



Digital x-ray systems

# XDR1



### Digital radiography in veterinary medicine

### easyIMAGE and XDR1 – state-of-the-art technology with a unique workflow

#### Digital radiography in veterinary medicine

Digital radiography is one of the technologies most important to the future of veterinary medicine. High environmental friendliness, comprehensive diagnostic possibilities, excellent image processing and an efficient workflow, all speak for the application of this digital technology. Two systems have managed to establish themselves in the last few years: image plate readers (CR) and flat panel detectors (DR).

In the case of image plate readers, a special image plate is exposed using x-rays and subsequently read out by a scanner. The read-out information is then digitally imaged. In the case of flat panel detectors, the x-rays are directly processed as digital image data by a special semi-conductor detector plate. The final x-ray can be viewed instantly on the screen.

#### Flat panel detectors – a superior technology

CR und DR systems are generally mutually applicable in veterinary medicine. Whether for small animals or horses, stationary or portable: the possible applications are almost limitless. DR systems offer two decisive advantages: they deliver the final x-ray image without any time-wasting interim steps – directly! And they lower the radiation doses

for both personnel and patient – while simultaneously providing images with richer contrast and reduced noise. Image plate readers do not offer these advantages – quite the contrary in fact: the x-ray procedures are almost identical, no time-saving feature is discernible. The possibilities within diagnostics, further processing and archiving are provided by the applied image processing systems (PACS) and not by the CR or DR system. Even the difference in price becomes relative: flat panel detectors are practically maintenance and wear free, further costs are out of the question.

We, at VetZ, recognized very early on the advantages of DR systems for veterinary medicine and, together with Canon, installed the first of these systems in Germany. The portable detector CXDI-50G even as the first company worldwide. 'Digital radiography in veterinary medicine' means to us the efficient application of state-of-the-art technology at the highest level. We offer solutions which at all times justify the high cost of digital systems acquisition and fulfill all of the quality requirements demanded of digital radiography. We install x-ray systems which are truly worthy of the name, 'digital': one click and the image is ready!

#### Flat panel detector CXDI-50G from Canon

The flat panel detector CXDI-50G from Canon is the leading DR system in European veterinary medicine, having been installed more than 110 times. And not without good reason: since the CXDI-50G is entirely suited to all applications in the small animal and equestrian sectors and offers excellent image quality, in addition to all of the advantages of flat panel detector technology. Canon's intelligent image processing renders the need for any subsequent processing 100 % unnecessary. No other system offers such user comfort and efficiency in the production of x-ray images.

#### CXDI-50G from Canon is now called XDR1

As one of only a few companies worldwide, we are permitted to promote Canon flat panel detectors under our own brand name: XDR1. Through the application of our own computer and touch panel technologies, we have been able to provide the veterinary medicine sector with a yet more robust system, featuring several cleverly enhanced solutions. The close cooperation with Canon and Europe-wide distribution rights in the veterinary medical sector, enable us to present very interesting pricing. State-of-the-art DR technology thereby becomes affordable.

#### XDR1 and easyIMAGE – your digital 'dream team'

Together with our image processing software, *easyIMAGE*, we provide for all application areas a complete package in which the individual elements complement each other perfectly. Whether stationary or portable, digital radiography is quicker and easier than ever before: select owner and patient in *easyIMAGE*, compile the x-ray function with 'Bodyparts' and submit it to XDR1. With the integrated acquisition packages – e.g. in the case of breeding or purchase examinations – this can be achieved in a matter of seconds. All desired bodily areas are shown on the touch panel, where they can be either worked through automatically or manually by 'touch'. The respective image is shown on the touch panel 3 seconds after activation of the x-ray unit. At this point, the location, position and movement are reviewed, before continuing with the next image. On completion of the x-ray process, all images are immediately available in *easyIMAGE* for any necessary further processing. During a portable application, *easyIMAGE* synchronizes itself in the evening fully-automatically with the practice or clinic network and transfers the data to the archive's server for safe-keeping.



### Stationary x-ray system XDR1-S

#### XDR1-S – the stationary system

XDR1-S is the ideal stationary digital radiography solution for applications in the small animal and equestrian sectors. The sophisticated combination of flat wall-mounted unit and freely adjustable touch panel, form a high-quality complete package for every x-ray room. Being perfectly integrable, it stands for the highest level of efficiency in the x-ray room!

