



RICOH
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eRecord Mobile

Mobile data capture
for increased
efficiency and
patient security

Healthcare

Ricoh's G800SE digital cameras and electronic forms help hospitals and healthcare organisations manage electronic patient information, allowing images and documents to automatically be assigned to the correct patient records through the use of unique patient barcodes and digital forms.



Refining the patient documentation process

As hospitals and healthcare organisations care for an ever-growing number of patients with increasingly high expectations when it comes to treatment methods, quality and waiting times, the emphasis is now squarely on them to innovate.

In the past, image filing was a labour intensive process whereby a nurse took a picture of a patient, operation or wound and then wrote down that patient's information by hand. This was uploaded manually by a second person before having to be assigned to the correct patient in the hospital's document management system.

Ricoh's eRecord Mobile solution enables healthcare organisations to automate this process, improving the quality of service provided to patients by not only saving time, but reducing the risk of human error caused by manual data entry. This method is also more secure, as information captured using barcode scanning or an electronic form on a tablet, is transmitted digitally, straight to the correct hospital system.

eRecord Mobile ensures a fast flow of information, leading to improved patient care and simplified, more efficient processes for healthcare staff.



Nearly two thirds (62 per cent) of healthcare professionals across Europe say information sharing internally is worse, or just the same as in 2009.*



Despite the widespread excitement and value placed in a tech evolved workplace, less than a third of employees (29 per cent) say their company has a strong appetite for creating new ways of working and deploying technologies to make the future a reality.**

*A New Perspective: Ricoh Document Governance Index 2012, an independent study commissioned by Ricoh and conducted by Coleman Parkes

** Employee survey on workplace technologies of the future, commissioned by Ricoh and conducted by Coleman Parkes



Guaranteeing a fast flow of information for improved patient care

Ricoh's eRecord Mobile solution allows hospital staff, using Ricoh's G800SE camera, to take pictures of patient wounds and upload them effortlessly onto the hospital system using Wi-Fi. By including patient barcodes in the metadata of images, photos are automatically allocated to the right patient on the hospital's system.

The camera reads the patient barcode printed on wristbands or beds and because the assignment of images to patient records no longer has to be done manually, the margin for error is reduced, leading to more accurate documentation.

Allowing healthcare staff to collect patient information in a digital format from the start helps to prevent siloed workflows and ensures multiple staff can access records at one time. Moreover, in the future, using mobile solutions may help to speed up this process even further.

The solution also includes a tablet, so nurses can take notes and upload them automatically. In the past, handwritten notes had to be typed up manually, which took up a lot of time or wasn't done and they remained paper-based. This led to frequent errors, or meant that information wasn't available to colleagues on other wards.

eRecord Mobile ensures a seamless documentation process, increased security and reduces paper waste. By optimising the process, staff spend less time handling administration and more time with patients, helping to improve patient treatment.

Key Benefits

- More efficient process
- Reduces the risk of human error
- Patient information more readily available to staff
- Increased security
- Ensures a joined up system
- Saves paper

