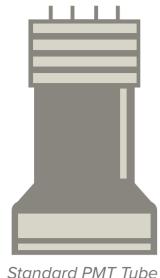


A CLOSER LOOK AT

SOLID-STATE GAMMA TECHNOLOGY





Solid State

Detector Heads Solid-State vs. Analog

One of the most noticeable differences between solid-state and analog nuclear imaging is the size of the detector heads.

Analog gamma cameras use photomultiplier tubes (PMTs) and hygroscopic sodium iodide (NaI) crystals which require a significant amount of space.

How big is the difference?

Anger heads can weigh as much as 600 pounds while a solid-state head can range between 25 and 90 pounds.





THAT'S OVER 600% LIGHTER

Solid State = **Pixelated Detector**



To locate the event using analog technology the data has to be "summed" by a software application. Solid-state technology uses a pixelated detector that identifies exactly where the gamma ray photon is emitted from. So X really does mark the spot.

Csl

Cesium

Indirect Conversion

uses cesium iodide

(Csl) with a photodiode.

IT'S ALL SOLID-STATE

Zinc **Telluride**

Cadmium

CZT

Direct Conversion uses cadmium zinc

telluride (CZT)

lodide

Each method produces a higher quality image compared to Anger

compared to CZT cameras.

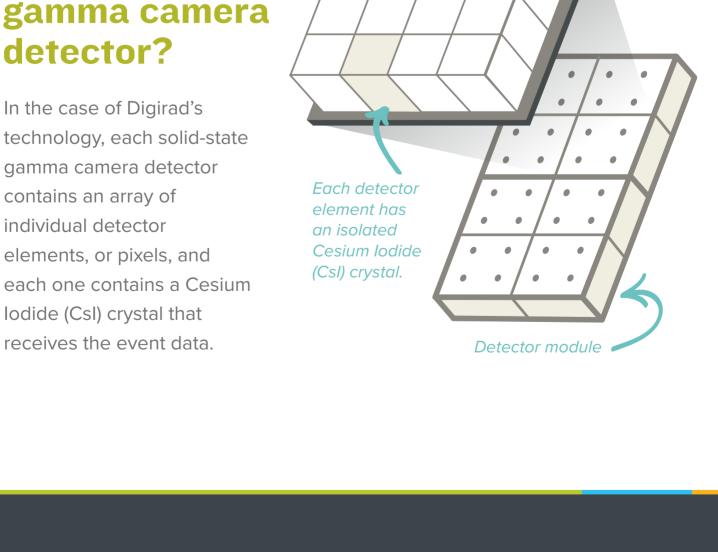
types of solid-state nuclear imaging technology



technology, and many practices find CsI to be more cost effective

detector? In the case of Digirad's technology, each solid-state gamma camera detector contains an array of

individual detector elements, or pixels, and each one contains a Cesium lodide (CsI) crystal that receives the event data.





leader in delivering diagnostic expertise on an as needed, when

needed, where needed basis.

Digirad Digirad makes healthcare convenient. We are the nationwide

For more information about Digirad's Solid-State

gamma cameras visit www.digirad.com