

NEC Display Solutions Client Installation **Healthcare**

# BOULOGNE-SUR-MER HOSPITAL CENTRE



## IMPROVING THE VIEWING OF PACS IMAGES IN THE OPERATING THEATRE

The Boulogne-sur-Mer Hospital Centre has equipped its operating theatre with specialist NEC 46" displays in order to improve the viewing of PACS images and videos, to facilitate the work of surgeons and the nursing team. Patient Archive and Communication System (PACS) will eventually replace traditional film within all hospital centres.



The Boulogne-sur-Mer Hospital Centre is a public health institution situated in the coastal residential area of the Nord-Pas-de-Calais region and is recognised as a referral facility for neighbouring hospitals. With a large capacity available for hospital treatment and employing more than 2,000 personnel and doctors, the hospital treated over 196,000 outpatients in 2011 and recorded 1,287 births.

### THE CHALLENGE

The hospital operates a number of specialist areas including an ambulatory surgery unit, a cardiology intensive care unit, a neonatology intensive care unit, a multidisciplinary intensive care unit, a centre for treating memory loss, a neurovascular unit, and the treatment of persistent chronic pain and obesity. To maintain its technical excellence and high reputation, the hospital demands the tools needed for the provision of quality care within the accepted safety standards.

It is within this context that Mr Abi CHALA, business manager at ICN-Métris, a company specialising in the provision of medical image software and the integration of Multimedia High Definition systems for operating theatres, recommended that Boulogne-sur-Mer Hospital Centre should adopt high-end display equipment from NEC. Mr Jean-Luc BRAME, biomedical engineer at the hospital was looking to equip his operating theatre with displays to



complement his SMS.OR software suite used to distribute PACS images and video.

### THE SOLUTION

Mr Jean-Luc BRAME selected the NEC 46" MD4610R which, specifically designed for use within operating theatres, uses an HD SDI card in order to circulate the images coming from the PACS and SMS system provided by ICN-Métris. SMS is a solution for consulting examinations, digitalisation and equipment monitoring within operating theatres.

The Boulogne-sur-Mer Hospital Centre was also attracted by the excellent watertight nature of the display casing with regard to maintenance and hygiene within the operating theatre.

The NEC MD4610R is a complete solution which, with innovative connectivity and integrated PC, allows for connections to PACS. "It is a solution for operating theatres which is unique in the market

place and has already aroused very keen interest", states Denis GROUT, manager for healthcare products at NEC Display Solutions.

The operating theatre at the Boulogne-sur-Mer Hospital Centre, which comprises 11 fully equipped



rooms, is now benefiting from a number of NEC MD4610R displays, featuring DICOM compliance and IP55 protection. They are made from material which is at the forefront of innovation, conforms to CE MDD Class 1 standards, and allows doctors and nursing staff to make precise use of "patient" examinations.

#### THE RESULT

A swift and efficient installation without any noticeable constraints was performed by ICN-Métris. Scarcely 2 hours per room was needed for fixing the display casing and the display itself, and

for performing the required testing. A version of the display mounted on a trolley is also available.

In the not too distant future PACS systems will be brought in as a replacement for traditional film. By offering high-end displays which allow for the rendering of radiological images and also for viewing medical images of a high and consistent standard, NEC Display Solutions can meet the expectations of the complete range of services offered by a hospital. By opting for NEC, the Boulogne-sur-Mer Hospital Centre has chosen THE partner capable of meeting the challenges of digitalisation within its operating theatre.

## INSTALLATION INFORMATION

### SITE INFORMATION

#### SECTOR

Medical

#### GEOGRAPHICAL LOCATION

Boulogne sur Mer Hospital Centre (62)

#### NEC PARTNER FOR THE INSTALLATION

ICN-Métris

3 rue Verte, 95100 ARGENTEUIL

[www.icn-metris.fr](http://www.icn-metris.fr)

### EQUIPMENT AND BENEFITS

NEC MultiSync® P462 - 46" LCD large format screen - with casing allowing for the integration of wide area connectivity.

It comprises a Full HD LCD panel and a system controlling video signals.

Casing, dedicated to meet the needs of operating theatres, specially designed to host the screen (with protection against dust and moisture).

### PRINCIPAL FUNCTIONALITY

**DICOM COMPATIBILITY** – the DICOM gamma curve guarantees the precision of the display of medical images in various shades of grey and allows for calibration using GammaCompMD SW QA software (both locally and remotely).

**NEC DOUBLE SLOT TECHNOLOGY** – an ideal solution for integrating external cards (PC, MediaPlayer, CAT5 etc.) using an optional slot in order to avoid problems linked to the installation of third party products.

**CALIBRATION** – Functionality which is particularly useful for medical applications (DICOM pre-selection accessible from the OSD menu on the screen).

**CONNECTOR** – this screen offers a wide span of interfaces which allow for connecting sources and various video signals.

**PICTURE IN PICTURE** – allows for simultaneous display and management of two separate images on the same monitor, particularly within the medical environment.

**MONITORING VIA ETHERNET** – allows for remote screen management via the RS232 network interface.

**CERTIFICATION** – CE MDD Class 1 - IP55 casing - 46 inch panel

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