GENORAY MAKES THE INVISIBLE VISIBLE !

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GENORAY RELIABLE SERVICE

Service and support is always our number one priority.
If you require any service after the purchase of a Genoray
unit, GENORAY is always there to support you. Our service
staff is waiting to support you so please feel free to give
us a call. We have built up a reputation for superior quality
and service in Korea which we hope to extend to you.

prime
OSCAR

SURGICAL MOBILE C-ARM X-RAY SYSTEM

:: GENORAY

GENORAY MAKES THE INVISIBLE VISIBLE

With the incessant challenge, and the enthusiastic passion,
we, Genoray is the company committed to making contribution to
the happiness and the healthy life of human being through
the X-Ray technology, a valuable light which saves lives.

- Developed OSCAR Prime

- 1M CCD camera is equipped on all C-Arms
  Acquired CE certificate for ZEN-2090Pro
  ZEN-2090Pro FDA 510(K091918)
  Developed ZEN-7000

- Developed C-Arm with 1M pixel camera
  Developed economical C-Arm (ZEN-2060)

- Developed High Performance C-Arm (ZEN-3090)
  Acquired CE certificate for ZEN-3090

- Selected as Superior Technology Company
  Selected as INOBIZ Company, Awarded export prize
  Approved KGMP Quality Management Standard Conformity
  Awarded with "10 Million Dollars Trophy" from Korea International
  Awarded Design&Tech innovation grand prize

Powered by and enthusiastic passion for X-Ray technology,
Genoray stands up to the incessant challenges of constant leading
a healthy lify by commiting to the improvement of our products.

YOUR OSCAR!

The new OSCAR Prime is a culmination of decades worth of developmental experience from Genoray. Your diagnosis need will be met while improving your productivity.

230x230 / 260 x 260 mm Flat-Panel detector

4.5 / 5.3kW
4.5 / 5.3kw, HFG

Cooling
Active air cooling HFG

180°
180° Dynamic Orbital Rotation

SID
Free space 800mm SID 1,000mm

10.4"
Touch Screen

34"
34" Wide Monitor

Dual Foot Switch (Shot/ Lift Up, Save/Lift Down)

Smart Review

Low Dose
Lowering Dosage

Structured Dose Report

-DICOM 3.0
-CD/DVD Burner
- USB Port

· "230 x 230 / 260 x 260 mm" Full flat-panel detector for distortion-free imaging
· High resolution images
· Wide FOV, Low Noise

10.4"Touch LCD monitor

34" wide monitor

800mm free space and 180° (+90,-90) orbital rotation

· Active air cooling HFG
· 4.5 / 5.3kW HFG

Colourful & Valuable Design Compact & Hybrid Body

GENORAY

YOUR CHOICE OF ...

As a surgeon you need the skills and dedication to perform an increasing number of challenging interventions.
Crisp, clear images are also crucial, whether you are performing open surgery or advanced minimally invasive procedures.

1 FLAT-PANEL
230 x 230 / 260 x 260 mm

2 MONITOR
• 34" Monitors
• Two 19"Monitors

3 FOOT SWITH
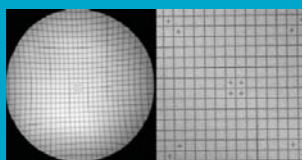• Dual Foot Switch
• Triple Foot Switch

EXCEPTIONAL IMAGE QUALITY

With an optimal flat panel detector size of 23 x 23cm, 26 x 26cm you won't miss a thing with its high quality resolution. It makes accurate diagnosis in a variety of departments especially DSA

DISTORTION-FREE FLAT DETECTOR IMAGING

Distortion & Brightness uniformity

Flat-panel keypoint :
> Distortion-free imaging   > High quality resolution
                             > Larger field of view

Laser localizer marks exact field of fluoroscopy to decrease in order exposure.

ACTIVE AIR COOLING HIGH FREQUENCY GENERATOR

Our 4.5 / 5.3kW generator is one of the most powerful generator in the world.
Active aircooling system prevents overheating and offers a long duration of operation with stable results.

