Gammex 432-BRN CT灌注成像模体
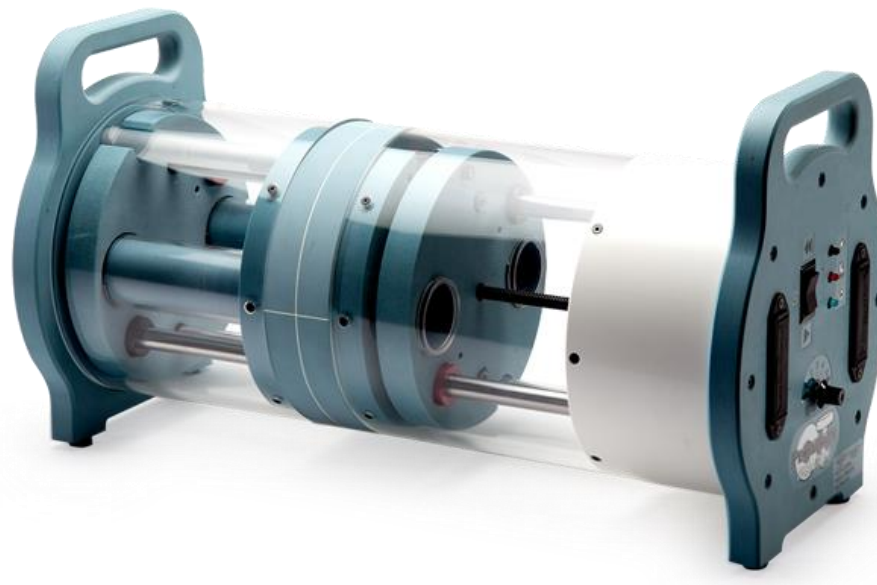
确保CT扫描仪和灌注软件能提供一致的结果，实施质量控制程序，确保每次都遵守剂量协议，并控制放射剂量。

Gammex 432 –BRN 灌注成像模体，是目前市面上唯一一款一体化CT灌注成像模体。

Gammex 432-BRN CT灌注成像模体-参数

| 1	技术参数	1,5	静脉棒：模拟造影剂注射后静脉血流的16个离散部分血流速度
1.1	盖及外壳材质：PVC、丙烯酸	1.6	组织棒（2个）：16个高等效脑组织模拟切片，模仿注射造影剂后的组织摄取率。
1.2	剂量口：标准CT曲面上的光线锥	1.7	速度设置（毫米/秒）：1.31，1.50，1.75，2.63，2% + / - 2.10
1.3	中心扫描盘材料：高等效脑模拟材料	1.8	杆行程距离：10.5厘米
1.4	动脉棒：模拟造影剂注射后动脉血流的16个离散部分血流速度	1.9	功率：8节AA电池
2配置及尺寸			
2.1	整体尺寸（长/宽/高）：55.5×25.4×30.5厘米	2.3	中央扫描盘：直径12.7mm
2.2	重量：13.6公斤	2.4	包括特别定制的防水硬壳外箱，以便于运输及储存安全。内置的楔形用以固定。

CT **Perfusion** Phantom

Gain greater confidence in your perfusion studies.

- An easy-to-use contrast simulation tool
- Help ensure your CT scanner and perfusion software are providing consistent results
- Generate precise time-attenuation curves (TAC)
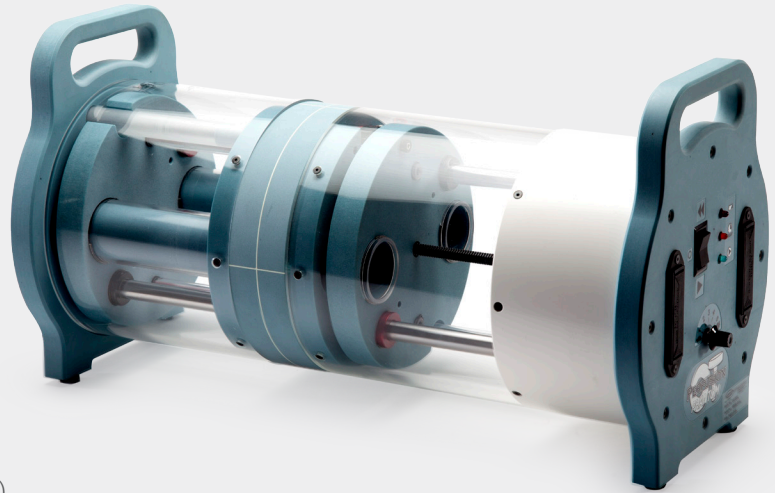
CT brain perfusion studies can play a key role in evaluating many disorders, including stroke, and help to identify patients who may benefit from thrombolytic therapies. The CT Perfusion Phantom helps ensure that your CT scanner and perfusion software are providing you consistent results.

