

SKANC



HIGH FREQUENCY **MOBILE SURGICAL C-ARM**

CE
1434

FDA
510K CLEARED

NEUROLOGY | PERIPHERAL VASCULAR | UROLOGY | CEREBRAL ANGIOGRAPHY
PAIN MANAGEMENT | GASTROINTESTINAL | ORTHOPAEDICS | SPINE & GENERAL SURGERY

Nothing is Opaque

At Skanray 'Nothing is Opaque'. Skanray not only enables diagnosis of human anatomical and physiological abnormalities and measurement of vital signs but is also governed by its philosophy of 'transparency' in all its transactions with its customers, investors, suppliers, and business associates.

Skanray follows a fair and transparent pricing policy to ensure that its customers save their precious time and money.

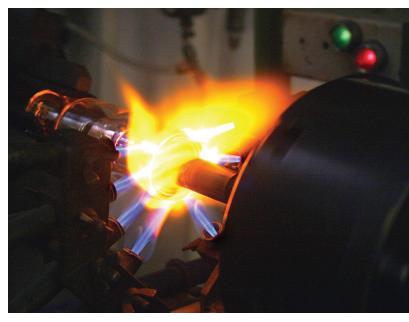
International Compliance

Skanray's products are designed and developed under stringent quality processes to meet global compliance requirements. Several of its products, made from multiple locations, have FDA/CE/UL approval while the rest are designed for global compliance and ready for certification when needed by the customer.

Awards and Accolades

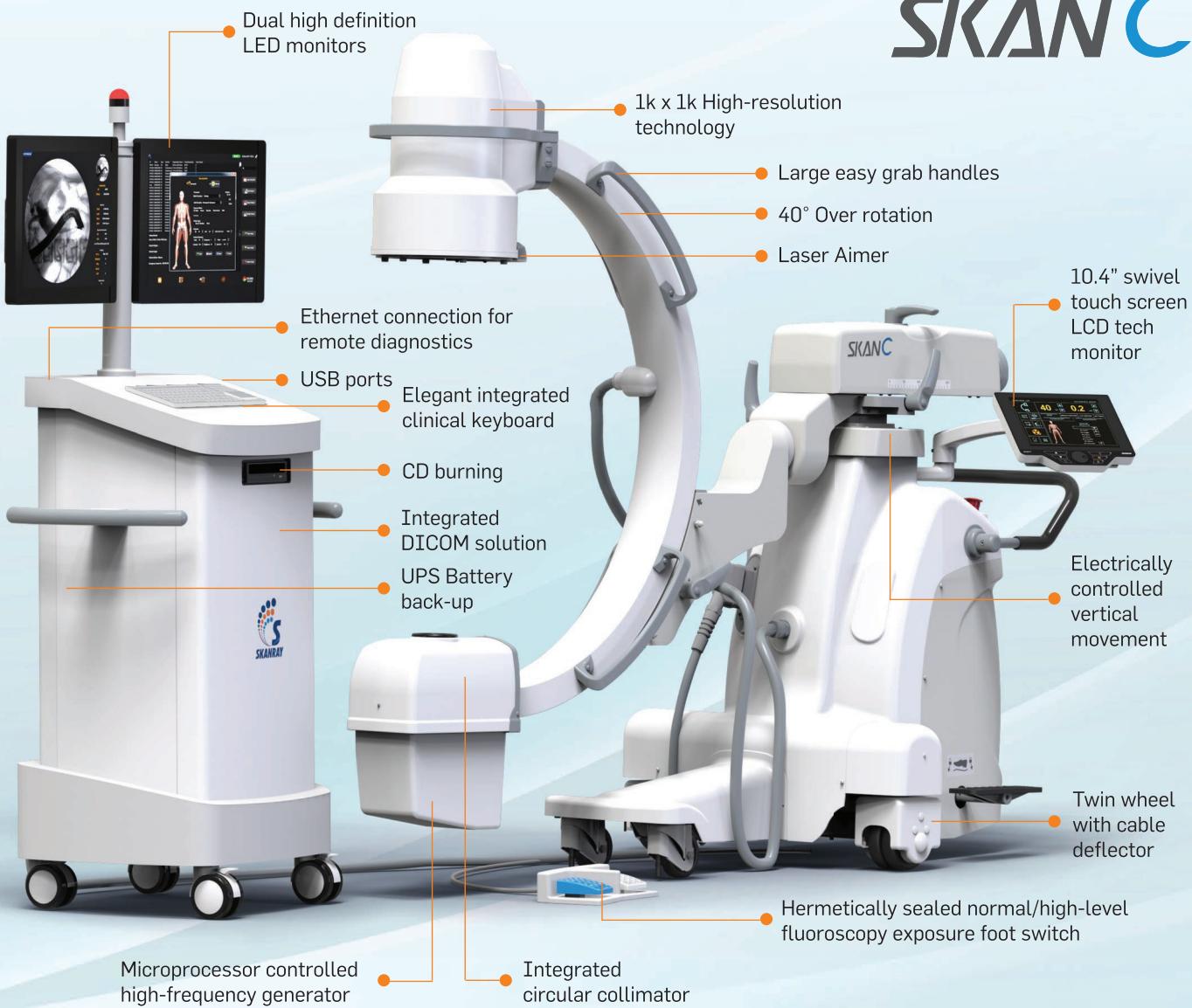
Skanray is one of the fastest-growing global medical devices and primary healthcare solutions companies. It has been recognized by Forbes, Frost & Sullivan, TIE-Lumis, IESA, Red Herring & Economic Times for business excellence and values.