- High Performance Active Air Cooling

- Protect valuable parts (tube, HFG, etc.)
  from overheating and damage
  ; Guaranteed lifetime, safe medical treatment

Extended usage for longer interventional procedures
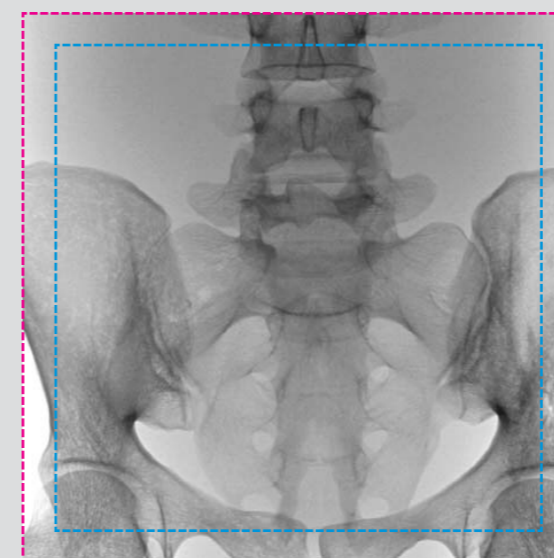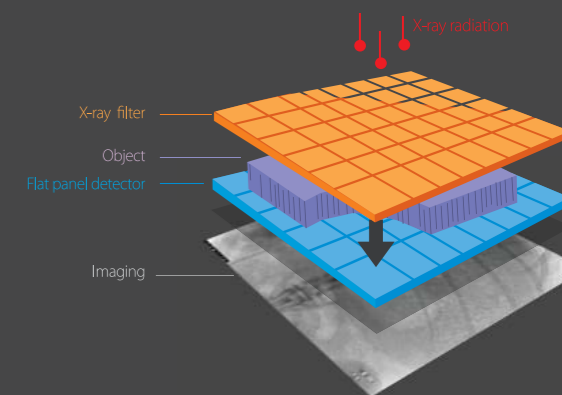
- Various Pulsed X-Ray

- Smart collimator

SMART IMAGE PROCESSING

HIGH SPEED READOUT, HIGH DEFINITION
Flat panel detector doesn't miss a beat!

WIDE FOV, LOW NOISE, LOW DOSE, HIGH CONTRAST RATE

Your needs will be met while improving your productivity.

X-ray radiation
X-ray filter
Object
Flat panel detector
Imaging

FOV (Field of View)   230 x 230 mm / 260 x 260 mm

DENOISING
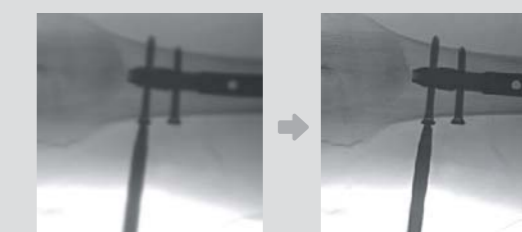Techniques to reduce noise through many X-ray image processing algorithms

EDGE ENHANCENMENT
For user to get more accurate diagnosis result enhancing edge of image.

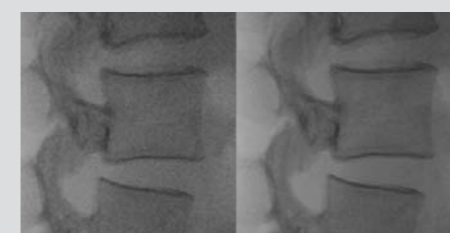### METAL CORRECTION
To prevent over-dose radiation or low quality image casued by metal inturrption on field of view.

MOTION CORRECTION
This function detects the movement and reduce the after image while exposing X-ray.

COMPACT & INTNTELLIGENT DESIGN

Convenient touch screen and simple foot switch make easy image acquisition.
Rewind missed image by software to prevent retake of image.

X-RAY DOSE MANAGEMENT

LOW DOSE MODE

Low dose mode is desgined to acquire reasonable image to diagnose the patient with minimum dosage.