State-of-the art computer and medical technology can be found in a smart, wall-mounted unit made of stainless steel and aluminum. The sensor-controlled touch panel facilitates easy fingertip operation – from every angle and position. A specially designed drawer unit, that can be built into the x-ray table, is available for the treatment of smaller animals. The detector can be easily detached for tabletop x-ray scanning, while the screen can also be detached or mounted. When not currently in use, the screen can be stored in the wall-mounted unit to save space. For stationary use in the equestrian sector, the unit also offers enough space for the safe storage of the detector. Digital radiography can be this easy!

Technical data	
<b>Design:</b>	Wall-mounted unit made of black oxidized aluminum and polished stainless steel
<b>Application:</b>	Stationary digital radiography for applications in the small animal and equestrian sectors
<b>Operating unit:</b>	15" TFT monitor with resistive touch panel, luminosity 1600 cd/m <sup>2</sup> , contrast level 400:1, sensor-controlled luminosity adjustment
<b>Detector type:</b>	Flat panel detector made of amorphous silicon (a-Si) with scintillator
<b>Scintillator:</b>	GOS (Gd <sub>2</sub> O <sub>2</sub> S:Tb)
<b>Image size:</b>	35 x 43 cm with automatic size adjustment
<b>Pixel size:</b>	160 x 160 µm
<b>Resolution:</b>	2,208 x 2,688 pixels
<b>Gray scales:</b>	4,096 (12-bit)
<b>Preview image:</b>	Available on average after 3 seconds
<b>Interfaces:</b>	DICOM 3.0, Ethernet 10/100/1000 Base-TX
<b>Dimensions:</b>	Wall-mounted unit: 442 x 367 x 139 mm (W x H x D) Detector: 491 x 477 x 23 mm (W x L x H)
<b>Weight:</b>	Detector: 4.8 kg
<b>Accessories:</b>	Scattered radiation grid, integrated detector holder, retractable drawer in x-ray table for detector storage

### Portable x-ray system XDR1-M

#### XDR1-M – the portable system

XDR1-M is the optimum system for portable digital radiography. The unique case system is practical to use, whatever the location, and is therefore the first choice for equestrian and mixed practices. Ready to use in no time, it makes for a comfortable workflow: simply roll it in, switch it on and away we go. Your customers will be impressed!

State-of-the-art DR technology can be found in the smart case made of stainless steel and aluminum: a flat panel detector, touch panel, notebook for *easyVET/easyIMAGE*, screen and cable-winding system – all packed into 50 x 50 x 25 cm. As mobile as a standard luggage trolley, with extendable handle, robust wheels and shock-proofed components, this unit masters even the most rugged 'cross-country' operations. The cunningly constructed pull-out system for touch panel and notebook allows the system to be ready for use in a matter of seconds, making it extremely user-friendly. The whole system can be used in a standing position, meaning that information can be discussed with the patient's owner at eye level. The sensor-controlled touch panel displays perfect images from all viewing angles, even under strong sunlight. With XDR1-M, there is no limit to your mobility!

Technical data	
<b>Design:</b>	Case made of black oxidized aluminum and polished stainless steel
<b>Application:</b>	Stationary and portable digital radiography for applications in the small animal and equestrian sectors
<b>Operating unit:</b>	15" TFT monitor with resistive touch panel, luminosity 1600 cd/m <sup>2</sup> , contrast level 400:1, sensor-controlled luminosity adjustment
<b>Detector type:</b>	Flat panel detector made of amorphous silicon (a-Si) with scintillator
<b>Scintillator:</b>	GOS (Gd <sub>2</sub> O <sub>2</sub> S:Tb)
<b>Image size:</b>	35 x 43 cm with automatic size adjustment
<b>Pixel size:</b>	160 x 160 µm
<b>Resolution:</b>	2,208 x 2,688 pixels
<b>Gray scales:</b>	4,096 (12-bit)
<b>Preview image:</b>	Available on average after 3 seconds
<b>Interfaces:</b>	DICOM 3.0, Ethernet 10/100/1000 Base-TX
<b>Dimensions:</b>	Case: 500 x 500 x 250 mm (W x H x D) Detector: 491 x 477 x 23 mm (W x L x H)
<b>Weight:</b>	Case: 38 kg Detector: 4.8 kg
<b>Accessories:</b>	Scattered radiation grid, detector protection for skyline images, retractable drawer in x-ray table for detector storage, rollable and turnable detector tripod



### Compact x-ray system XDR1-K

#### XDR1-K – the compact system

XDR1-K facilitates ultra-compact digital radiography in the equestrian and small animal sectors. The compact and lightweight case is as readily useable as its big brother, XDR1-M. Whether in the stable, or in your practice or clinic. Whether on a tabletop, on the floor, on bales of straw, or built into your practice's vehicle.

