KONICA MINOLTA

AeroDR Veterinary

Portable Digital X-Ray system

Giving Shape to Ideas

AeroDR

PORTABLE DIGITAL X-RAY
IMPROVED AND SAFE WORKFLOW

Konica Minolta has developed a portable digital X-ray solution that allows veterinarians to do an easy and quick diagnosis wherever and whenever needed. Within 2 seconds, X-ray image previews are available making use of high end digital detectors. Since the images are immediately available, you can do a quick assessment or reshoot the image right after, making the acquisition an efficient process.

100% Wireless

The portable kit is completely wireless both for data transmission as well as power supply. In addition the AeroDR detectors can be charged from empty to full in only 30 minutes!

Tablet

To further increase mobility, the system is operated via a smart tablet which can be removed from the keyboard docking station allowing for maximum freedom of movement.

Mobility

The complete suitcase system, including AeroDR 10x12 detector, tablet pc and accessories weighs only 9.5 kilograms, making it one of the lightest in the world. Housed in the custom made, sturdy and lightweight suitcase it can easily be carried and is small enough to comfortably fit behind any car seat.

The AeroDR detector uses AeroSYNC Automatic Exposure Detection which allows it to be used with any existing X-ray source.

ImagePilot Veterinary software

ImagePilot is fully DICOM 3.0 veterinary compliant and has been developed in co-operation with veterinarians and is specifically designed and optimized for veterinary use. The user friendly interface provides an all-in-one IT solution. From patient creation to acquisition to diagnosis and reporting to image storage: ImagePilot does it all.

- Patient registration
- Image acquisition
- Diagnosis
- Reporting
- Archiving

Main components Aero DR Veterinary: Detector, Suitcase and ImagePilot tablet

ROBUST DIGITAL **DETECTORS**

Speed - A cycle time of 6 seconds in wireless mode allows you to do more exams per day*

Charging time - Capacitor technology enables charging the detector from 0 to 100% in just 30 minutes

Lightweight - The AeroDR detectors are among the world's lightest, and therefore very easy to handle in your daily clinical routine

Robust - 300 kg surface load makes it suitable for all patient types and sizes

Waterproof - Exposure to water or body fluids is no longer a problem with AeroDR IPX6 waterproof *

AED - Automatic Exposure Detection by means of hybrid detection technology

** applies to AeroDR 14x17*

Speed

A cycle time of only 6 seconds allows you to quickly reposition the detector for the next exposure, which shortens the overall procedure.

Lightweight

The AeroDR detectors are among the world's lightest, and therefore very easy to handle in your daily clinical routine.

- 10x12: 1.7 kg
- 14x17: 2.6 kg

Robust

The AeroDR detectors have a 300kg weight load, are made of monocoque carbon fibre and have passed drop tests to ensure it can withstand minor accidents.

Digital shock sensors register any impact while the software can perform a self-diagnosis of the detector.

The complete system is packed in a robust, yet lightweight suitcase.

Capacitor

There is no need to purchase or replace batteries. The built-in capacitor technology allows a 0 to 100% charging time of just 30 minutes.

SAVE **TIME**

1. LIGHTWEIGHT

- At 1,7Kg the AeroDR1012 is one of lightest detectors in the world.

4. CAPACITOR TECHNOLOGY

- Never buy extra or replacement batteries again and charge from 0 to 100% in less than 30 minutes.

7. ROBUST DETECTOR

- Durable carbon fibre monocoque housing, IPX6 rating and digital shock sensors give you the confidence to work carefree.

8. DOSE REDUCTION

- Excellent quality images of dense anatomical areas with a mobile generator. E.g. shoulder, cervical spine and knee.

6. SOFTWARE

- Full ImagePilot workstation equipped with all the tools and measurements you need to diagnose on the spot.

3. AEROSYNC

- Automatic Exposure detections allows use of any X-ray source.

5. TABLET PC

- Uses a high quality Windows tablet which can be undocked from the docking station for maximum freedom of movement.

2. WIRELESS CONNECTIVITY

- Safely move around the animal without having to worry about cables.

VETERINARY SOFTWARE **& WORKFLOW**

While most other systems use an exam tag approach, meaning you will first need to tell the system which type of exam you are going to perform, ImagePilot simplifies your workflow by allowing you to simply make the exposure regardless of the body part. Using AutoPilot, ImagePilot (automatic image processing), there is no need for exam tags. By extracting bone structure from the image we are able to determine the correct processing, delivering an excellent image each and every time.

How does that affect workflow? Simply register the patient, open the study and make the exposure.