SMART REVIEW

Review and store image maximum 10 seconds before last image.

LIGHTWEIGHT ARCHITECTURE

OSCAR Prime is designed to be operated easily.

INTELLIGENT OPERATION

Measurement of length, angle, and Input and storage of line, arrow, characters
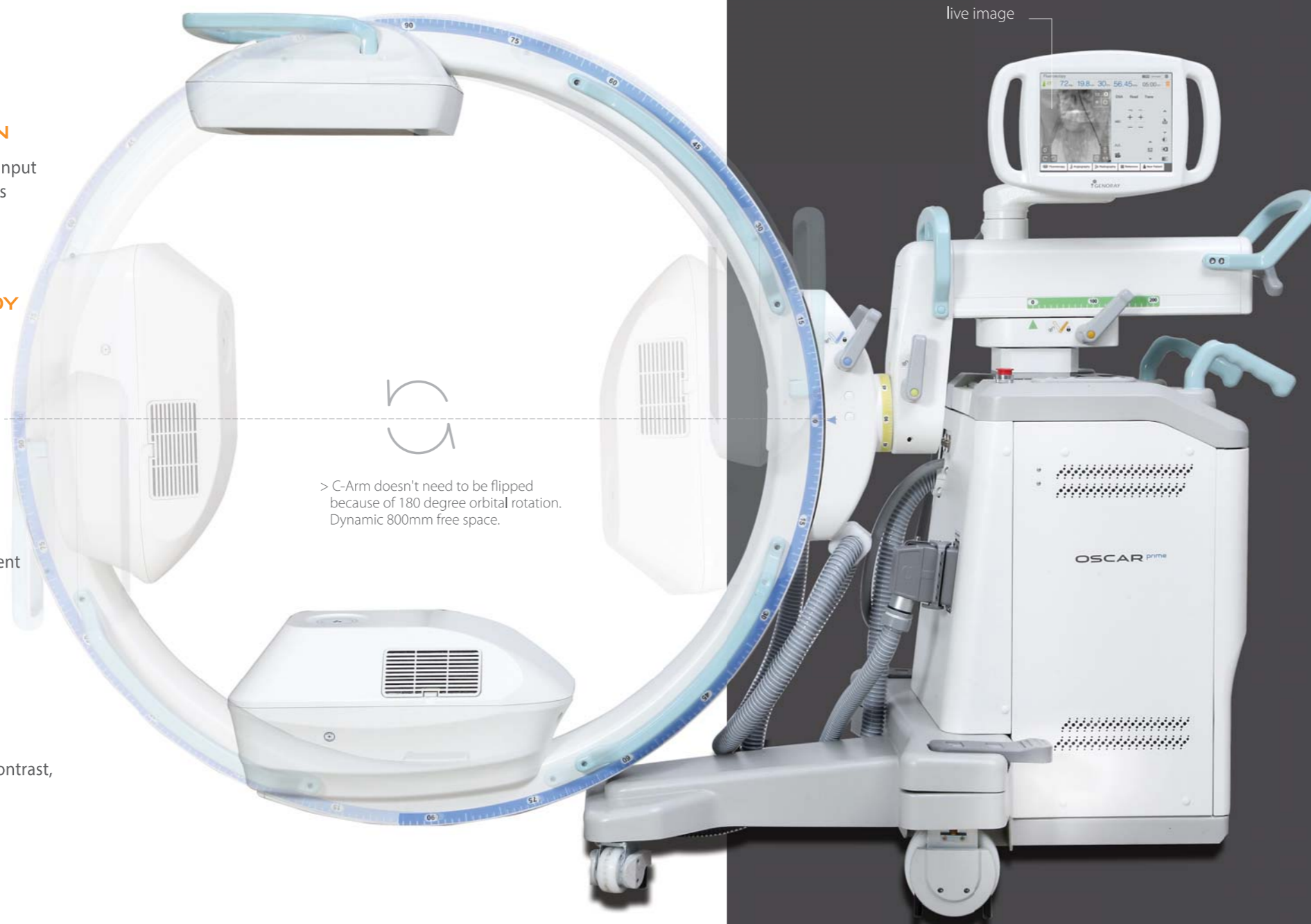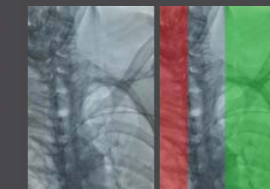
COMPACT & HYBRID BODY

