

**CTB-00793****Date:** *December 21, 2020***Author:** Service Engineering, Tushita Patel**Product** Selenia Dimensions/3Dimensions      **Subsystem:** AWS**Subject:** I-View Imaging of Patients with Pacemakers and Implants

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**Purpose**

The purpose of this document is to provide guidance on I-View imaging (Contrast Enhanced Digital Mammography, or CEDM) on patients when Auto-filter cannot be used, such as for pacemakers or implants.

**Scope**

This document applies to all Selenia Dimensions and 3Dimensions systems licensed for I-View imaging.

**Reason**

CEDM can be useful for patients who are contraindicated for MRI. However, placement of the devices or the use of incorrect exposure techniques could lead to suboptimal dual energy subtracted images.

Some devices may result in more pronounced image processing artifacts. The processing algorithm tries to create a uniform skin line. The placement and size of the implant or pacemaker relative to the breast could impact the processing of the skinline and create undesirable effects in the dual energy subtracted image.

In addition, the system is calibrated to provide optimal subtraction at specific kV settings for each breast thickness. If the wrong kV setting is used, the subtraction may not be effective in removing tissue structure in the subtracted image.

**Instructions**

For pacemakers, it is recommended that the pacemaker be placed as far outside of the field of view as possible or as far away from the skinline as it can be placed.

Reference MAN-05856, 3Dimensions/Selenia Dimensions/Selenia Systems Implant Imaging Techniques User Instructions for guidance on the recommended imaging techniques with implants, which can also be applied for patients with pacemakers or whenever Auto-filter cannot be used.