

FluoroStore

Image management for fluoroscopy





Bildteknik – the medical image engineering company

We integrate medical audio, video, monitoring, and imaging from any equipment or modality, including X-ray, endoscopy, and ultrasound, in order to simplify high-quality image management for hospitals.

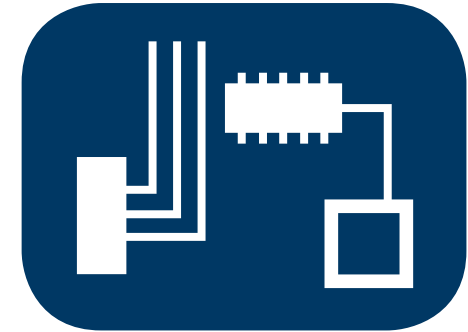
With solutions that work with any make, brand, or model of medical imaging equipment, we offer truly vendor-neutral integration in high definition. Our systems are seamlessly connected with other hospital IT systems such as picture archiving and communication system (PACS), electronic health record (EHR), radiology and hospital information system (RIS and HIS).

Serving all branches of the hospital – including operating rooms, catheter labs, and radiology departments – our systems add comprehensive functionality to capture, display, record, archive, store and review medical images. We enable medical professionals to distribute images and to interact with colleagues, collaborators, students and other audiences anywhere.

Our ready-to-use systems can serve as a platform to create complex custom-made installations. We deliver the complete solution, including our proprietary software together with all the necessary hardware, and we provide service and support over time for maximum reliability.

Bildteknik is head quartered in Lund, Sweden, with local service offices in Europe and Asia. The company is ISO 13485 certified with Intertek as the notified body, and all of our products are classified as medical devices.

Made in Sweden since 2009.