Compact body with excellent movement and ease of operation with a perfect balanced C-Arm

10.4-INCH TOUCH LCD

The 10.4-inch touch LCD Screen is highly sensitive and allows for efficient operation of the system

34-INCH WIDE MONITOR

34-inch wide monitor displays superior images with outstanding contrast, colour, and resolution.

live image

> C-Arm doesn't need to be flipped because of 180 degree orbital rotation. Dynamic 800mm free space.

DOSE STRUCTURED REPORT

Dose SR enables efficient radiology workflow, improves patient care, and enhances the radiology working conditions.

VIRTUAL COLLIMATOR

The virtual collimator allows for the selection of your desired field of view, while reducing the amount of radiation exposure by limiting the X-Ray beam.

AUTO COLLIMATION

Prevention of unncessary X-Ray exposure by focusing on the area of interest while autmoatically collimating the remaining areas.

IMAGE CHAIN TECHNOLOGY

X-ray for acquisition of low-dose / high-quality medical images Image chain technology considering interaction with human body, detector, image processing algorithm etc.

POWERFUL
SOFTWARE ZENIS

A total solution from acquisition, storage,
management, communication to print out
Provide convenient environment
from user-centric interface /
Diagnosis and confirm from recognizable
simple icons /
Convenience of database management

- Convenient diagnostic functions for easy patient / image
  management
- Accurate diagnostic tools
- Improve the efficiency of your hospital management

- Perfect compatibility with all PACS
- A must have for a digitally equipped hospital
- Convenient communication and management
  for your customers

IMAGE MANAGEMENT

Invert, rotation, zoom In/out,
magnify glass and etc

MEASUREMENT & ANNOTATION

Measurement of length, angle, and Input
and storage of line, arrow, characters

DICOM 3.0

Storage service, worklist service

RECOMMENDED SYSTEM
REQUIREMENTS FOR ZENIS

DATABASE MANAGEMENT
IN HIPAA APPROVED FORMAT

DICOM SUPPORT

Read
Write

Import
Export

Print

Worklist
MPPS

HIS
RIS
EMR

Storage
Storage Commitment
Query & Retrieve
Radiation Dose SR

PACS

DSA
[DIGITAL SUBTRACTION ANGIOGRAPHY]

Angiography option utilizes repeating stored videos
while subtracting unwanted artifacts

NATIVE DSA

Pairing fluoroscopy with constrast media to display
the basic angiography views

MOTION MATCHING

Selects the proper mask to apply and remove artifacts
made by a patient's movement or breathing

POST-PROCESSING

processing: Improvement of the processed image
after the DSA procedure

LANDMARKING / BRIGHTNESS / CONTRAST

After setting the position for a vessel, the subject can
be placed back to their original position by using
the shift function to compensate for any movement.
Allows for various functions that assist with accurately
inserting a cather.

ROAD MAPPING, LAND MARK,
PEAK OPENCIFICATION AND
MOTION DETECTION

After setting a position for a vessel, the subject can be
moved back to their original place by using the shift
function to compensate for any movement.
Provides various functions that helps accurately to insert
a guide wire, catheter. is compatible with the hybrid
operating room.

AUTO ROADMAP MASK

Obtain blood vessel type information while only using
a small amount of contrast media

MANUAL ROADMAP MASK

Roadmap your vessels using a prevoiusly taken DSA image

ROADMAP PIXEL SHIFT

Re-position the roadmap mask by shifting the pixels to
the proper position

PEAK OPACIFICATION

Ability to diagnose a blood vessel with only a small amount
of contrast media