

Reference



*Dr.med. Uwe Kairies and
Dr.med. Frank Rosenbaum*

X-ray practice Dr. med. Uwe Kairies and Dr. med. Frank Rosenbaum, 17109 Demmin, Germany

The X-ray practice Dr.med. Uwe Kairies & Dr. med. Frank Rosenbaum, established in 1996, was committed right from the start to the most modern technology in all areas of diagnosis. The clinic disposes of ultrasound, mammograph, X-ray system, CT and MRI. All work stations, from reception to the office, are linked to each other. Dr. Kairies and Dr. Rosenbaum consider modern standards as a basis for effective diagnostic evaluation and archiving of image data.

Towards the end of 2008, a new X-ray system was installed through the company of "Fischer-Sehner medical imaging". This X-ray system includes a bucky table and bucky wall stand, both with a detachable movable grid including automatic grid recognition via the **DX-R** software and a "Stadler" generator. In addition, 2 Varian flat panels 4343R GadOx were integrated into the system. The flat panels were installed into bucky cabinets made by the Dutch firm "Hoorn".

OR Technology supplied the **Medici** DR system together with the console comprising a 19" touchscreen monitor including generator control, AEC, APR and much more. Installation and application of the digital components including the generator control was also implemented by OR Technology.



Bucky table



Console terminal



Dr.med. Uwe Kairies

Dr.med. Uwe Kairies comments on his reasons for changing to a new system:

“For many years we have been cooperating with the district hospital of Demmin and thus have a large number of patients. Our RIS/PACS system is connected to the hospital's RIS/PACS system of the company Afga. Images and diagnostic reports are available promptly to the referring doctor at the hospital.

We realized it was time to change to a more advanced X-ray system so we could continue offering our patients the best diagnostic quality. The entire old X-ray system was replaced with the new direct-digital DR system. The old CR system could no longer significantly improve our work. For this reason we decided on direct radiography without cassettes. Now X-ray images are available on our monitors for diagnostic evaluation after 10 seconds only. The process of cassette reading with all its disadvantages is no longer necessary.

Our new X-ray system has proven to be successful, not only because of its very high imaging speed, but also in terms of the quality of image details. After having worked with FUJIFILM CR systems for many years, we are highly experienced concerning the quality of digital images. So we obviously had very high expectations of the new X-ray system.

We were not disappointed. On the contrary, the X-ray images of our new system have a very high dynamic range, i.e. we can view soft parts and bones simultaneously. This is due to the fact that the increased quantum efficiency (DQE) allows more X-ray quanta to be changed into image-effective information, which may result in lower X-ray exposure and increased image quality.”



Dr.med. Frank Rosenbaum

Dr.med. Frank Rosenbaum comments on the introduction of the DR system:

“After extensive restructuring procedures including dismantling the old system, various alterations and installation of the entire new system as well as some minor adaptations, we were able to resume our work without any limitations after only 3 weeks.

At our request, an additional image quality application was implemented. Now we can certify an excellent image quality for the system.



The entire work process has also become faster and more efficient. Also this change-over criteria was executed to our complete satisfaction. For the old X-ray system we used to require two radiography assistants, one handling the X-ray imaging, while the other read the cassettes in the CR system. Now this can be accomplished by one assistant only so that the second person can be deployed differently.”

Ms. Arndt (radiography assistant) comments on the image acquisition software *dicomPACS®DX-R*:

“My colleagues and I are extremely satisfied with the process of X-ray imaging. The entire X-ray system can be controlled via the touchscreen monitor. The design of the graphical interface is very clear and precise. As soon as an image is taken, it can be checked on the monitor and released into the system.

X-ray positioning guide



The integrated radiographic positioning guide also contributes to quality assurance in our communal practice. It provides the correct adjustments for each examination as well as examples and videos. Faulty images can be avoided almost completely.

The system allows the user to switch between the planned examinations of a patient very easily. This is above all very helpful, which means a patient does not have to be repositioned frequently. Even when examinations have been concluded, images may subsequently be added quickly and easily.

The invariable image quality also contributes to an accelerated and smooth work routine in our practice. The special DX-R image processing allows X-ray parameters to shift substantially, leaving the image quality constant. The X-ray dose for our patients is reduced partially also, and the integrated image viewer is also configured very user-friendly.”

Upgrading to digital made easy



Medici DR Systems

| with **DX-R** Acquisition Software

| DR Retrofit Systems for the Future

You know the problem: Your X-ray system is not even that old and works perfectly. Yet as a progressive doctor you would now like to create your X-ray images digitally and benefit from all the advantages of this technology.

CR systems are not an option for you since digitalisation with a flat panel (DR system) offers many additional advantages, mainly better image quality and hardly any servicing costs. Therefore you would like to extend your existing X-ray system by a flat panel system and are looking for a complete upgrade kit that is easy to install, easy to operate and provides X-ray images in a professional and reproducible quality.

Welcome to our Medici DR systems!

Medici DR systems are available for almost any existing X-ray system. Various makes and sizes of flat panels allow your system to be configured according to your needs. The **dicomPACS®DX-R** acquisition software can be operated intuitively via a touchscreen, adjusts to your work routine and provides X-ray images in a reproducible, extremely high quality.

Of course, all **Medici** DR systems can be integrated into your practice management software and transfer the X-ray images to an image management system (PACS). If you have not yet installed such an image management system but still require the images to be distributed within your practice or hospital, or to colleagues or patients via the internet - no problem: Our **dicomPACS®** image processing system will do just that.

Further information is available under www.or-technology.com



OR Technology

| Digital X-ray and
| Imaging Solutions

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