

NEC Display Solutions Client Installation Healthcare

San Bassiano Hospital

Collaboration through Telemedicine



Digital Health is the future of healthcare. Topics such as Telemedicine, Telehealth, virtual consultation, healthcare kiosks, remote patient monitoring and mobile applications will play a fundamental role in the future of healthcare treatments. San Bassiano Hospital embarked on an innovative project to create a Competence Centre which will bring the latest digital healthcare developments to the Bassiano del Grappa region.

The San Bassiano Hospital in Bassiano del Grappa was founded in 1993. In more recent years, the Veneto region reorganized its healthcare provision whereby the San Bassiano operates in cooperation with two other hospitals in the Pedemontana area, supporting a population of about 360,000 inhabitants.

The hospital has a Minimally Invasive Surgical department supported by interventional radiology, with a focus on oncology treatments with percutaneous image-guided ablation, in collaboration with the University of Trieste. In 2016, the Bassiano Radiology department performed 155,000 examinations (CR, US, CT, MR, MX).

SITE INFORMATION

Sector

- Healthcare

Client Information

- San Bassiano Hospital
www.aulss7.veneto.it

Partner Information

- mbits imaging GmbH
www.mbits.info

Installed

- June 2017

EQUIPMENT

- NEC InfinityBoard 65" incl. 2 x 40W Speaker, OPS-Sky-i7v, Trolley, Huddly Camera
- mRay (incl. Server), Zoom



The Challenge

The digitalization process is an essential element in the hospital's everyday operations and telemedicine/telehealth is fundamental to future developments. The radiology department sought to fit-out its Multi Disciplinary Team (MDT) room with an interactive touch solution equipped with collaborative and video conferencing tools specifically for telemedicine applications in order to establish a Competence Center within the hospital. Similarly, the Operating Rooms (OR) will benefit from technology to enable interactive live surgery whilst the connection with other departments, hospitals and healthcare services in the territory will support tele consultancy. Finally, all other healthcare facilities in the territory are to benefit from a similar overhaul of technology to enable collaborative consultations.

Since the shared content is highly sensitive, the solution must guarantee strict security and offer medical certification with DICOM2020 protocol-technology and be able to easily integrate the existing PACS. For education and documentation, all sessions must be recordable, to be stored and reviewed when necessary.

The NEC Solution

The NEC 65" NEC InfinityBoard, together with highly specialised software products is a tailor-made fit to the hospital's requirements.

The 65" UHD multi-touch screen with InGlass™ Touch technology and a powerful built-in OPS slot-in PC with Windows 10 IoT facilitates interactive collaboration. With the integrated Huddy Camera at an angle of 120°, video conferencing partners are able to see all participants in the room, including the person working on the screen. Two 40W speakers along with a Sennheiser TeamConnect Wireless Tray-M Set system offer perfect audio conditions for video conferencing.

The pre-installed Zoom video conferencing application enables VC sessions to be recorded and real-time annotation facilitates collaboration between virtual teams. mbits' mRay, a medical certified application for large format touch screens and mobile devices was installed to tailor the solution to the needs of the radiology department. The software offers a specially developed DICOM 2020 protocol technology to deliver first class

images in a mobile environment. With this powerful solution, the team is able to share PACS easily, even to smartphones and tablets. To get the full picture, NEC InfinityBoard can be used to swipe through imaging decks during virtual MDT sessions.

The Result

With the interactive NEC InfinityBoard solution featuring high quality image reproduction and crisp and clear video streaming, communications and interactions in meetings and MDT sessions have been raised to a new level. Thanks to the interactivity features offered by the NEC InfinityBoard and its associated applications, interaction amongst healthcare professionals has become much more efficient helping to ensure best collaboration between departments.



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