

VERITON-CT SPECT/CT

With one glance at the VERITON, it's clear the SPECT/CT scanner has a unique, innovative design. Spectrum Dynamics Medical built the VERITON with a new generation imaging technology like no other, wrapping 360° around the body's contour for a personalized exam. The heart of the innovation is in a set of 12 digital CZT detectors that automatically move within millimeters of the patient's body. The 3D hybrid digital scanner gives clinicians comprehensive information to help diagnose with confidence and accuracy.

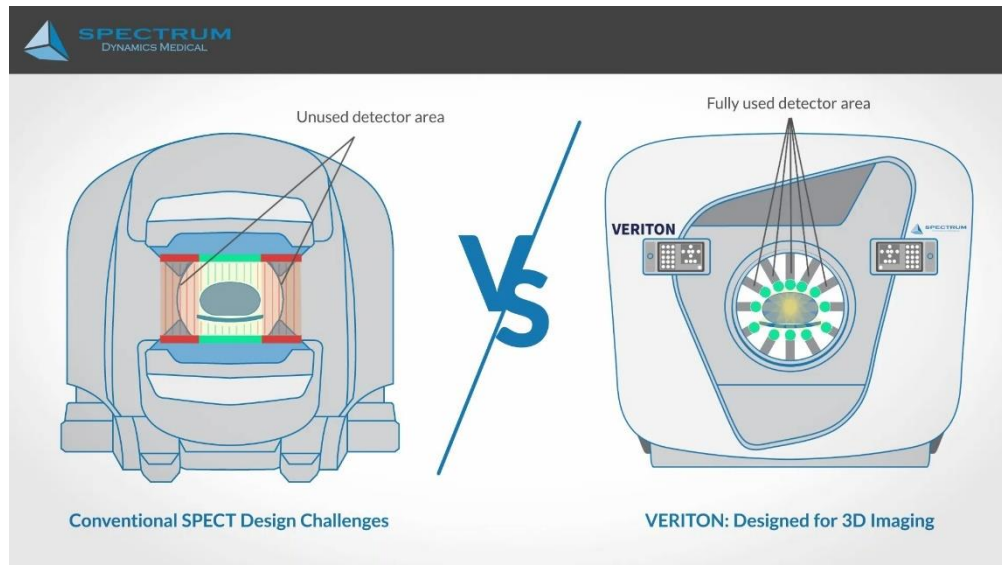


Because the digital detectors snugly surround the patient to sense maximum photons, the 3D image quality reveals more detail than planar, Anger-based images. The multipurpose SPECT/CT system scans from head to toes in NM/CT hybrid mode, maximizing routine clinical utilization and providing detailed information in a single 3D scan. Avoid the need to request extra views—easier on the patient.

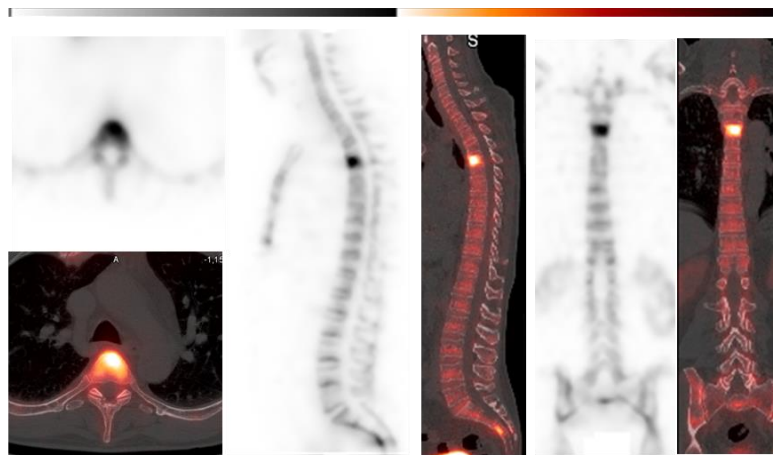


In the past, converting a dual-head camera to more expensive CZT technology without a broader clinical impact offered too little value. That's why Spectrum Dynamics engineers took the bold step to

change the shape of scanning with 360° CZT design, which improves sensitivity to a point that the system can truly affect change. Without the historical dual-head design barriers, VERITON delivers proximity and efficiency, resolving complex imaging challenges without the traditional tradeoffs.



