GE HealthCare

Revolution™ Maxima

Upgrade

There is so much more you can do with your Revolution Maxima

Clinical and operational practices are evolving fast, driving challenges like higher exam volumes, stricter dose requirements and added procedures — all while preserving patient care and staff satisfaction.

As your needs shift, so should your scanner. With Revolution Maxima, users can tackle emerging challenges and boost clinical and operational capabilities without buying new equipment.

A new era of imaging is here. The Revolution Maxima is ready to lead the way.


Johnathan Moore
PAUSE
Johnathan Moore
PAUSE

A new console generation upgrade for your need for speed

Our next generation console is designed to enhance the performance and capabilities of your Revolution Maxima

Improved reconstruction speed

Up to 70 fps
of improved image reconstruction speeds

40% faster
compared to the previous console

Image storage boosted

Simpler console data storage management

Up to 3x more images
can be stored on the console

Faster workflow

Faster workflow for **every kind of examination** providing **shorter exams** and better **patient comfort**

Thanks to **faster image recon speeds,** you spend less time waiting for the whole exam completion, even for more complex procedures

Increased thoroughput

Faster image reconstruction speeds help to **improve scan efficiency** and may help increase daily exam workload

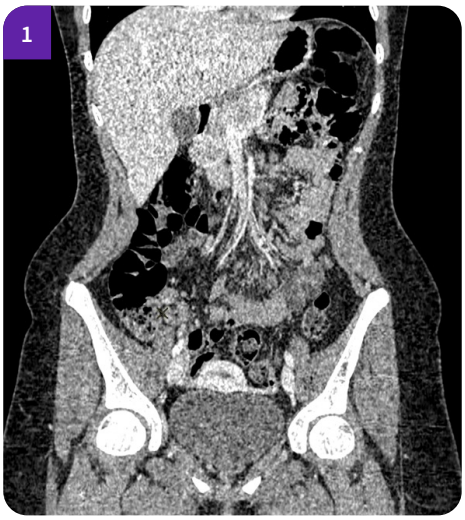
Enter in the era of deep learning image reconstruction

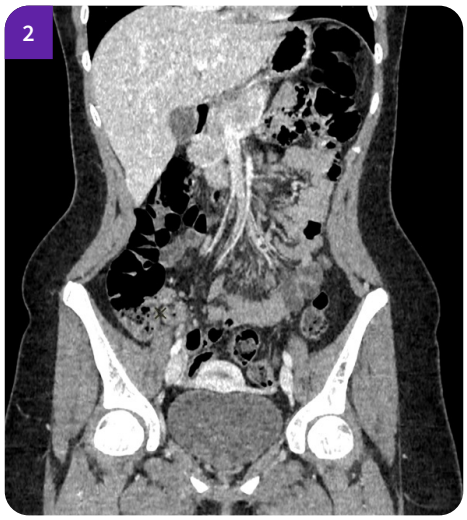
TrueFidelity™ DL

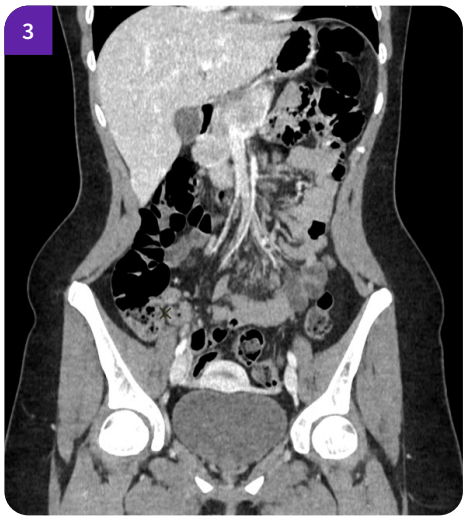
Deep learning for a deeper understanding

