

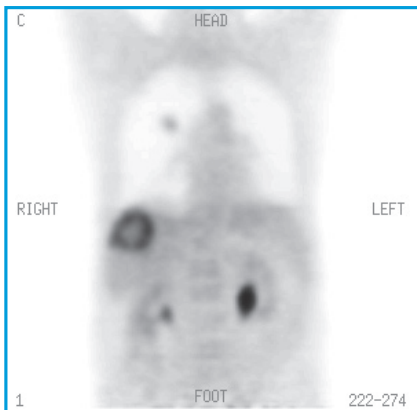
# **CurvePlate™** Gamma Camera Detector Plate

The CurvePlate™ scintillation detector is a true innovation in nuclear medicine imaging. The advantage of the curved geometry compared to planar geometry is a superior quality image. The detector can be brought closer to the body across the field of view. In addition, the distance from an event to the photomultiplier tube is more consistent as a result of a reduction in the parallax error. The excellent energy resolution makes post-injection transmission scans possible, reducing motion artifacts in the images and greatly decreasing total scan time.

CurvePlate™ detectors have been used in a dedicated PET systems. Clinical results have confirmed the value of the CurvePlate™ detector in heart, brain and abdomen studies. The image below, provided by ADAC Laboratories/UGM Medical Systems, shows a lung tumor and liver metastasis as viewed by a system using CurvePlate™ detectors.

#### **Benefits -**

- Improved attenuation-corrected image quality. (Figure 1)
- Improved spatial resolution. (Figures 2 and 3)
- Count pile-up is reduced, thereby improving image resolution.



*Image as viewed by system using CurvePlate™ detectors was provided by ADAC Laboratories, A Philips Medical Systems Company*

#### **Design Considerations -**

The CurvePlate™ detector is designed to particular OEM requirements. All dimensions including radius, thickness, length and width may be defined by the application.



# CurvePlate™

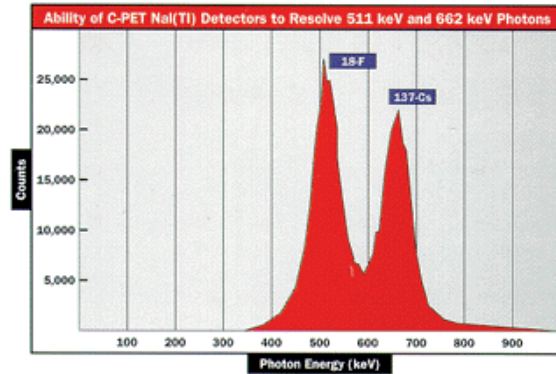
## Gamma Camera Detector Plate

### Performance Comparison -

Figure 1. Superior energy resolution for separation of emission and transmission photopeaks. Allows a post-injection scan protocol.

Benefit

- Improved attenuation-corrected image quality.



Graph courtesy of ADAC Laboratories, a Philips Medical Systems Company

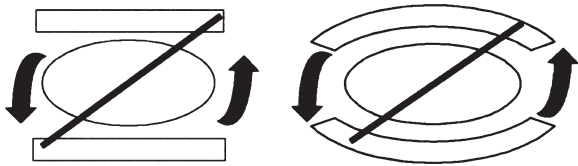


Figure 2. In coincidence imaging, curve minimizes parallax offset found in thick flat plates.

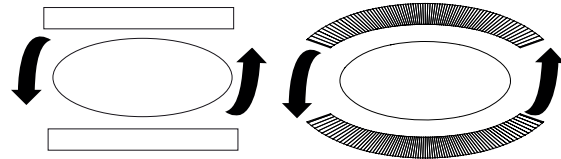
Benefit

- Improved spatial resolution and, as a result, improved reconstruction of the image.

Figure 3. In SPECT imaging, the CurvePlate™ detector brings the collimator closer to the body.

Benefit

- Improved spatial resolution.



Manufacturer reserves the right to alter specifications.

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