Consolidating digital SPECT and diagnostic CT capabilities (16 or 64 slices, scalable to 128) can free a room for another income-generating technology. Clinicians can use the high-resolution, low-dose CT scan data, not only for attenuation correction and localization, but also to routinely reconstruct SPECT data with partial volume correction (PVC) for improved contrast and resolution. CT image quality tools, such as metal artifact reduction, LISA low-dose iterative reconstruction and dose modulation, are standard features of the VERITON-CT configuration to meet the needs of demanding nuclear medicine and radiology departments.



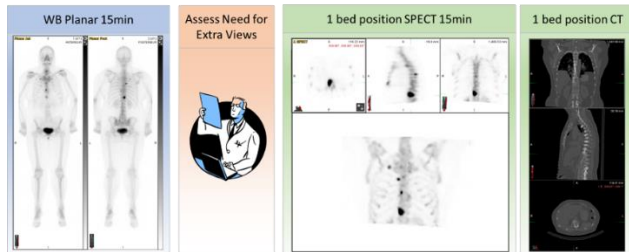
Courtesy of CHRU, Nancy, PhD L. Imbert

The system has the same core detector technology as Spectrum's earlier D-SPECT cardiac scanners, used at leading centers worldwide for over a decade. The 80 cm bore size is the widest available in SPECT/CT to accommodate large patients, and the moveable arms help with pediatric scanning. The arms automatically pull back if the patient accidentally touches them, reassuring people who might feel claustrophobic.



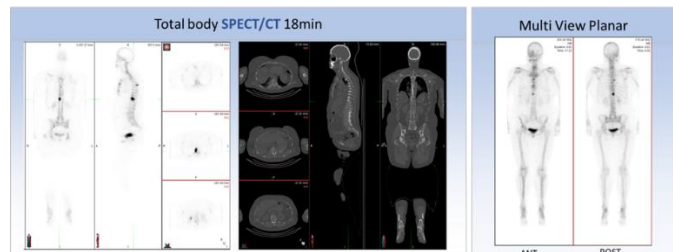
Improved lesion detection could be just the start. One total body acquisition result in a 3D view with PET-like slices, shortening exam times, and the imaging efficiency allows a lower injected dose. Those operational changes can transform the way imaging is scheduled and carried out.

Transition from Analog NaI Bone Workflow



Planar + Limited SPECT/CT = 30min

To Digital 360° CZT VERITON Total Body Workflow

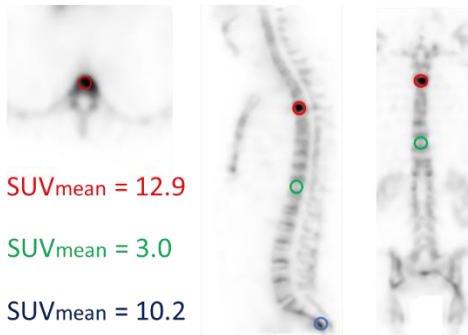


Total Body SPECT/CT + Multi View Planar = 18min

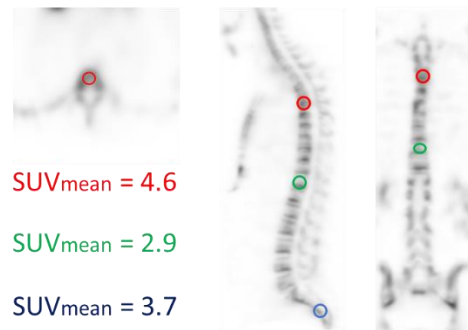
Total body SPECT/CT workflow, 2m continuous coverage during a hybrid acquisition, allows for efficiency and additional information when compared to a planar whole-body scan, plus an additional, localized SPECT/CT scan. The final 3D images are corrected for attenuation, partial volume effect and can be used to generate multi-view planar (MVP) images, if required.

The VERITON-CT Operator's Console allows for true multi-tasking: acquisition, reconstruction, and quantitative post processing of the 3D data. Image tool kit includes advanced reconstruction algorithms to ensure quantitative accuracy

2019-06-18 - baseline pre-therapy



2019-09-17 - follow-up post therapy



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Medical centers that upgrade from SPECT or replace an older SPECT/CT system with 360° digital system appreciate the fully quantitative images for groundbreaking research, treatment follow-up and dosimetry. Plus, VERITON allows departments to add new applications not currently offered and lost to other imaging modalities. Nuclear medicine is growing through digital advancements, and VERITON-CT helps hospitals differentiate with first-in-class technology to secure talent, research grants and revenue in competitive markets.



All Spectrum Dynamics systems can be purchased via the NHSSC and NHSSBS frameworks from Link Medical Limited:
0118 932 6850
www.linkmed.co.uk