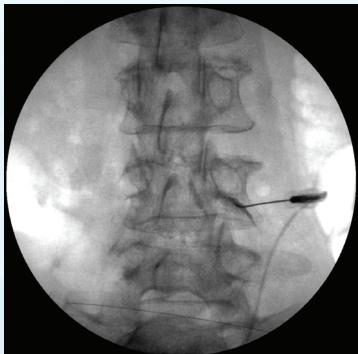
Key Features

SKANC



- ▶ Safest C-Arm in its class with virtually very low leakage radiation.
- ▶ 40 - 110 kV and 0.2 - 8 mA in continuous Fluoroscopy and up to 10mA in Snapshot mode: Wide parameter range covers most procedures including obese patients.
- ▶ 3.5kW (220VAC - 240VAC)/2.2kW (110VAC) RAD mode with high performance switching range from 80 - 250kHz.
- ▶ Pulse Fluoroscopy Mode up to 12mA for good quality images at reduced radiation dose.
- ▶ Vascular Mode with DSA, Pixel Shifting, Trace, and Road Map tools for effective intervention.
- ▶ Image Capture with 1k x 1k resolution for exceptional image quality.
- ▶ Advanced denoising algorithm for improved image quality.
- ▶ Multi-Mode functionality accommodates vascular, pulsed fluoroscopy, RAD, and fluoroscopy.
- ▶ Virtual Collimation allows ROI selection without additional exposure, reducing the dose induced to the patient.
- ▶ Storage of over 100,000 images eliminates the need for constant image backup.
- ▶ Laser Aimer for accurate positioning of the patient, without irradiating.

Procedures

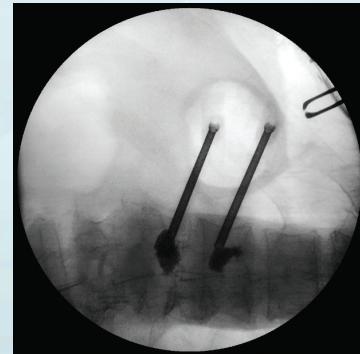


Pain Management

- ▶ Epidurals
- ▶ Facet Blocks
- ▶ Nerve Blocks
- ▶ Rhizotomies
- ▶ Spinal Cord Stimulator
- ▶ Vertebroplasty / Kyphoplasty
- ▶ RF Ablation

Orthopaedic

- ▶ Closed Reduction Internal Fixation (CRIF).
- ▶ Open Reduction Internal Fixation (ORIF).
- ▶ Hip Fixation.
- ▶ Long Bone Nailing.
- ▶ Vertebroplasty / Kyphoplasty.
- ▶ Bone Biopsy.
- ▶ Intra-articular Steroid Injections.
- ▶ Arthrography.
- ▶ Joint Aspiration.

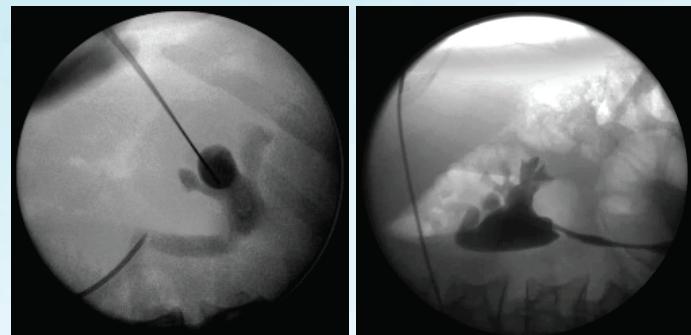


Gastrointestinal

- ▶ Endoscopic Retrograde Cholangiopancreatography.
- ▶ Barium Solvent.
- ▶ Gastric Band Adjustment.
- ▶ Small Bowel Series.
- ▶ Nasojejunal Intubation.
- ▶ Colostomy/Ileostomy Studies.
- ▶ Percutaneous Transhepatic Biliary Drainage (PTBD).
- ▶ Paracentesis and Peritoneal Port Placement.
- ▶ Percutaneous Endoscopic Gastronomy (PEG).
- ▶ Transjugular Liver Biopsy.
- ▶ Laparoscopic Cholangiography.
- ▶ Biliary Stent Placement.
- ▶ Feeding Tube Placement.

