160-Slice wide bore CT that leverages the premium technology synonymous with the Aquilion range. By achieving the perfect balance between performance and cost, the Aquilion Lightning 160 is the smarter investment.
TRANSFORMING CLINICAL CONFIDENCE

By combining the latest in dose efficient technologies with the right applications, the Aquilion Lightning 160 increases your ability to make a confident diagnosis.

- PURE VISION 0.5 mm detector for unparalleled resolution on all planes
- AIDR 3D Enhanced Integrated dose reduction technologies
- Routine low dose imaging for all your patients regardless of size
- Expand clinical capability with extended 70 cm FOV (Field of View)
- Adaptive Diagnostics is a suite of clinical applications for automated reliable and robust results
40% MORE EFFICIENT DETECTOR

The Aquilion Lightning 160 is equipped with the same detector technology as our premium Aquillion PRIME and ONE series scanners. The 80-row 160-slice PURE ViSION detector with industry-leading 0.5 mm element size delivers razor-sharp, fully isotropic images in all planes.

By making more efficient use of X-rays, the innovative detector allows you to minimise patient dose while improving image quality.
25% FASTER
FAST ULTRA-HELICAL SCANNING
Shifting from 64 to 80 detector rows with the Aquilion Lightning 160 results in shorter scan times with reduced iodine volumes, less motion artifacts and higher quality imaging.

THE RIGHT DOSE
EVERY PATIENT. EVERY TIME.
Adaptive Iterative Dose Reduction (AIDR), the industry’s most comprehensive dose management technologies that automatically optimises dose for every procedure and every patient.

EXPAND CLINICAL CAPABILITY
70 CM EXTENDED FOV
A wide 70 cm extended Field of View* (FOV) provides a more accurate body outline for off-center imaging, very obese patients or radiotherapy planning.

*Option
MAXIMUM CLINICAL CAPABILITIES
RIGHT APPLICATIONS TO MAKE A CONFIDENT DIAGNOSIS

Aquilion Lightning 160 offers a comprehensive suite of clinical solutions to make complex exams easier and improves diagnostic precision and reproducibility.

- **SURE SUBTRACTION***: Bone-free imaging
- **SEMAR**: Metal artifact reduction
- **IODINE MAPPING***: Lesion detection
- **DUAL ENERGY***: Tissue characterisation
- **THREE PHASE VHP***: 3-exams-in-one complex CTA
- **SURE CARDIO***: Prospective helical

*Option
TRANSFORMING PATIENT EXPERIENCE

THE AQUILION LIGHTING 160 IS DESIGNED SO ALL OF YOUR PATIENTS RECEIVE THE BEST EXPERIENCE POSSIBLE.

- Spacious 780 mm wide bore and widest 470 mm patient couch to ensure comfortable scanning for even the largest of patients
- Longest scan range of up to 2030 mm so patients do not need to be repositioned for multi-region exams*
- Lowest minimum couch height of 312 mm for facilitating transfer from a wheelchair or bed
- Faster scan times for shorter breath holds and reduced contrast usage

*Option
FAST AND EFFICIENT PATIENT SETUP

The Aquilion Lightning 160 gantry features design innovations that improve the scan experience for patients while providing excellent operability and work safety for the technician.

Spacious 780 mm wide bore and 470 mm wide patient couch allow comfortable scanning for large patients.

Couch top can be lowered to a minimum height of 312 mm for facilitating transfer from a wheelchair or bed.

Tech Assist Lateral Slide* ensures safety and comfort by providing motorised positioning of the patient, reducing the risk of injury to the patient and the technologist.

Faster scan times for shorter breath holds and reduced contrast usage. **25% FASTER**

i-Station child-friendly exams, gives operators feedback for breath-holding, ECG, scan parameters and patient ID.

*Option
TRANSFORMING YOUR WORKSPACE

Engineered to meet today’s clinical and economic challenges, the Aquilion Lightning’s compact and efficient design will enhance your workspace and improve your workflow.
ECONOMISE ON SPACE AND ENERGY CONSUMPTION

With the smallest footprint in its class, the Aquilion Lightning 160 requires less space for installation and reduces energy consumption.