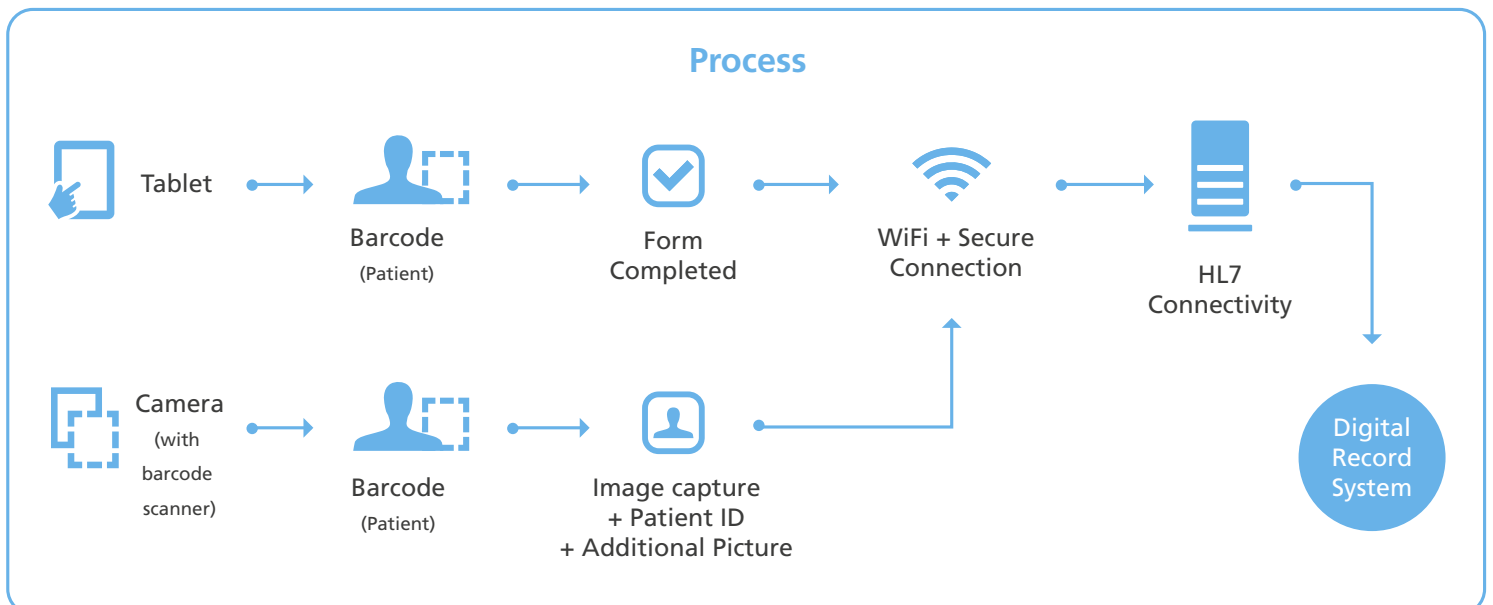


Figure1: eRecord Mobile process

About Ricoh

As a global company specialising in office imaging equipment, production print solutions, document management systems and IT services, Ricoh offers healthcare institutions true end to end solutions that reduce time spent on these admin heavy processes and more time for patient care.

Ricoh works with leading healthcare organisations around the world. Our suite of solutions have helped improve efficiencies by up to 20% and have delivered a reduced administrative workload for medical staff, ensuring the focus is on patients, not paperwork. Here are some examples of our work:

Optimising photo documentation with Ricoh's G700SE Camera

The ability to efficiently document photos of patients, operations and wounds is vital for hospitals and the Mathias Hospital in Rheine, which uses digital cameras for this purpose, is no exception. Nurses here take pictures to document a patient's initial medical problem, its development and how they respond to treatment, guaranteeing transparency when it comes to patient care.

In the summer of 2011, 25 digital cameras from various manufacturers were used at the Mathias Hospital. After a ward round or operation, the pictures taken would be transferred to a computer using a USB stick. Staff would then have to manually match up the pictures with the patients. This process was not only time-consuming, but carried a huge margin for error, meaning the process often had to be repeated. Digital pictures would laboriously be given file names before being manually transferred into the hospital's document management system.

Since June 2011, staff at the Mathias Hospital have been using the G700SE Ricoh digital cameras. This has led to increased efficiency when it comes to the documentation process and better photo quality.

The barcode reader means that when each photo is taken, the case number of the patient is captured. Every patient receives a case number in the form of a barcode when he or she is admitted to hospital. The case number is attached to the bed or printed on the patient's wristband.

Scanning technology allows barcodes to be read in seconds and then saved into the metadata of the picture, so that pictures are automatically assigned to the right patient. They can be transmitted via Wi-Fi and automatically assigned to the patient's digital medical records.

The time saved by this automatic process and the reduced margin for error means that more time can be dedicated to the treatment of patients.

Key Benefits

- Increased efficiency of wound documentation
- Better quality images
- Transmission of photos via Wi-Fi, Bluetooth or USB-stick
- Easy to use, sturdy camera
- Ability to disinfect the camera with ethanol or sodium hypochlorite



Many steps of the procedure have been completely eliminated or simplified, which has enabled us to considerably increase the efficiency of our photo documentation process,"

**Antonius Epping,
DMS-Manager at
Mathias Hospital.**

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