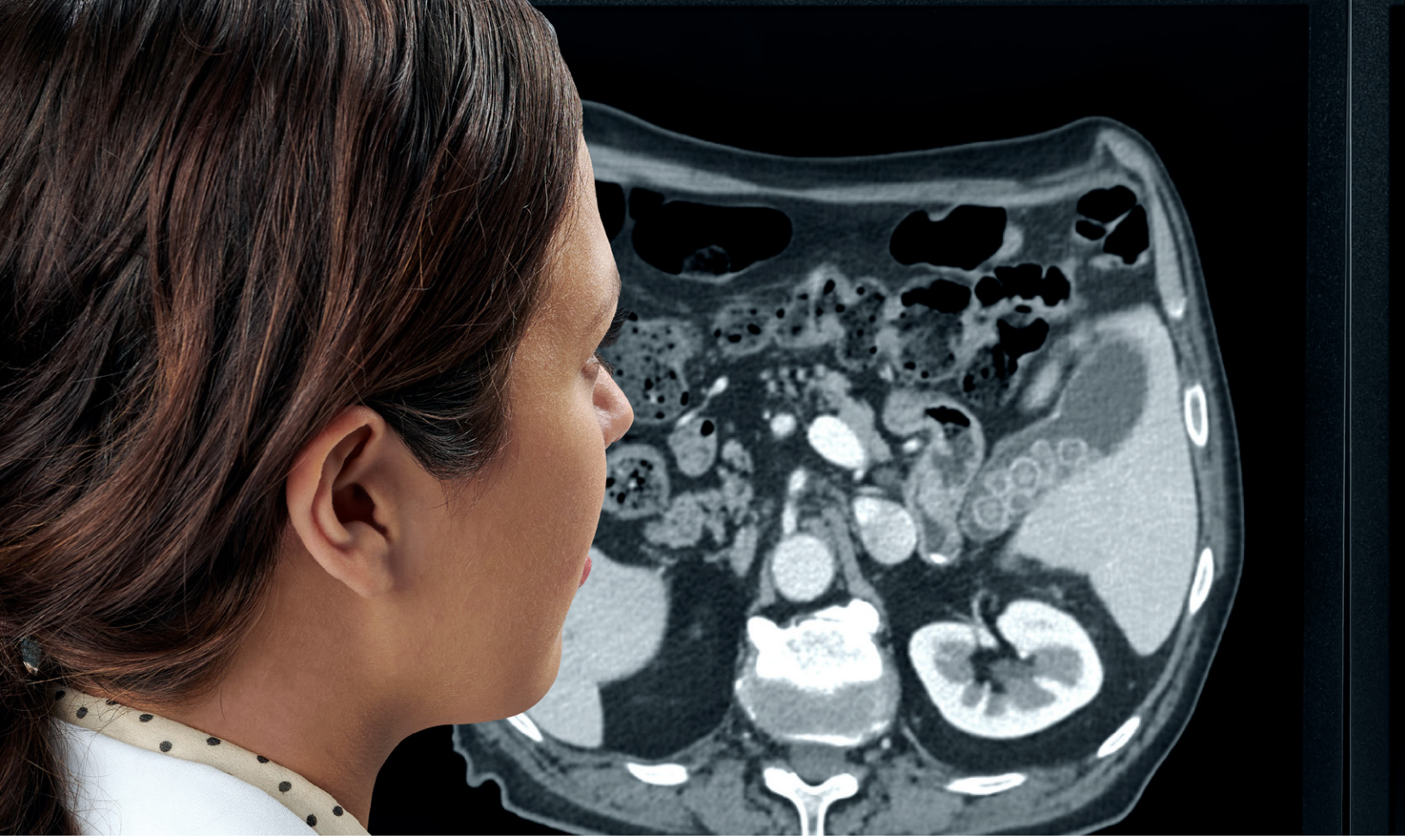
TrueFidelity DL is our state-of-the-art AI-based image reconstruction technology that uses a Deep Neural Network (DNN) to generate high-definition, low-noise CT images. It produces images with exceptional sharpness, low-contrast image quality performance and your preferred noise texture, at the same dose.[1]

1. Filtered Back Projection (FBP)
2. ASiR-V 40%
3. TrueFidelity DL-M









How we designed and trained our deep learning image reconstruction[2]

Deep neural network design

We designed our deep neural network based on our 40+ years of knowledge in CT reconstruction

Our neural network can learn CT image quality features from our carefully curated training data

Ground truth training data selection

Two categories of training data were carefully selected

High dose FBP phantom images with ground truth

High fidelity FBP clinical images

Supervised training

Trained to apply knowledge for every aspect of CT image quality

Low contrast detectability

Image noise and noise power spectrum (NPS)