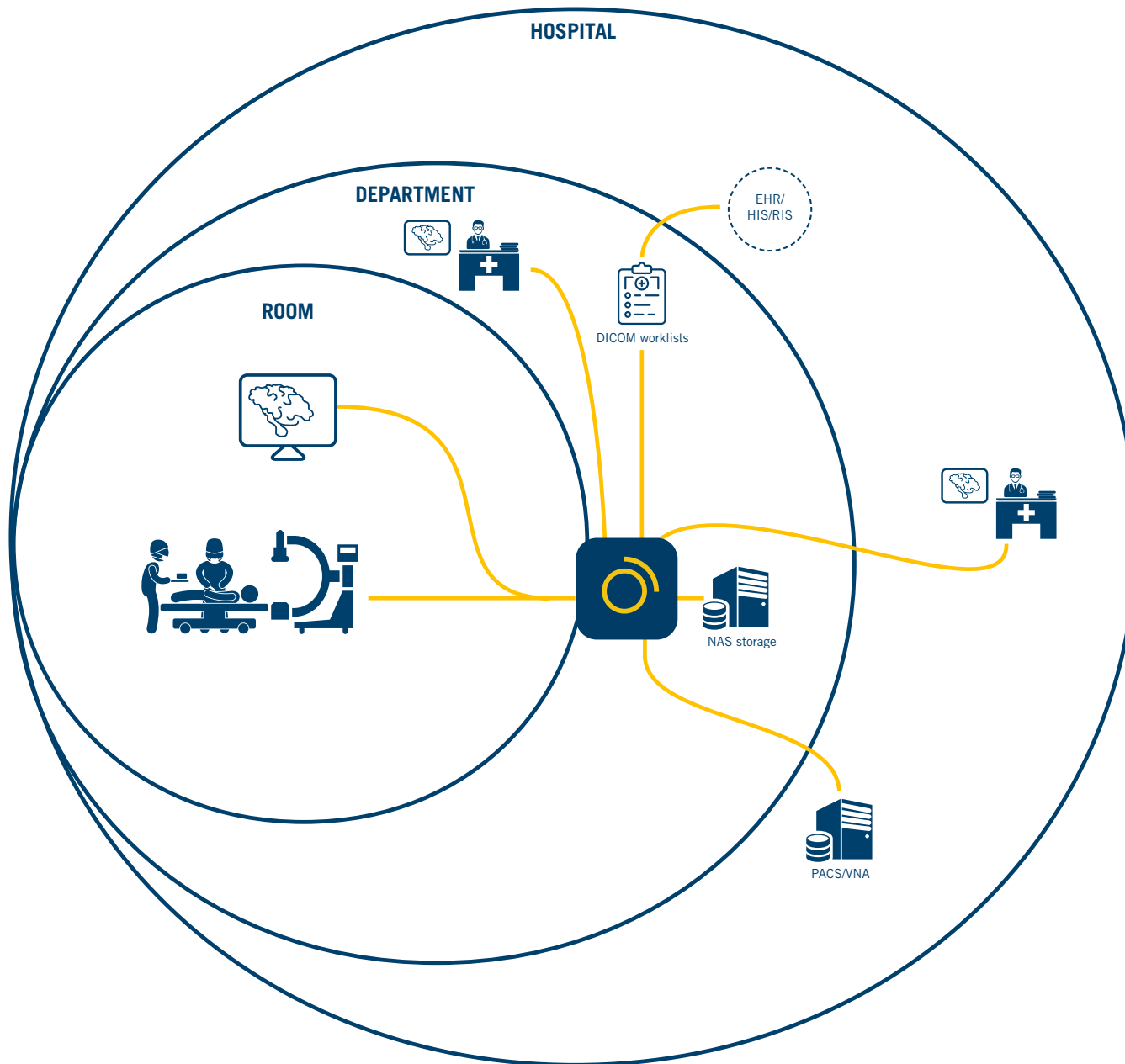
HARDWARE



SOFTWARE



INSTALLATION & SERVICE



FluoroStore - image management for fluoroscopy

FluoroStore offers comprehensive functionality for monoplane and biplane fluoroscopy.

Record

Save all fluoroscopic sequences and radiographic images locally, with the option to send to PACS. Synchronized recording of frontal and lateral plane image sequences.

Review

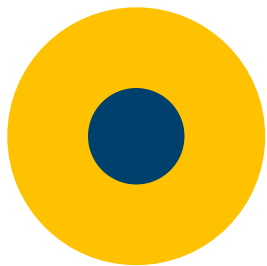
Quick search functionality for reviewing images directly from your workstation. Synchronized playback of frontal and lateral plane image sequences. Review images from any connected workstation throughout the hospital.

Edit

Create sequences of interest and export to a local file or send to PACS.

Store

Archive and store images locally, for example in a NAS-storage, to reduce PACS storage costs.



Handle large volumes of image data

Long fluoroscopy procedures, common in neuro-radiology, for instance, generate large volumes of image data. To preserve storage space and limit costs, normally only radiographs are saved in PACS.

FluoroStore is a fluoroscopy management system that records automatically as the pedal is pressed. Optionally, recording can be started with the click of a button. All fluoroscopic sequences and radiographic images are saved locally, for example in a NAS-storage. FluoroStore can then be used to view or edit image material directly from your local workstation — with no loss of image quality. It is also possible to send selected sequences to PACS.

Manage monoplane and biplane imaging

FluoroStore can be used for monoplane as well as biplane imaging and offers parallel and synchronized recording and playback of frontal and lateral plane image sequences. Recording is done automatically. Reviewing of sequences can be done directly from the workstation.

