

# HOME PAGE

- Revolution CT 256 Slice Machine

- Volume GSI
- High Definition
- 3D Dose modulation
- Smart prep with Dynamic Transition
- Dynamic perfusion
- Reduse metal artifacts
- Overlapped Recon
- Organ Dose Modulation
- DigitalTilt
- Fast Scout
- Enhance lesion detectability
- Improve tissue characterisation

Revolution CT is a break through that puts in your hand uncompromised technology coverage; special resolution, temporal resolution and dose performance all in one CT

In the time it takes for your heart to beat once, GE healthcare's revolution CT scanner can capture a detailed picture of your body. The x-ray tube moves at this speed it can capture thousands of slices or images of the body, per second. The scanner helps the doctors to improve image quality and reduce the amount of radiation the patients receives compared with other scanners

We focus on bringing quality diagnosis services by providing accurate and timely test results to our valued customers. With a commitment to excellence and a wide range of comprehensive test panels, varaha is your trusted partner in promoting good health and overall well-being.

We strive to provide high quality services near you while assuring affordability.

### **TECHNICAL SPECIFICATION**

- 256 slice CT simultaneous dual energy capability
- Both axial and spiral mode system with dual source
- Gemstone detector with ultra fast kVp switching technology
- Dual layer detector technology for dual energy data acquisition

### **PATIENTS DONE THE SAME DAY, NO WAITING**

All OPD & IPD cases are done same day as the registration, there is no waiting for the next day

All reports are provided within 24 hours of the scan

Only patients with scans that are to be done empty stomach are called the second day

All trauma patients are done on priority and urgent case's reports are provided the same day

## DUAL ENERGY

256 slice CT simultaneous dual energy capability

The machine provide fast scans with minimum radiations, its less time on table for patients with better quality scans, it Captures detailed images of entire organs in a single scan, reducing radiation exposure.

All scans including cardiac scans are done within 2 heart beats. In the time it takes for a heart to beat once, GE healthcare's revolution CT scanner can capture a detailed picture of the body. The x-ray tube moves at this speed it can capture thousands of slices or images of the body, per second. The scanner helps the doctors to improve image quality and reduce the amount of radiation the patients receives compared with other scanners

The 256 slice CT provides a quantum leap in imaging and is now being used to diagnose heart disease

This advanced scanner achieves whole imaging of the heart within a short time span using low dose radiation, providing much more visual detail about the hearts function and structures

## LOW RADIATION

GE Revolution CT scanners have features that can reduce radiation exposure for patients.

- **SmartDose Technologies:** Reduces radiation dose by up to 40% without affecting image quality

- **Revolution CT Apex:** Reduces radiation dose in dual-energy CTA compared to other CT scanners
- **Revolution Aspire:** Reduces radiation dose by up to 40%
- **ASiR-V Reconstruction:** Reduces radiation dose by up to 82%

## **ADVANTAGES OF CT SCANS**

A major advantage of CT is its ability to image bone, soft tissue, and blood vessels all at the same time

Unlike conventional x-rays, CT scanning provides very detailed images of many types of tissue as well as the lungs, bones, and blood vessels which makes it easy for doctors to diagnose the disease and start the treatment of the patients

## **ABOUT US**

Varaha SDC brings an advanced technology (256 slice) machine to the city for the first time, we at varaha focus on bringing quality diagnosis by providing best quality services. Our CT machine i.e GE Revolution CT 256 slice dual energy provides high quality scans with low dose radiations compared to other machines. our advanced technology gives doctors an edge in diagnosing the illness better

We provide immediate medical care for emergency patients and our acquiescent staff will be glad to assist you 24x7 and we have an efficient team of radiologist for excellent reporting.

## EMERGENCY CARE

Immediate medical care available 24 hours a day for emergency patients

## CARDIAC

This advanced scanner achieves whole imaging of the heart within a short time span using low dose radiation, providing much more visual detail about the heart's function and structures and also provides 3D images

## DUAL ENERGY

Dual energy scans provide better quality of scans with low dose radiation

## COOPERATIVE STAFF

We have a cooperative team of staff who is available 24x7 to guide and assist you in the process

## DOCTORS

We have an efficient team of radiologists for reporting

## LINKS

[embed width="800"][https://www.youtube.com/watch?v=1FWknU5\\_brc](https://www.youtube.com/watch?v=1FWknU5_brc)[/embed]



*\*Separate page for dual energy\**

## **GSI (Dual energy)**

### **DUAL ENERGY APPLICATIONS**

#### **- CARDIAC CASES**

- Covers whole heart in one rotation
- Takes 1000 images in one rotation
- In cardiac imaging, revolution CT can be used to acquire one beat motion free coronary images at any heart rate
- Entire examination is performed in one beat
- For complex cases, revolution CTs combination of speed, coverage and resolution helps in imaging the entire aorta in only one contrast injection typically in less than 7 sec.
- Excellent image quality can be generated of both coronary arteries and the entire aorta at low dose

- Vascular plaque characterisaton (VPC) using dual energy method

- MONOENERGETIC IMAGING

- Mono energetic imagining for beam hardening artifact elimination contrast augmentation and tissue visualisation with mono energetic images
- Helpful for implant patients

- VIRTUAL NCCT (Any body part)

- ~~Virtual non contrast CT scan using dual energy method for brain and body imaging~~

- CONTRAST SCAN

- Both plain and contrast scan can be generated from single scan

- ADVANCE LUNG ANALYSIS

- Segmentation of lungs; evaluation: lung volume mean lung density and standard deviation calculation of emphysema index, sub-ranges percentiles and clusters
- Mesure lung capacity

- GOUT IMAGING

- Colour coded visualisation of deposited uric acid crystals in peripheral extremities

## - CALCULI CHARACTERIZATION

- Visualisation of the chemical composition of kidney stones
- Can tell the character of the stone which helps in further diagnose

## - MARROW IMAGING

- Dual energy marrow imaging by calcium subtraction to look for marrow pathologies on CT
- For swelling in bone

## - CONTRAST VS BLOOD DIFFERENTIATION

- Differentiation of brain haemorrhage from contrast enhancement
- Can differentiate between blood & contrast
- For trauma and operation patients

## o **What does it means for patients?/ advantages for patients**

- Less time on table with better scan quality
- Low radiation dose
- Virtual Bronchoscopy available
- The machine takes 1000 images in one rotation
- Better scans done with less contrast
- Advance technology and scans available at government rates

- Perfusion scans available like brain and lung

- Denta scan for dental patients available
- Virtual Bronchoscopy can be done
- All body angiography available

*\*pop ups at bottom of the home page\**

(ADD IN CARDIAC POP UP - HOME PAGE )

The 256 slice CT provides a quantum leap in imaging and is now being used to diagnose heart disease

This advanced scanner achieves whole imaging of the heart within a short time span using low dose radiation, providing much more visual detail about the heart's function and structures

The images are then reconstructed in 3D format to help determine strength of the heartbeat and plaque deposits within the coronary arteries

These deposits may eventually block one or more coronary arteries and cause chest pain or even a heart attack

That's why physicians may use the 256 slice CT scanning device as a means of diagnosing early or advanced coronary artery disease

*\*add scan image in the pop up\**

*TAVI PROTOCOL*

*ANGIOGRAPHY*