

Case study

South-East Bavaria Clinics AG

»Thanks to the built-in DICOM preset function, our new Fujitsu monitors are ideal for viewing digital X-ray images. Our doctors benefit from the quality, high-contrast display.«

Stefan Popp, IT Management, South-East Bavaria Clinics AG



Investing in a digital future

There is no stopping digitalization in the healthcare sector. Modern IT makes a contribution to increasing the efficiency of processes in hospitals – not simply to conserve budgets, but also to improve the quality of patient care. To enable a shared “language”, DICOM (Digital Imaging and Communications in Medicine) provides an international IT standard, which regulates the storing and exchange of information in the healthcare sector. DICOM also applies to the creation and reproduction of image files, for example X-ray images. And it is precisely in this environment that South-East Bavaria Clinics has chosen to invest in their digital future.

Replacing a process that was time and cost intensive

The not-for-profit limited company South-East Bavaria Clinics AG is a conglomeration of six hospitals. The organization takes care of more than 50,000 patients annually in its locations in Bad Reichenhalt, Berchtesgaden, Freilassing, Ruhpolding, Traunstein and Trostberg. Although the clinic in Traunstein has its own radiology department, the other hospitals in the network depend on radiology practices in their local area. In the past, the procedure was as follows: classical prints of X-ray images had to be delivered from a practice (or internal department) to the appropriate station. “Meaning that this print had to travel a physical distance,” says Stefan Popp, IT Manager for the South-East Bavaria Clinics AG, by way of explanation. “What’s more, every single print cost a few euros. During the course of one year, we were spending enormous amounts of money, just for material for X-ray images.”

Impressive 27-inch monitors

Thanks to extensive investment, this time and cost intensive process is now consigned to history. Fujitsu now provides an important element – the possibility of high-quality viewing for digital X-ray images – with its powerful Fujitsu P27 monitors in the Superior series, which have a screen diagonal size of 68.6 cm or 27 inches. “This is the ideal size for placing two X-ray images next to each other and comparing them,” Stefan Popp says. The computing basis for these screens is provided by particularly compact, space-saving Fujitsu ESPRIMO C700 PCs, which are equipped with a modern, slot-in CD drive.

The Customer

South-East Bavaria Clinics AG is the leading health services provider in the region. The company employs 3,400 staff and takes care of 50,000 patients each year.

www.kliniken-sob.de



The Challenge

A more efficient, premium quality IT solution for viewing digital X-ray images.

The Solution

Fujitsu P27 monitors with DICOM preset function plus Fujitsu ESPRIMO C700 PCs.

The Benefit

- High quality DICOM viewing for X-ray images
- Time and cost savings thanks to digital X-ray images
- Monitors can also be used in the sensitive operation area
- Excellent ergonomics due to prize-winning design
- Outstanding price-performance ratio

Supplying X-ray images in seconds

The clinic in Traunstein, which has its own radiology department, has now become a so-called "film-free hospital". The foundation for this is ultra-modern X-ray devices, which are manufactured in such a way that they produce X-ray images with a minimal X-ray radiation dose for the patient. These devices are embedded in a PACS system. A digital image archive such as this (PACS = Picture Archiving and Communication System), for which DICOM also provides a foundation, ensures that images can be supplied in fractions of a second. "The digitalized X-ray process increases the speed of the procedure unbelievably," Stefan Popp explains. "The X-ray image is either produced in a radiology practice or in the internal radiology department at Traunstein, uploaded to the web system – and then it is available to be viewed by the respective doctor at the appropriate station on his Fujitsu monitor."

Monitors to satisfy the highest expectations

At five of its six locations, South-East Bavaria Clinics AG has equipped operation rooms, ambulances (OR: casualty departments?) and intensive care stations with Fujitsu P27 monitors. This enables the doctors to view high-quality X-ray images directly where the action is. If the images cannot be accessed via the central web archive, there is the additional option of viewing the digital pictures on CDs that patients have brought with them, via the Fujitsu ESPRIMO C700 PC. Yet regardless of the way in which the images arrive, the clinic network's

Products and Services

- Monitors: 15 x Fujitsu Display P27T-6 IPS
- Desktop PCs: 15 x Fujitsu ESPRIMO C700

new monitors deliver a brilliant performance: 3.7 million pixels of perfect image quality and an ultra-wide viewing angle of 178° from any perspective. This last value is very comfortable when a number of medical personnel want to view the X-ray images on screen at the same time. IT Manager Stefan Popp can only confirm his users' high level of satisfaction:

"The P27 monitors from Fujitsu are so ideal for viewing digital X-ray images because the grey scale values of the X-ray image can be depicted more sharply, and with higher contrast, thanks to the special DICOM preset function."

High-contrast and ergonomic

Alongside the DICOM preset function, the ergonomically developed design has a positive impact on the working results. The stable, flexible stand allows for sufficient turning and leaning movements, plus an impressive height adjustment and a turn to upright format – all this with a 27-inch diagonal screen size. This allows for excellent viewing capabilities, even of portrait-sized X-ray images, for example X-rays of the chest. Which explains why this Fujitsu display was awarded with the prestigious, internationally acknowledged "red dot design award". With the new Fujitsu technology, South-East Bavaria Clinics AG have more than satisfied their design to increase their innovation capabilities and become more modern.

Contact

FUJITSU Technology Solutions
Customer Interaction Centre
Mo. – Fr. 8 am – 6 pm
E-Mail: cic@ts.fujitsu.com
Telephone: +49 (0) 1805-372 100
(14 cents/min via German landline,
max. 42 cents/min via German mobile network)

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