- Minimum installation space
- Up to 25% less energy consumption
- Easily installed into existing rooms
- Most compact and efficient design for greater workspace flexibility

UP TO 25% LESS ENERGY CONSUMPTION^ Aquilion Lightning 160 incorporates a host of innovative adaptive power management technologies, helping you to decrease energy consumption and reduce your running costs while minimising your environment footprint.

STREAMLINE WORKFLOW FROM PATIENT SET-UP TO DIAGNOSIS

Aquilion Lightning 160 is designed to handle busy workloads with ease. The system’s intuitive user interface guides you step by step through the examination with modern and easy-to-understand graphics and animations. A host of intelligent functions enable a fast and efficient workflow.
TRANSFORMING YOUR WORKSPACE

PROTOCOL SELECTION
After patient registration Aquilion Lightning 160 selects the correct adult or child protocols automatically.

SUREEXPOSURE 3D
This fully integrated automatic exposure control ensures optimum image quality for each patient at the lowest possible dose.

AUTOMATED MPR
Pre-program multi-planar image reconstruction in Average, MIP and MinIP projections to occur automatically for faster workflow.

AIDR 3D ENHANCED
Our Advanced Iterative Dose Reduction or AIDR 3D technology can be applied to all examinations resulting in dose reductions of up to 75% in daily routine.

ZERO-CALL WORKFLOWS
Fully automated algorithms such as SURESubtraction* and Dual Energy* allow you to diagnose with outstanding ease of use. The zero-click algorithms provide superior IQ without manual interference and/or post-processing. This will save valuable time and generates the same result in all your patients.

REAL-TIME IMAGING
The system provides real-time imaging during the scan allowing you to monitor the result instantaneously – a valuable tool for saving scan time and radiation dose.

ADVANCED 3D RECONSTRUCTION
Powerful 3D software with one click processing and automatic bone removal to take axial datasets into high quality 3D color rendered and MIP displays.

FAST RECONSTRUCTION*
With a reconstruction speed of up to 50 images per second* at full resolution, rapid diagnosis and high patient throughput are facilitated.

AUTOMATED KV SELECTION
SUREkV automatically uses the lowest kV setting for CTA examinations. To further save iodine volume.

*Option
## Main Specifications

<table>
<thead>
<tr>
<th>Detector</th>
<th>PUREViSION Detector</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>80 rows of 0.5 mm</td>
</tr>
<tr>
<td></td>
<td>160 slices</td>
</tr>
<tr>
<td>Gantry</td>
<td>Rotation Time</td>
</tr>
<tr>
<td></td>
<td>0.75 / 0.50*</td>
</tr>
<tr>
<td></td>
<td>Generator</td>
</tr>
<tr>
<td></td>
<td>Effective 112 kW max. equivalent with AIDR 3D</td>
</tr>
<tr>
<td></td>
<td>Bore Aperture</td>
</tr>
<tr>
<td></td>
<td>780 mm</td>
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<tr>
<td></td>
<td>Tilt</td>
</tr>
<tr>
<td></td>
<td>30 degrees</td>
</tr>
<tr>
<td>Patient Couch</td>
<td>Max. Load</td>
</tr>
<tr>
<td></td>
<td>205 kg / 300 kg*</td>
</tr>
<tr>
<td></td>
<td>Max. Scan Range</td>
</tr>
<tr>
<td></td>
<td>1500 / 1800 / 2030 mm*</td>
</tr>
<tr>
<td>Reconstruction Speed</td>
<td>Helical</td>
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<tr>
<td></td>
<td>20 fps / 50 fps*</td>
</tr>
<tr>
<td>Reconstruction</td>
<td>Iterative Reconstruction</td>
</tr>
<tr>
<td></td>
<td>AIDR 3D Enhanced</td>
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<tr>
<td></td>
<td>FOV</td>
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<tr>
<td></td>
<td>500 mm / 700 mm*</td>
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<tr>
<td>Installation</td>
<td>Power Capacity</td>
</tr>
<tr>
<td></td>
<td>50 kVA / 72 kVA*</td>
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<tr>
<td></td>
<td>Min. Installation Space</td>
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<tr>
<td></td>
<td>9.8 m² (short couch)</td>
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</tbody>
</table>

*Option
Made For life