High-contrast spatial resolution

CT number uniformity

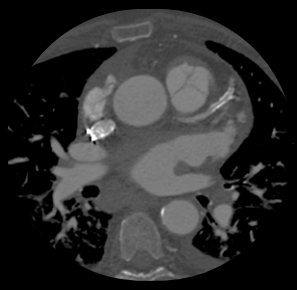
CT number accuracy

Artifacts suppression

TrueFidelity DL for your examinations

Neuro
Improved gray/white matter differentiation

Chest
Removed noise with superior CNR allowing for better detectability

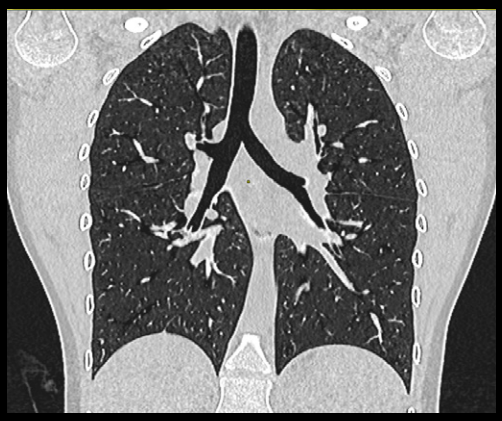


Cardiac
Less noise for improved image clarity

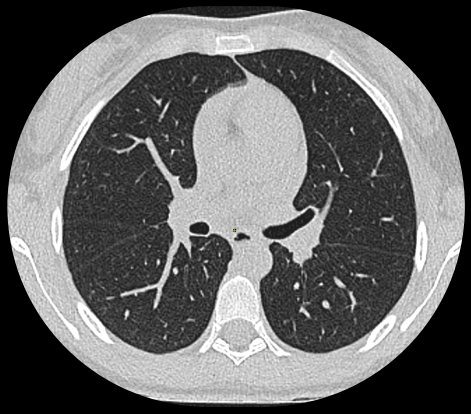
Abdomen
Great depiction of details in low contrast imaging tasks

Low dose chest

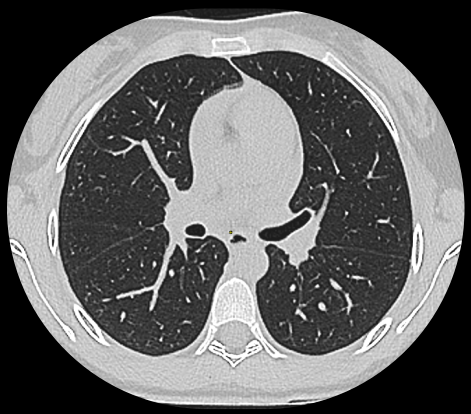
ASiR-V 40%



TrueFidelity DL



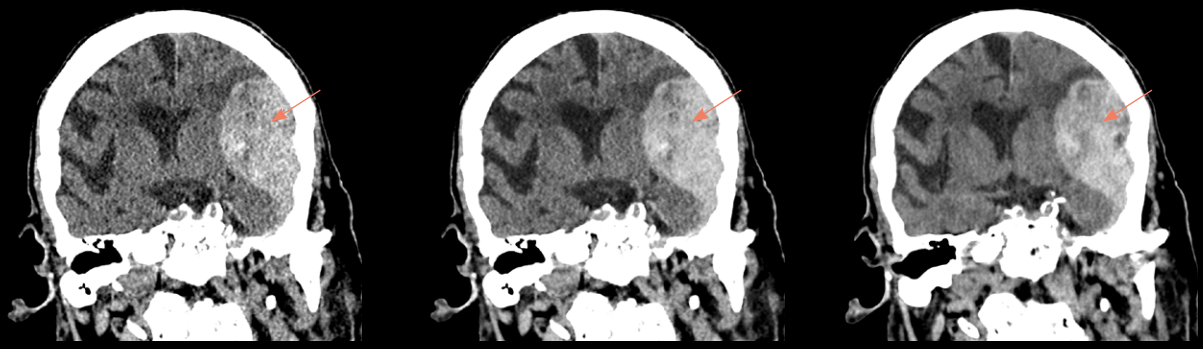
ASiR-V 40%



TrueFidelity DL

Brain

FBP | ASiR-V 40% | TrueFidelity DL



FBP | ASiR-V 40% | TrueFidelity DL

Multiphase liver hepatocellular carcinoma

Arterial | Venous | Delayed

TrueFidelity DL

ASiR-V 40%

Expand your clinical capabilities on your Revolution Maxima

Cardiology

Unlock advanced cardiac acquisition capabilities, from calcium scoring to coronary angiography.

