About GE Healthcare

GE Healthcare provides transformational medical technologies and services that are shaping a new age of patient care. Our broad expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, biopharmaceutical manufacturing technologies, performance improvement and performance solutions services helps our customers to deliver better care to more people around the world at a lower cost. In addition, we partner with healthcare leaders, striving to leverage the global policy change necessary to implement a successful shift to sustainable healthcare systems.

Our “healthymagination” vision for the future invites the world to join us on our journey as we continuously develop innovations focused on reducing costs, increasing access and improving quality and efficiency around the world. For more information about GE Healthcare, visit our website at www.gehealthcare.com

GE Healthcare
3000 N. Grandview Blvd.
Waukesha, WI 53188
U.S.A.
www.gehealthcare.com

LightSpeed® VCT XT
On the Discovery™ PET/CT 690
XTend your vision in CT. With less dose.

Combining volume coverage, superior resolution and reduced dose, the LightSpeed VCT XT makes imaging difficult patients routine and advanced CT studies simple.

**Faster CT acquisitions.**

**Volume CT technology.**

Advanced CT scanning, processing and image management applications dramatically reduce CT acquisition times. Image static organs in just one second, the lung in just two seconds and the whole body in under 10 seconds.

**True Volume coverage with sub-millimeter resolution.**

V-Res” detector

The LightSpeed VCT XT delivers true 64-channel Volume CT, with microVoxel™ isotropic CT Volume image quality, 2-axis resolution up to 0.35 mm and 60-mm axial coverage for more robust, repeatable studies.

**Proven reliability.**

Cross all studies.

Performix™ Pro 100 X-ray tube

The exceptional power of the Performix Pro 100 X-ray tube assures you of reliable image quality at fast rotations and in large patients.

**Shorter breath-holds for faster exams.**

64-slice CT data acquisition

Producing a 0.625-mm slice thickness in a 0.35-second gantry rotation, the 64-slice LightSpeed VCT XT helps shorten patient breath-holds to streamline studies.

**Remarkable reductions in dose.**

Dramatic dose reductions are designed into the LightSpeed VCT XT. Its 5-Beat Cardiac™ with SnapShot™ Pulse technique reduces dose up to 83%, and Volume Shuttle™ doubles coverage without extra dose in neuro exams.

GE’s OptiDose™ extends the Discovery PET/CT 690’s inherent dose-reduction capabilities, while other dose-management techniques – such as 3D Dose Modulation with SmartmA™ and AutomA™, ECG Dose Modulation and SmartHelical™ – all help you effectively manage CT radiation dose to your patients.

**Neuro perfusion and angiographic studies in one exam.**

Volume Shuttle™ on the LightSpeed VCT XT doubles Z-axis coverage to 80 mm for neuro perfusion studies with angiographic information – delivering twice the anatomical coverage without increasing radiation dose compared to a single axial acquisition. And with Stroke Workup, you can scan 40 mm of coverage in a single rotation.

**Exceptional oncology studies.**

LightSpeed VCT XT performs routine oncology exams flawlessly, with the superb image quality you naturally expect from a system with the lineage of LightSpeed. Obtain a volumetric acquisition for a detailed lesions study and follow-up. And customize scans on children when dose quantity and image clarity are crucial.

**Breathtaking cardiac imaging.**

GE’s exclusive 5-Beat Cardiac™ with SnapShot™ Pulse lets you image coronary arteries in just five seconds with up to 83% less radiation dose – and superb image quality equal to conventional helical scans.

**Maximize your return.**

Approximately half of all PET/CT system owners do CT-only scans – and use their systems for those CT-only studies about half of the time.

With the remarkable technology, applications and clinical capabilities of the GE Light-Speed VCT XT, you can run your Discovery PET/CT 690 as a CT-only scanner when not performing PET/CT studies, to get the most return from your imaging system investment.

A trusted platform. Proven technology. Three thousand systems installed worldwide. The GE LightSpeed VCT XT brings exceptional CT imaging power to the Discovery PET/CT 690.
XTend your vision in CT. With less dose.