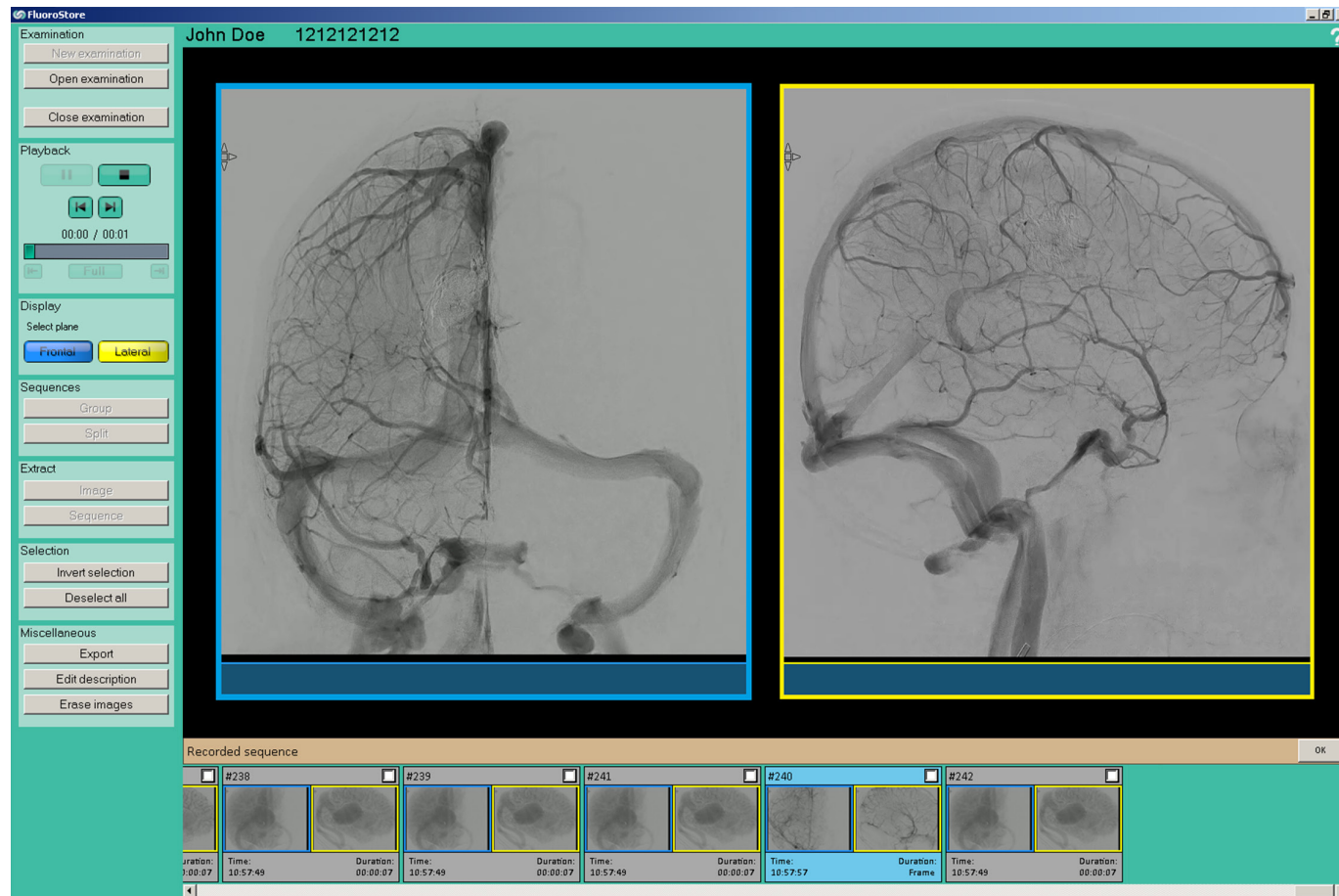
Reduce storage costs

Use FluoroStore to complement the X-ray machine's storage function and save image data from procedures while keeping PACS storage requirements and associated costs low. With FluoroStore, it is cheaper to save complete image material from long procedures because all data is saved in a storage solution outside of the PACS system. You can also choose to send selected or edited sequences to PACS.

When you need to review a prior examination, FluoroStore offers quick search functionality in the archives.

Benefits

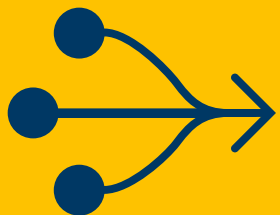
- Automatic and synchronized recording
- Save money on storage of long procedures
- Diagnostic image quality maintained
- Easy to create educational material
- Reduce PACS storage requirements and cost



- Vendor-neutral, integrated with the X-ray system
- Patient registration via DICOM worklist or manual entry - modality worklist functionality
- Automatic recording of fluoroscopy
- Works with monoplane and/or biplane (frontal and lateral)
- Synchronized recording of biplane fluoroscopic sequences (frontal and lateral)
- No loss of image quality
- Database for quick archive searching
- Adjust brightness and contrast, zoom
- Frame by frame viewing
- Add annotations
- Export sequences



Technical details in brief



- Connections: DVI-, HDMI-, SDI- or analogue VGA video standard
- Dual-channel digitalization of high resolution video
- X-ray images are transferred from the X-ray machine to FluoroStore using fiber-optic, galvanically isolated cables
- Image transmission to PACS via DICOM store (optional)
- Connected to RIS via DICOM Modality Worklist (SCU)



- Runs on Windows 7 or 10 (32/64 bit)
- PC dimensions: 200mm x 500mm x 500mm (W x H x D)
- PC weight: 12kg
- I/O module dimensions: 130mm x 180mm x 60mm (W x H x D)
- I/O module weight: 1kg
- Monitor (30") dimensions: 700mm x 470mm x 310mm (W x H x D)
- Monitor (30") weight: 17kg
- Up to 1280x1024
- Up to 15 FPS



- Power consumption: 500W
- Minimum hardware requirements: Intel Xeon 4-core 3.0GHz, 4GB RAM, 500GB HD
- Requires minimum 100MBit Ethernet
- Data storage: yes, 2TB (local) or Central Storage (NAS) solution
- IP class: IP 23
- Operating temperature: +10 to +28°C
- Storage temperature: +10 to +28°C
- Relative humidity: 30-75%

Service and support - example

	Level 1	Level 2
One preventative maintenance visit per year	✓	✓
Unlimited phone support within working hours	✓	✓
Service ticket response within one working day (telephone or remote access)	✓	✓
Remote access engineer within two working days (where remote access has been made available)	✓	✓
Delivery of spare parts kept in stock within 24 hours		✓
On site engineer within 3-10 working days (if required and depending on location)		✓
Parts and labor included		✓
Free software upgrades for duration of contract	✓	✓

Contact details

Sweden (head office)

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Bildtechnik is the medical image engineering company. We offer vendor-neutral integration of medical audio, video and imaging. Our solutions range from ready-to-use systems to custom-made installations. We deliver the complete solution with comprehensive functionality. Our customers are in the operating room, the catheter lab or the radiology department. We are ISO 13485 certified and all of our products are medical devices. Made in Sweden since 2009.