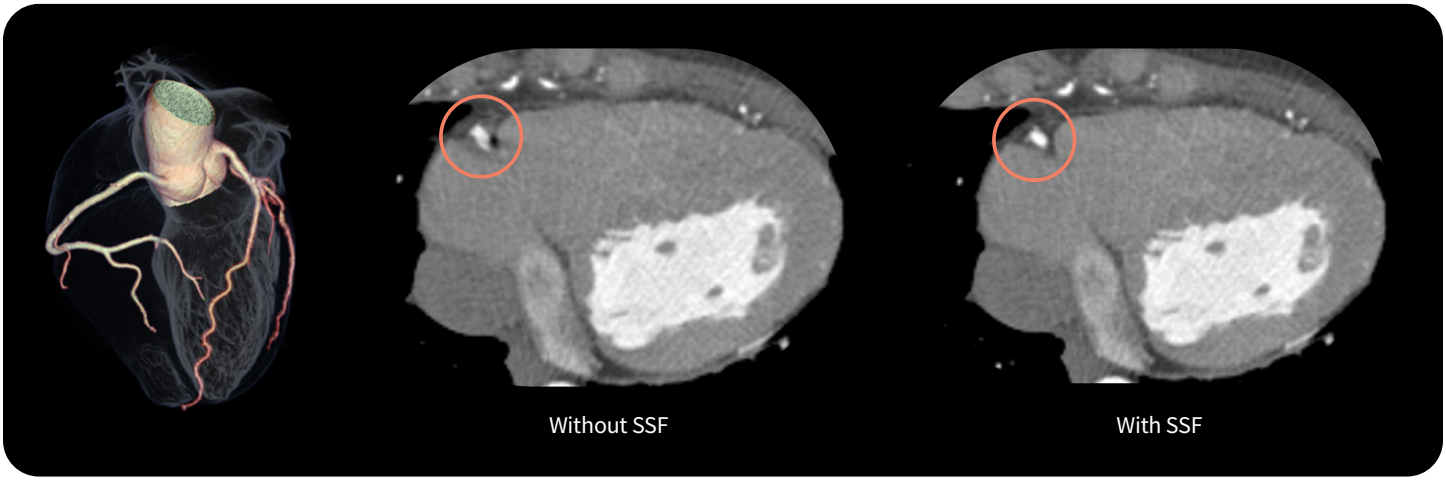
Increase temporal resolution by combining a 0.35 second rotation speed with SnapShot Freeze 2 for whole-heart motion artifact correction.

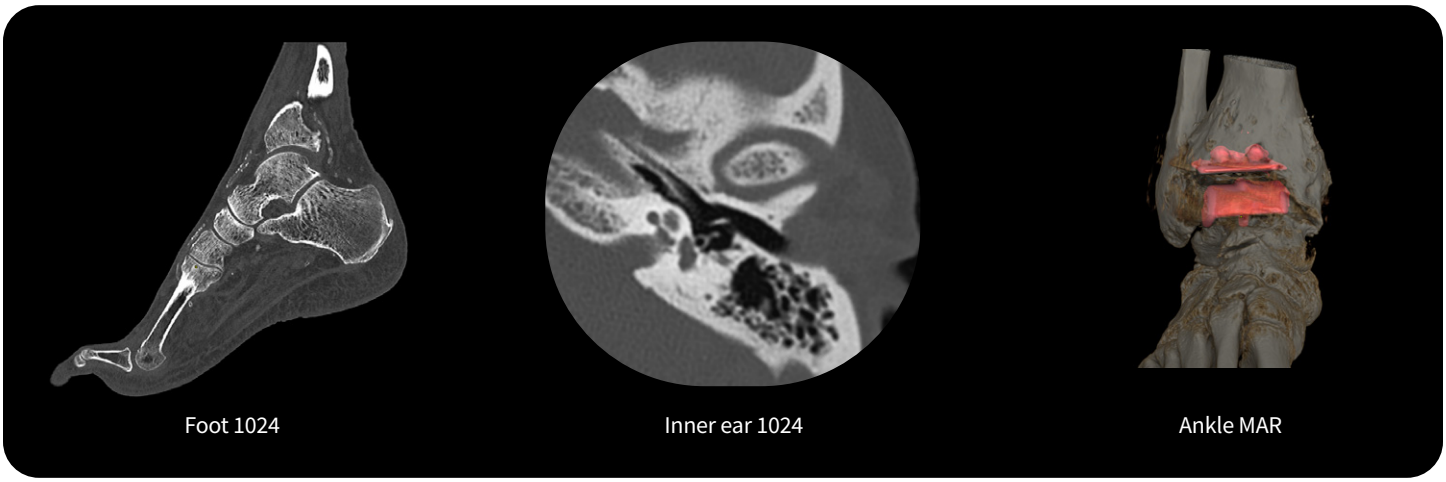
Optimize cardiac post-processing with the latest CardIQ Suite, featuring automatic calcium scoring and comprehensive coronary review.

