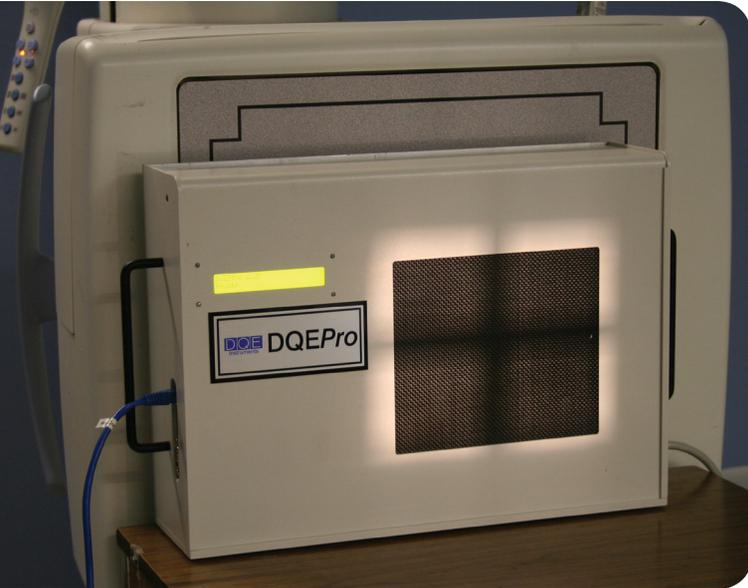


## DQEPro: Professional Instruments for Professional DQE Measurements

*A High Performance System for Assessing Digital X-ray Detector Performance*



DQEPro is a precision technical instrument for high-accuracy measurements of the detective quantum efficiency (DQE). Designed for the discriminating professional who needs to assess the performance of digital radiographic detectors quickly, confidently, and accurately, the user does not have to be an expert in DQE physics to obtain professional results. The integrated software automates both data acquisition and analyses to generate comprehensive reports with an accuracy that complies with the IEC 62220-1 standard.

By making the monitoring of x-ray detector performance inexpensive, rapid, and easy; DQEPro allows the measurement of DQE to be incorporated into any manufacturing program. DQEPro finds ready application within the regulatory compliance program or as a throughput tool during product development or quality control. DQE measurements no longer require dedicated

facilities, staff, or extensive training. Generating measurements no longer require dedicated facilities, staff, or extensive training. Completing tests in as little as 10 minutes, results are easily reviewed and can be archived in development or product specification logs. In addition, the comprehensive reports provide sufficient detail for the experienced engineer or scientist to dissect many aspects of digital system performance.

### What Information can DQEPro provide?

- Obtain imaging characteristics of detectors or systems
- Derive physical variables comprising DQE including spatial resolution (MTF), NEQ and detector sensitivity
- Identify stability of detector performance over time
- Determine upper and lower limits of DQE performance of detectors or systems
- Identify the nature of problems in sub-performing panels/detectors

### The Value of DQE to the Detector Developer and System Manufacturer

- Regulatory Compliance – Generate compliance data for FDA 510(K) filing
- Acceptance Testing – Ensure system performance to specification on install
- Quality Control – Ensure quality and certification of all OEM flat panels and outgoing systems
- Troubleshooting and Specification – Ensuring system complies to warranty specification
- Development Tool – Incorporate DQE measurements into product development and optimization programs
- Best Practices/Marketing and Goodwill – Customer assurance and performance competitive edge

### About DQE Instruments

Created by imaging professionals, for the generation of professional tools, DQE Instruments is dedicated to creating products that provide the most reliable and relevant performance data on the operation of digital medical imaging systems.

For more information, please call +1 (519) 777-6390

[www.dqeinstruments.com](http://www.dqeinstruments.com)

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