The CT Perfusion Phantom is designed to mimic the injection of a contrast bolus into a region of interest allowing you to generate precise time-attenuation curves (TAC), of differing velocities, to better monitor your CT Perfusion program, and patients. Once you benchmark perfusion rates and TACs for each system using the phantom, you will be better positioned to know if future measurements show a true change, or if follow-up results are within the precision error of the measurements. Use the dose port to optimize imaging and perfusion protocols and results at the lowest possible dose.

Time-Attenuation Curves
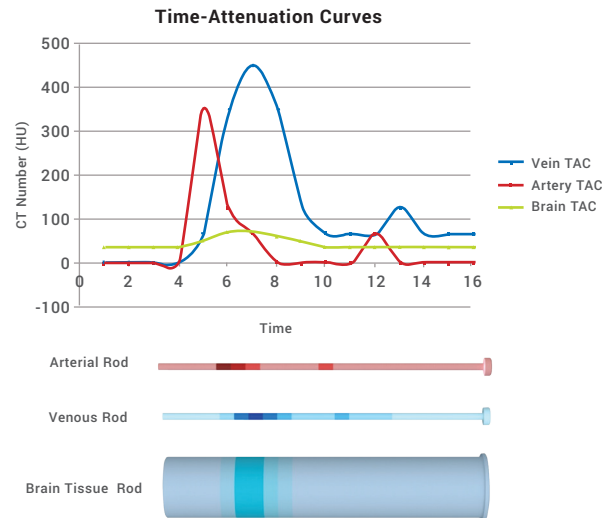
Differing concentrations of simulated blood and contrast move from, arteries, to veins to brain tissue including contrast recirculation.

# The CT Perfusion Phantom can help you stay compliant.

Examples of CT Perfusion Guidelines

ACR CT Perfusion recommendations[1]

- Technique parameters affecting the radiation dose (kVp, mA and beam collimation) should be optimized for each scanner type so that diagnostic quality images and maps are produced at minimum radiation dose.

FDA recommendations for CT Perfusion studies[2]

- Review your radiation dosing protocols for all CT perfusion scans to ensure that the correct dose is planned for each study. Any change to the default protocol should be cleared through the facility's quality assurance program and be approved for image quality and dose by the radiologist and physicist.

- Implement quality control procedures to ensure that dosing protocols are followed every time, and that the planned amount of radiation is administered.
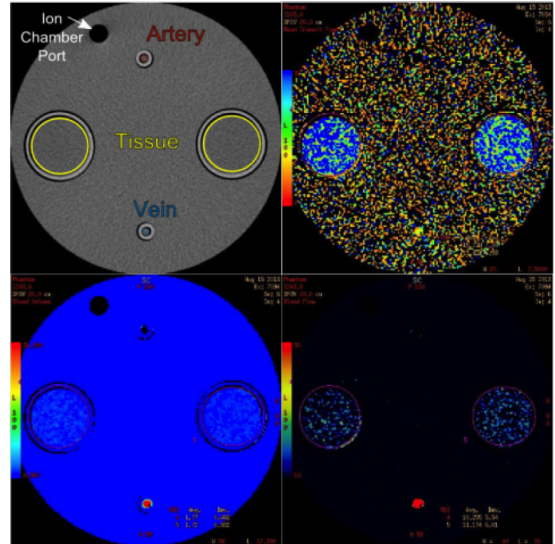
Example brain perfusion maps at phantom speed 3 (1.75 mm/sec)

Specifications

Covers and housings:	PVC, Acrylic
Dosimetry Port:	Standard CT Pencil Cambers up to 12.7 mm (0.5in) diameter
Central Scan Disk:	High Equivalency (HE) Brain Mimicking Material
Artery Rod:	16 discrete sections of blood and contrast simulating materials to mimic arterial flow rates following a contrast bolus injection
Vein Rod:	16 discrete sections of blood and contrast simulating materials to mimic venous flow rates following a contrast bolus injection
Tissue Rods (Qty 2):	HE Brain Mimicking Material of 16 discrete sections of brain tissue to mimic tissue uptake rates following a contrast bolus injection
Velocity settings (mm/second):	1.31, 1.50, 1.75, 2.10, 2.63 +/- 2%
Rod Travel Distance:	10.5 cm (4.1 in)
Dimensions(L/ W/H):	55.5 x 25.4 x 30.5 cm (22 x 10 x 12 in)
Power:	8 AA batteries (included)
Weight:	13.6 kg (29.9 lbs)

Accessories

- AA Batteries (included)
- Wheeled hard case with watertight seal