Neurology and emergency

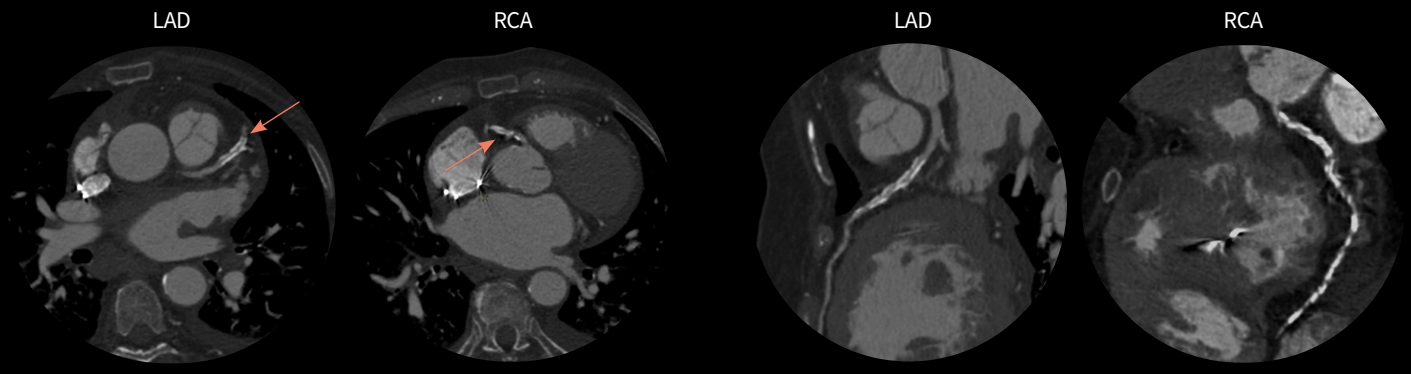
Reduce metal artifacts right when you need it with Smart MAR solutions.

Achieve higher resolution with a 1024 matrix.



