

"The RANZCR Standards have recommendations on monitor deliverables. We've always needed better image quality, better resolution, and the ability to see more on our screens. EIZO has exceeded our expectations."

Dr. Jeremy Sharr MBChB, FRANZCR  
(Managing Radiologist)



## IMPACT OF OFF-THE-SHELF MONITORS ON PRIMARY RADIOLOGIC REPORTING

Many non-diagnostic monitors, while making great claims, fail to comply with the RANZCR Standards.

"Our specialists have found off-the-shelf monitors to be unreliable, requiring repeated calibrations and inconsistencies across the screen", said Robert.

"When applied to clinical environments, they have been found to fail on almost every guideline set forth in the RANZCR Standards", he further emphasized.

When using off-the-shelf non-diagnostic monitors, specialists found that they didn't have reliable imaging chains, and there were inconsistencies when images were viewed from various Practices across the region. The monitors also tend to cost a lot in the long run. With poor after-sales support, when the monitors start causing problems, they must be replaced with new ones. The long-term cost of ownership, therefore, skyrockets.

## THE IMPORTANCE OF RANZCR'S 'STANDARDS OF PRACTICE FOR DIAGNOSTIC AND INTERVENTIONAL RADIOLOGY'

Adherence to RANZCR's stringent standards provides a high level of assurance to the team at Pacific Radiology in the quality of diagnostics. As RANZCR's standards

reflect international guidelines, Pacific Radiology is in a unique position to offer the best possible services to patients.

## DIAGNOSTIC MONITORS THAT ADHERE TO RANZCR'S STANDARDS SAVE LIVES

"Non-compliance with the RANZCR Standards always increases the chances of a misdiagnosis."

Using equipment that does not adhere with the RANZCR Standards increases the risk of a misdiagnosis. A misdiagnosis can have serious adverse effects on the patient, specialist and practice. Off-the-shelf monitors that do not comply with the Standards do not accurately represent what is happening. This is a critical

breakdown in the imaging chain. Misdiagnosis, for a patient, is profound. It can have a drastic impact on the patient's treatments and recovery time. This would lead to adverse effects for the specialists as well as the Practice.

In Pacific Radiology's quest to be the best, it depends on diagnostic monitors that comply with the RANZCR Standards.

## CENTRALLY CONTROLLED NATIONWIDE QA

- RadiNET Pro Network QC Management Software - Facilitates QC management of all EIZO monitors, across the national network from one centralised location.
- "RadicCS is our preferred DICOM calibration and client QC management tool. Whether we are calibrating a 5MP mammography monitor or an RX850, the software functions seamlessly -and it's so easy to use", said Robert. This has also paved the way for Pacific Radiology to train new staff members with ease across devices and geographic locations.
- Support service - "A radiologist's work demands maximum concentration without disruption. EIZO's national support helps us provide uninterrupted patient services."

*With nearly 50 branches throughout New Zealand and Australia, Pacific Radiology provides world-class medical imaging services using state-of-the-art equipment and the latest radiology techniques.*

*"To provide the best imaging services, we continue to invest in upgrading the infrastructure and related technologies such as Computer Aided Diagnosis"*

*Robert Wood, Computed Tomography Technologist at Pacific Radiology.*

*Being an industry leader not only means providing the best services, but also setting the standards for industry best practice. While some service providers remained complacent, Pacific Radiology played a pivotal role by embracing RANZCR's (Royal Australian and New Zealand College of Radiologists) 'Standards of Practice for Diagnostic and Interventional Radiology'.*

# EIZO + Pacific Radiology

## ENTER EIZO

Pacific Radiology invited EIZO to be a part of its specialists' workflows in 2009. Since then, almost 100 EIZO medical imaging monitors have been deployed, including the largest fleet of RadiForce RX850 8MP units in New Zealand.

## RADIFORCE RX850 8MP MONITOR

"We use the RadiForce RX850 in high workload areas like multi-modality diagnostics and mammography. The monitor's reliability has been proven, from the simplest ultrasound readings to complex mammography imaging, thus the preferred monitor by our team of radiologists."

The RadiForce RX850 is known for its:

- Precision Accuracy,
- Longevity,
- Reliability,
- Auto-calibration, and
- Industry-redefining guarantee.



### STREAMLINE YOUR WORKFLOW

Effectively replace a multi-monitor setup with an 8 megapixel screen capable of displaying all necessary image applications at once to streamline the radiology workflow.

### CONVENIENTLY VIEW IMAGES SIDE-BY-SIDE

Two screens from separate input signals can be displayed simultaneously on one monitor. The widescreen enables simple and exible operation without obtrusive bezels in between when viewing images side-by-side.

### VIEW MORE COMFORTABLY

The monitor's size was reduced to take up 37% less space than its predecessor, making viewing images on one screen more comfortable. In addition, the thin bezels contribute to less head and eye movement when used with a work list monitor.

### CREATE THE IDEAL ENVIRONMENT

The black front bezels are ideal for viewing the screen in dark reading rooms, making it easier to focus on images, while the original white stripe around the sides of the monitor presents a fresh, clean aesthetic.

### MAKE THE PRECISE DIAGNOSIS

EIZO carefully measures and sets each grayscale tone to create a monitor compliant with DICOM Part 14. This ensures the most consistent shading possible, allowing for the most accurate diagnosis.

### OPTIMIZE COLOR & MONOCHROME BRIGHTNESS

The Hybrid Gamma function distinguishes between monochrome and color images when viewed on the same screen, displaying each with optimal brightness and tones. This expands the usability of multimodality applications by allowing accurate review of a mix of color and monochrome images.

### VIEW FINE DETAILS CLEARLY

The super high-resolution screen displays 8 megapixels of information with a pixel pitch of 0.1704 mm for viewing medical images in exceptional detail. The monitor also offers a high contrast ratio of 1450:1 to accurately render ner details.

### ATTAIN STEADY IMAGES ACROSS THE SCREEN

The Digital Uniformity Equalizer (DUE) function helps to even out uctuations in brightness and chroma on different parts of the screen to provide smoother images.

### KEEP YOUR MONITOR LIT LONGER

The LED backlight offers a significantly longer service life over conventional CCFL backlights. In addition, 20,000 hours of usage time is guaranteed when used at the recommended brightness of 500 cd/m2.

### MANAGE EFFORTLESS QUALITY CONTROL

A built-in Integrated Front Sensor (IFS) measures brightness and grayscale tones to calibrate to DICOM Part 14. The IFS does not interfere with the viewing area while in use to cut workload and maintenance costs needed for monitor quality control

