

# KODAK DIRECTVIEW CR MAMMOGRAPHY FEATURE FOR CR 850 / 950



## Kapuzinerkarree Medical Center, Aachen, Germany

### Interview with Professor Wein

*The issue of spatial resolution is a frequent topic for discussion in digital mammography with many publications now confirming that digital image quality is comparable with that of analogue. Professor Wein, you have been using the new Kodak CR mammography system for a number of weeks now. What is your experience with the spatial resolution of our system?*

"The spatial resolution on the Kodak system enables a detailed representation of tissue detail and microcalcification and septations in the breast up to a level of detail of 9-10 line pairs per millimeter. This

The DIRECTVIEW CR Mammography feature for CR 850/950 offers increased versatility.



The system uses high-resolution mammography screens that can be read by the CR with a precision of 50  $\mu\text{m}$ . This means that a spatial

resolution of up to 10 Lp/mm can be achieved.

means that digital mammography enables us to identify changes in the structure of individual calculi and using this method instead of film enables geometric enlargement of the image, which allows subtle analysis of suspect lesions with a resolution quality equal to that of analogue images."

**KODAK** MEDICAL SYSTEMS  
FOR MAMMOGRAPHY



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*Among other things, high contrast resolution is important for the early detection of microcalcifications - particularly in the denser glandular parenchyma. At the same time, however, the skin seam area should be easily visible. How would you evaluate Kodak image processing?*

"Kodak image processing can be adjusted specifically and fine-tuned in other areas (definition, brightness, contrast, low frequency filtering.) The option for increasing definition irrespective of the environment is particularly important and is ideally suitable for balancing a digital mammogram when encountering very dense breasts. The additional information provided makes it much easier to detect and assess fine septations, nodular changes and calculi, some of which would not have been identified in a conventional image."



*The use of harder radiation in digital mammography is an ideal way to reduce dosage. Do you use this option in your practice?*

"We are planning a series of trials in which we shall examine patients with different kV values: CC low kV, MLO higher kV."

*How would you evaluate digital imaging in terms of reliability, precision and reproduction?*

"If digital imaging is carried out in line with data backup rules, then its reliability is unbeatable in conventional terms, particularly because image recall is much faster than the painstaking retrieval of specific films from a large archive. Original standard images are available at any time without loss of quality and because the image is digital, an exact "original



- Special CR Mammography Cassettes
- High resolution EHR-M storage screens
  - Extremely small phosphor crystals
  - High packing density
  - High DQE
- 50 µm scanning
- Nyquist frequency 10 Lp/mm
- Visual spatial resolution of at least 8 Lp/mm (thereby meeting the relevant qualifying requirements for the reliability of digital mammography)

printout" can be produced on the Kodak laser printers at any time. This means that identical mammograms can be copied, even when the patient attends different treatment centers, which is a huge benefit over conventional mammograms."

*What about Kodak Service? Were you satisfied?*

"Overall, the support and service received by our practice has been very good. Even minor problems are resolved quickly."

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