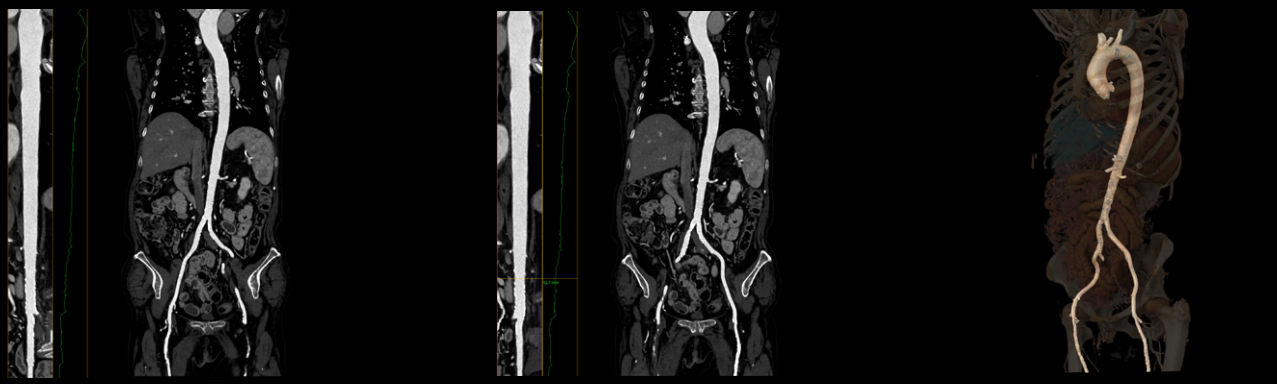


Coronary and aortic valve assessment on a TAVI patient



TrueFidelity DL

Curved TrueFidelity DL



TrueFidelity DL

Brain

FBP

ASiR-V 40%

TrueFidelity DL


Tools
Johnathan Moore
400-89-067 1941/7/4 78 Years M
Chest Routine
Operator
Protocol: 3.4 Chest w/o IV Contrast
SCOUT GROUP1 GROUP2
Start Loc. S 60.0 mm S 60.0 mm
End Loc. I 300.0 mm I 300.0 mm
kV 80 80
mA 10 10
Scout Plane 0 90
Head First
Supine
XY
Keep watching during auto motion for patient movement and collisions.
Touch this window to
PAUSE
50.0
mm
s1250.0
mm

Remain at the forefront of the innovation in CT

CT Smart Subscription for a CT that keeps getting better

GE HealthCare's subscription-based service for CT helps you keep your computing platform and software up to date and keep pace with clinical and workflow innovations by providing the latest upgrades and updates to your CT capabilities[3].

Keep pace with clinical and workflow innovations by providing the latest upgrades and updates to your CT capabilities as soon as they're available[4].

Pick the plan that's right for you. Smart Subscription includes a broad range of application packages across many different imaging services, giving you the flexibility to choose how you want to expand your CT capabilities.

CT

Revolution Maxima

\+

Smart Subscription Unlimited

Continuity Premium

Recon & IQ
TrueFidelity DL
ASiR-V
Smart MAR

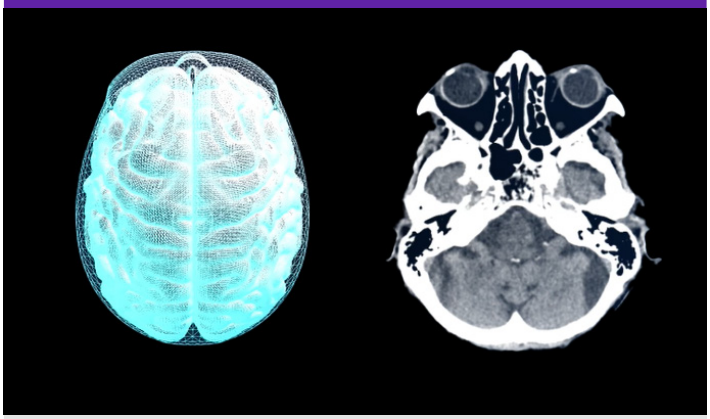
Cardiology
SnapShot Freeze 2
CardIQ Xpress 2.0
Reveal
SmartScore 4.0

General Imaging
Spine Auto Views
Head Auto Views
Bone VCAR
VessellQ Xpress with AutoBone Xpress

Neurology
FasteStroke with StrokeSENS[5]
Send by email
Auto Batch
CT Perfusion 4D Neuro
Dynamic Shuttle

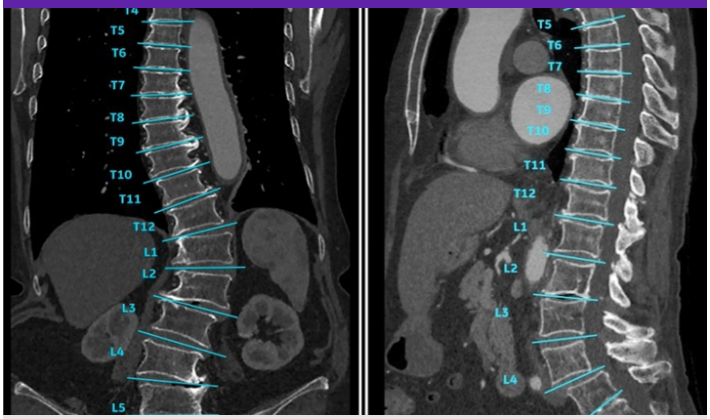
Designed to automate your image post-processing and facilitate results sharing with a fully automated workflow

