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Method for Calibrating The Intensity Profile for a Movable X-Ray Source

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ABSTRACT

An imaging system and method for using the same is disclosed. The imaging system includes an x-ray detection array or plurality of detection arrays, a point x-ray source, and a controller. The point x-ray source moves relative to a detection array, each of the x-ray
10 detectors subtending a solid angle at the point source that depends on the relative position of the point source and the detection array and on the location of the detector in the detection array. The signal generated by each x-ray detector depends on a calibration parameter that is independent of the solid angle subtended by that x-ray detector at the point source. The
15 controller stores a table of calibration values that determines the calibration parameter for each of the x-ray detectors. The controller corrects the signals generated by the x-ray detectors for solid angle and for variations in the calibration parameter.

FIG. 2 ACCOMPANIES THIS ABSTRACT



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