Combining volume coverage, superior resolution and reduced dose, the LightSpeed VCT XT makes imaging difficult patients routine and advanced CT studies simple.

Faster CT acquisitions.
Volume CT technology
Advanced CT scanning, processing and image management applications dramatically reduce CT acquisition times. Image static organs in just one second, the lung in just two seconds and the whole body in under 10 seconds.

True Volume coverage with sub-millimeter resolution. V-Res™ detector
The LightSpeed VCT XT delivers true 64-channel Volume CT, with microVoxel™ isotropic CT Volume image quality, 2-axis resolution up to 0.35 mm and 40-mm axial coverage for more robust, repeatable studies.

Proven reliability
Cross all studies. Performix™ Pro 100 X-ray tube
The exceptional power of the Performix Pro 100 X-ray tube assures you of reliable image quality at fast rotations and in large patients.

Shorter breath-holds for faster exams.
64-slice CT data acquisition
Producing a 0.625-mm slice thickness in a 0.35-second gantry rotation, the 64-slice LightSpeed VCT XT helps shorten patient breath-holds to streamline studies.

Exceptional oncology studies.
LightSpeed VCT XT performs routine oncology exams flawlessly, with the superb image quality you naturally expect from a system with the lineage of LightSpeed. Obtain a volumetric acquisition for a detailed lesions study and follow-up. And customize scans on children when dose quantity and image clarity are crucial.

Remarkable reductions in dose.
Dramatic dose reductions are designed into the LightSpeed VCT XT. Its 5-Beat Cardiac™ with SnapShot™ Pulse technique reduces dose up to 83%, and Volume Shuttle™ doubles coverage without extra dose in neuro exams.

GE’s OptiDose™ extends the Discovery PET/CT 690’s inherent dose-reduction capabilities, while other dose-management techniques — such as 3D Dose Modulation with SmartmA™ and AutomA™, ECG Dose Modulation and SmartHelical™ — all help you effectively manage CT radiation dose to your patients.

Maximize your return.
Approximately half of all PET/CT system owners do CT-only scans — and use their systems for those CT-only studies about half of the time.

With the remarkable technology, applications and clinical capabilities of the GE LightSpeed VCT XT, you can run your Discovery PET/CT 690 as a CT-only scanner when not performing PET/CT studies, to get the most return from your imaging system investment.

Neuro perfusion and angiographic studies in one exam.
Volume Shuttle™ on the LightSpeed VCT XT doubles Z-axis coverage to 80 mm for neuro perfusion studies with angiographic information — delivering twice the anatomical coverage without increasing radiation dose compared to a single axial acquisition. And with Stroke Workup, you can scan 40 mm of coverage in a single rotation.

Breathtaking cardiac imaging.
GE’s exclusive 5-Beat Cardiac™ with SnapShot™ Pulse lets you image coronary arteries in just five seconds with up to 83% less radiation dose — and superb image quality equal to conventional helical scans.

Total X-ray exposure time: 1.9 seconds
Total radiation dose: 6.1 mSv

A trusted platform. Proven technology. Three thousand systems installed worldwide.
The GE LightSpeed VCT XT brings exceptional CT imaging power to the Discovery PET/CT 690.
About GE Healthcare

GE Healthcare provides transformational medical technologies and services that are shaping a new age of patient care. Our broad expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, biopharmaceutical manufacturing technologies, performance improvement and performance solutions services helps our customers to deliver better care to more people around the world at a lower cost. In addition, we partner with healthcare leaders, striving to leverage the global policy change necessary to implement a successful shift to sustainable healthcare systems.

Our “healthymagination” vision for the future invites the world to join us on our journey as we continuously develop innovations focused on reducing costs, increasing access and improving quality and efficiency around the world. For more information about GE Healthcare, visit our website at www.gehealthcare.com

GE Healthcare
3000 N. Grandview Blvd.
Waukesha, WI 53188
U.S.A.
www.gehealthcare.com