1. REGISTRATION

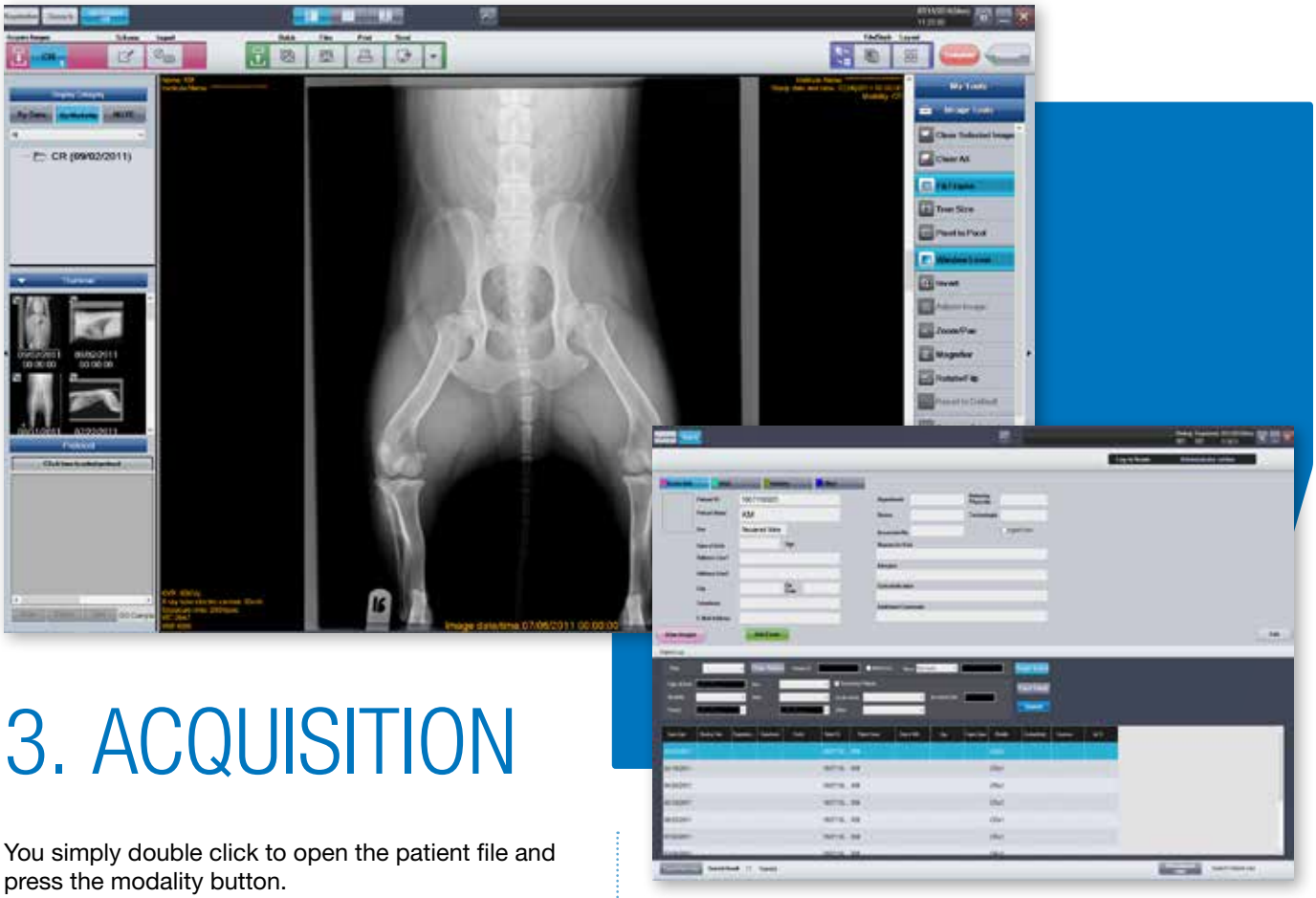
Let's assume you have a new patient who needs X-rays. If your patient management system supports DICOM modality worklist or can output a simple text file, then ImagePilot can automatically read that file and schedule an exam for the patient.

Or you can enter or search for the animal's information manually using standard or customized entry fields such as owner, animal species, breed, castration, chip number, etc.

SEARCH BY OWNER OR ANIMAL NAME. FAST AND SIMPLE REGISTRATION. VETDICOM ENABLED.

2. EASY BODY PART **SELECTION**

For a fast acquisition process, the body parts have been predefined and are easy to select.



3. ACQUISITION

You simply double click to open the patient file and press the modality button.

Next, you position the patient and make the X-ray exposure and an image preview will be displayed in less than 2 seconds.

If you are doing an equine pre-purchasing exam for example you can also follow an easy to use and fully configurable protocol which automatically enters all of the exam information in the DICOM header.

4. DIAGNOSIS

You are now ready to diagnose the image using a variety of tools, such as window levelling, inverting, zoom & pan, (auto) rotate and flip or various distance and angle measurements. Or use one of the specialized measurement tools, including TTA, TPLO, VHS and HD.

5. REPORTING

Using any Microsoft Word template you can easily create a report which is then stored and archived along with the patient data.

In addition you can also export images in either DICOM or JPEG, BMP or PNG format. Using an external CD drive you also create a PDI CD.

6. ARCHIVING & TOOLS

The images are archived in the ImagePilot database. A backup of the entire database can easily be created on any external HDD for safekeeping.

In order to optimize your diagnosis, ImagePilot comprises several positioning tools, such as Auto Rotate/Flip, Viewer.

Because of the Image Quality Auto Optimization, there is less intervention from the user needed. The software automatically adjusts the images to the optimal settings and parameters. This will save you a lot of time.

MEASUREMENTS

Clinical tools and measurements include:

- Norberg Angle
- Distraction index
- Relative coverage
- VHS
- TTA
- TPLO

TECHNICAL SPECIFICATIONS

Detection method	Indirect conversion method
Scintillator	CsI (Cesium Iodide)
Dimensions	(WxDxH) 281.8 x 333.0 x 15.9 mm
Pixel size	175 µm
Detector weight	1.7 kg
Weight durability	150 kg @ ø 40 mm / 300 kg @ full image field
Communication	Wireless LAN (IEEE802.11a compliant) / dedicated wired ethernet connection
Image preview time	Less than 2 seconds
Cycle time	Approx. 7 seconds (with dedicated wired connection)
Cycle time	Approx. 9 seconds (with wireless LAN connection)
Image field	1.404 x 1.696 pixels
Battery type	Lithium Ion Capacitor
Battery charging time	Empty to full within 30 minutes
Number of exposures	146 images / 4.0 hours

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