Head Auto Views[6]



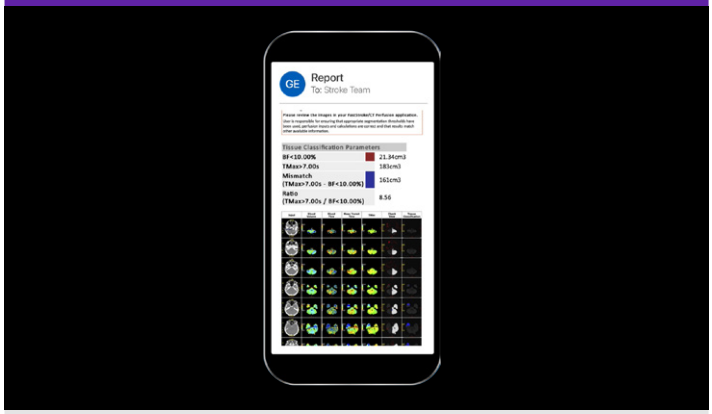
Automatically generate anatomically aligned head reformatted views

Spine Auto Views[6]



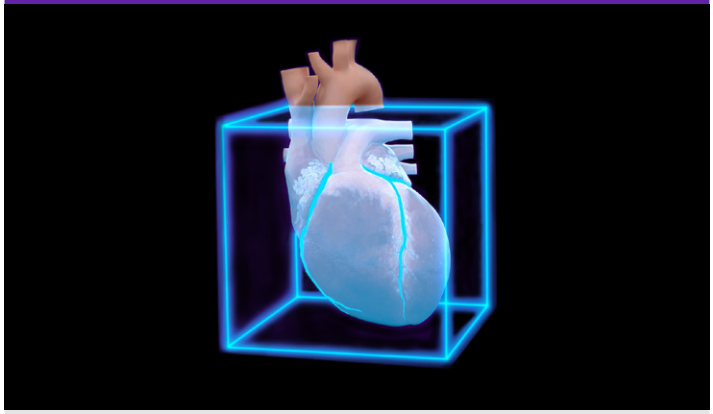
Automatically generate anatomically aligned and labeled spine reformatted views

FastStroke with StrokeSENS[5,6]



Automatic processing of ischemic stroke cases and emailing results

SnapShot Freeze 2[6]



Automated whole heart motion correction

About GE HealthCare Technologies Inc.

GE HealthCare is a leading global medical technology, pharmaceutical diagnostics, and digital solutions innovator, dedicated to providing integrated solutions, services, and data analytics to make hospitals more efficient, clinicians more effective, therapies more precise, and patients healthier and happier. Serving patients and providers for more than 100 years, GE HealthCare is advancing personalized, connected, and compassionate care, while simplifying the patient's journey across the care pathway. Together our Imaging, Ultrasound, Patient Care Solutions, and Pharmaceutical Diagnostics businesses help improve patient care from diagnosis, to therapy, to monitoring. We are a $19.6 billion business with 51,000 colleagues working to create a world where healthcare has no limits.

Follow us on LinkedIn, X (formerly Twitter), and Insights for the latest news, or visit our website https://www.gehealthcare.com/ for more information.

References:

[1] Image quality comparisons were evaluated by phantom tests of MTF, SSP, axial NPS, standard deviation of image noise, CT Number accuracy, CNR, and artifact analysis. Additionally, LCD was demonstrated in phantom testing using a model observer with the head and body MITA CT IQ Phantoms (CT191, CT189 The Phantom Laboratory). DLIR-H and ASiR-V reconstructions were performed using the same raw data.

[2] From GE HealthCare TrueFidelity DL – Technical White Paper (JB68676XX)

[3] Software available to customer is dependent on the software package purchased by customer

[4] Commercial availability may vary from regions to regions

[5] StrokeSENS™ is legally manufactured by Circle Neurovascular Imaging, Inc. StrokeSENS is not available for sale in all countries.

[6] Note that some applications may not be available in all countries and package content and availability may vary depending on CT systems.

GE HealthCare