizers, DR flat-panels and X-ray generators and processes. The software is available as a DICOM modality for connection to your existing image archive, but also as a system solution with X-AQS PACS with uniform operation at viewer workstations. The software can be adapted and expanded as per your needs.



**Order management**
- Full touchscreen operation
- Easy selection of animal species
- Freely-configurable organ lists per animal species

**Image acquisition**
- State-of-the-art X-AQS image processing
- Consistent operation with different image sources, even when switching between CR and DR systems
- Digital X-ray log

**Post-processing**
- Extensive image post-processing functions
- Measuring tools already available at the acquisition workstation
- Export to DICOM and other formats via USB stick, DVD and email

**Additional functions with X-AQS image archive**
- Client software for any number of viewer workstations
- Integration of peripheral devices such as ultrasound, endoscopy, CT and MRT

**Web client**
- Full-featured web client not only for image viewing but also, for example, for patient management and order placement
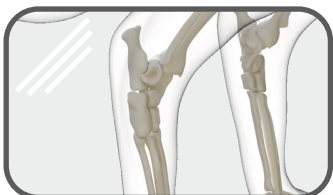


The X-AQS with its user-friendly operating interface is the central controlling unit for digital X-ray. Simple, self-explanatory buttons allow you to achieve perfect X-ray images with just a few clicks. We offer you a universal software platform for long-term usability that is constantly refined and continuously validated by users.

# Information about EXAMION GmbH

EXAMION is a global provider of digital radiography solutions for human and veterinary medicine. For more than 30 years now we have been guided by our credo "everything from a single source" as a competent partner to your customers for purchase planning, installation and after-sales services.

Our advice on technical and commercial questions is always based on the individual customer's respective requirements and the circumstances facing their particular medical practice or clinic. Each product purchase quotation is individually prepared by our experts with the specific customer in mind.

We currently service more than 7,000 systems most of which are permanently installed in hospitals and medical practices, but some are also used for mobile applications. The proprietary EXAMION X-AQS software for device operation, image processing, evaluation and archiving standardises operation and controls and ensures an efficient workflow. In addition to digital radiography, our product portfolio includes digital imaging systems as well as systems for mammography and X-ray therapy.

We have more than 150 employees who work together for our customers throughout Germany and at four European locations in Belgium, Poland, Portugal and Switzerland. We collaborate with a constantly growing network of service and sales partners worldwide.

## Benefit from long-standing experience

| X-ray system | Image archive |
|---|---|
| Digital system | Service |
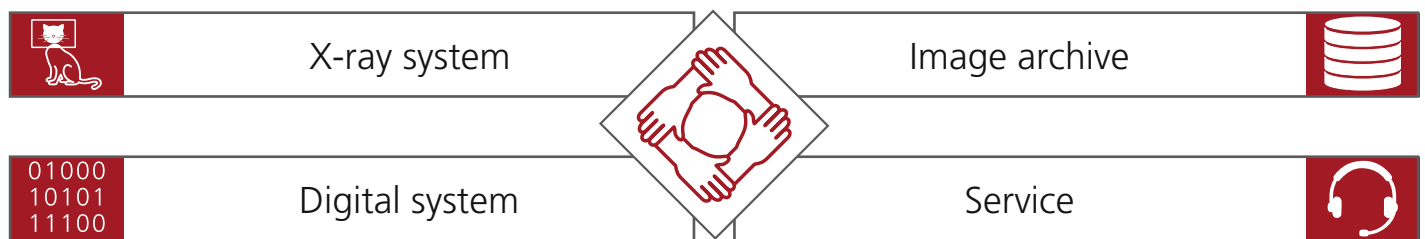
## Your local sales and service partners

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