FUJIFILM FCR Mammography QC Program is a dedicated quality control (QC) program applicable to the FCR mammography system based on IEC61233-3-2 Ed. 2.0. This QC program enables quantitative measurements, visual inspections and functional checks on the entire mammography system including mammography equipment, FCR reader units, IPs, cassettes and viewing boxes, through the FCR installation test, followed by daily/weekly, quarterly, semi-annual and annual tests. This program provides the ability to detect gradual changes in the entire mammography system before potential problems occur and thus enables the system to keep a stable image quality for both screening and diagnostic mammography.

For digital mammography with superior quality and reliability

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Specifications and PC requirements are subject to change without notice.

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Not available in the United States and Canada.

**QC test items covered by FUJIFILM FCR Mammography QC program**

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<tr>
<th>Installation test</th>
<th>Quarterly test</th>
<th>Repeat analysis</th>
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<td>1. S value confirmation</td>
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<td>2. Inter Plate (IP) variation</td>
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<td>3. IP fog in storage area</td>
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<tr>
<th>Daily/Weekly test</th>
<th>Semi-annual test</th>
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</table>
| 1. Test with 1 Shot Phantom  
  - Missed tissue at chest wall side  
  - Contrast to noise ratio (CNR)  
  - System sensitivity constancy  
  - Geometric distortion  
  - System artifact  
  - Uniformity  
  - Dynamic range  
  - Spatial resolution (SR)  
  - Low contrast detectability (LCD)  
  - Linearity/Beam quality assessment | 1. S value confirmation  
  - Additive lag effects (Lag)  
  - Multiplicative lag effects (Ghosting)  
  - Missed tissue at chest wall side (40mm in height)*  
  - Visual and functional tests | |
| 2. Test with ACR phantom | 2. Spatial resolution test (Magnification) | |
| 3. Good practice (Cleaning)  
  - Mammography X-ray equipment  
  - IP/Cassettes  
  - Diagnostic monitors  
  - Viewing boxes | 3. X-ray equipment performance test  
  - kVp accuracy and reproducibility  
  - Half value layer (HVL)  
  - Collimation assessment  
  - Radiation output | |
| | 4. AEC system performance test  
  - AEC density control function  
  - AEC reproducibility  
  - CNR exposure mode n  
  - AGD exposure mode n | |

*This test is only required in limited countries/areas. Comply with local regulations/guidelines.

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**Applicable for:**  
1. FCR reader unit and IP/Cassette type  
   - FCR PROFECT CS/One (50µm/pixel image)  
   - IP: HR-BD, Cassette: Type DM  
   - FCR 5000MA Plus (50µm/pixel image)  
   - IP: HR-BD, Cassette: Type DM  
2. CR Console  
   - CR Console Ver. 5.0 or later

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**Test items evaluated by 1 Shot Phantom**

To perform the entire program, other measuring equipment and jigs in addition to 1 Shot Phantom are required.

**Test items covered by the FCR Mammography QC Program Guidebook**

- The “FCR Mammography QC Software,” designed for performing periodic QC, data analysis and managing the QC test log, is installed on the CR Console that is part of the FCR mammography system.

- The “FCR Mammography QC Program Guidebook” provides instructions on full procedures for quality control, technical explanations and other information necessary for this QC program.

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