The smartly designed aluminum case houses state-of-the-art computer and medical technology as compactly as possible: the tried-and-tested DR technology from Canon, the sensor-controlled touch panel for easy and comfortable operation directly at the terminal and the notebook for *easyVET/easyIMAGE*. Simply open it, switch it on and away we go!

Being lightweight and compact, the XDR1-K is especially favored by female vets and their assistants. Being quickly openable or closable, the detector, screen, cable and operating unit make for simple transportation, whatever the location, and for space-saving storage in the practice's vehicle or the treatment room. This saves space and provides more freedom of movement.

Technical data	
<b>Design:</b>	Case made of black oxidized aluminum and polished stainless steel
<b>Application:</b>	Stationary and portable digital radiography for applications in the small animal and equestrian sectors
<b>Operating unit:</b>	15" TFT monitor with resistive touch panel, luminosity 1600 cd/m², contrast level 400:1, sensor-controlled luminosity adjustment
<b>Detector type:</b>	Flat panel detector made of amorphous silicon (a-Si) with scintillator
<b>Scintillator:</b>	GOS (Gd2O2S:Tb)
<b>Image size:</b>	35 x 43 cm with automatic size adjustment
<b>Pixel size:</b>	160 x 160 µm
<b>Resolution:</b>	2,208 x 2,688 pixels
<b>Gray scales:</b>	4,096 (12-bit)
<b>Preview image:</b>	Available on average after 3 seconds
<b>Interfaces:</b>	DICOM 3.0, Ethernet 10/100/1000 Base-TX
<b>Dimensions:</b>	Case: 550 x 450 x 220 mm (W x H x D) Detector: 491 x 477 x 23 mm (W x L x H)
<b>Weight:</b>	Case: 26 kg Detector: 4.8 kg
<b>Accessories:</b>	Scattered radiation grid, detector protection for skyline images, retractable drawer in x-ray table for detector storage, rollable and turnable detector tripod

### XDR1 – digital radiography can now be fun!

#### Digital radiography with *easyIMAGE* and XDR1

*easyIMAGE* and XDR1 provide a new level of efficiency in the production of digital x-ray images – stationary as well as portable. The integrated flat panel detectors from Canon produce images of excellent quality and are easy and safe to use. Those wishing to satisfy the demands of their customers in terms of DR technology applications, cannot ignore *easyIMAGE* and XDR1. With our system, digital radiography is truly digital: one click and the image is ready!

#### XDR1 – full service included

We offer a complete service package upon purchase of XDR1. Our experts can be contacted 24 hours a day concerning any queries about *easyIMAGE* and XDR1. Benefit from our years of experience and accumulated know-how!

In order that you can instantly and successfully employ XDR1, we plan and coordinate the installation in close cooperation with you and our partners: we contact the manufacturer of your x-ray unit, arrange appointments and get an accurate impression of your individual situation and requirements on-site. We always perform the installation of

XDR1 and the technical connection with your x-ray unit together with our partners, so that an error-free operation can be guaranteed. Finally, we train both you and your team in the simple operating procedures and efficient application of XDR1, answer your questions and provide you with helpful tips and tricks for the day-to-day application in your practice or clinic. We also customize the specially developed XDR1 'Bodyparts' and image parameters to your individual requirements and clarify the optimization possibilities for image processing. We thereby make sure that you have a smooth entry into the digital world!

After the installation, we provide you with support through our 'round-the-clock' hotline, our 'on-site service' (24/7) on the next working day and regular updates from Canon and *easyIMAGE*. Benefit from the constant quality guarantee and further development of our systems. Make use of the advantages of our full service package and enjoy, together with your team, the feeling of being both well cared for and at all times welcome. We are happy to be of service!