Urology

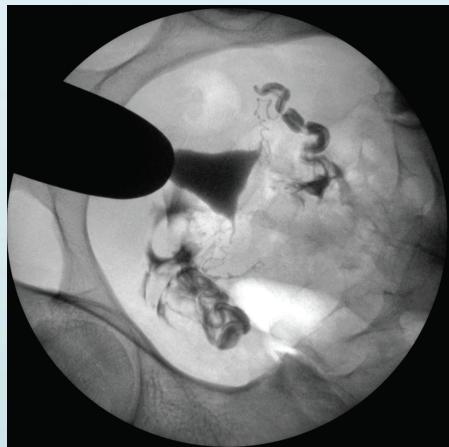
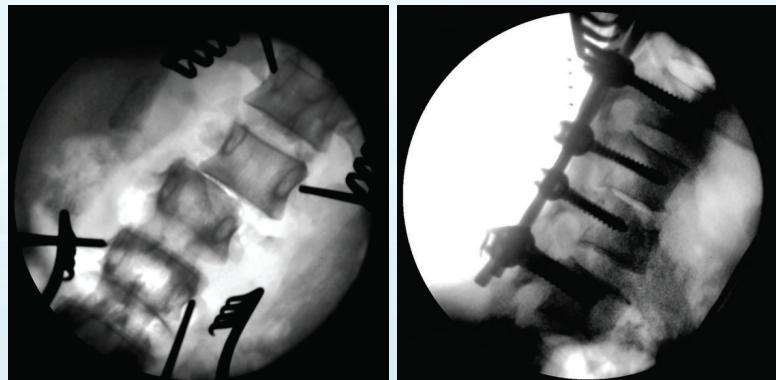
- ▶ Extracorporeal shock wave lithotripsy.
- ▶ Ureteroscopic Lithotripsy (URSL).
- ▶ Percutaneous Nephrolithotomy (PCNL).
- ▶ Cystogram \pm Micturating Cystourethrogram.
- ▶ Retrograde Urethrogram.
- ▶ Retrograde Pyelogram.
- ▶ Intravenous Pyelogram (IVP).
- ▶ Urostomy (Ileal Conduit) Studies.
- ▶ Renal Biopsy & Renal Artery Stenting.



Procedures

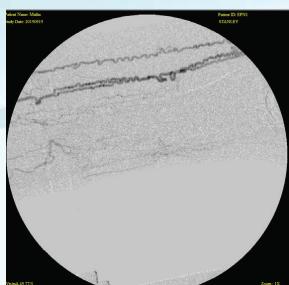
Neurosurgery

- Lumbar Puncture & Discectomy.
- Epidural Steroid Injections.
- Carotid Artery Stenting.
- Diagnostic and Therapeutic Spinal.
- Angiography & Spine Biopsy.



Other Applications

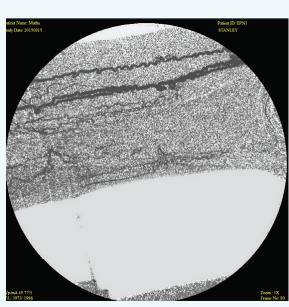
- Uterine Artery Embolisation / Uterine Fibroid Embolisation.
- Hysterosalpingogram (HSG).
- Varicocele Embolisation.



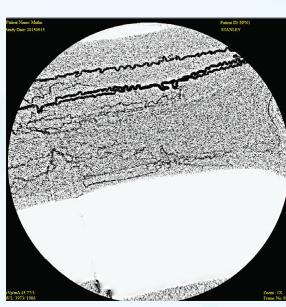
Normal



Cerebral



Histogram Equalisation



Enhance

Peripheral Vascular Imaging

- Angiography - Cerebral and Peripheral.
- Angioplasty - Cerebral and Peripheral.
- Stenting.
- Thrombectomy.
- Embolization.

Enhanced Usability



Multi-Window

- ▶ Multi-Window Interface for reference images.
- ▶ Freeze/Unfreeze option.



Panning

- ▶ The Panning feature allows moving the image around the canvas.
- ▶ Helpful when the image is zoomed in.



Edge Detection and Enhancement

- ▶ Edge detection is an image processing technique used to find the boundaries of objects within images.
- ▶ Better highlight and sharp contours of the images to give enhanced clinical representation.

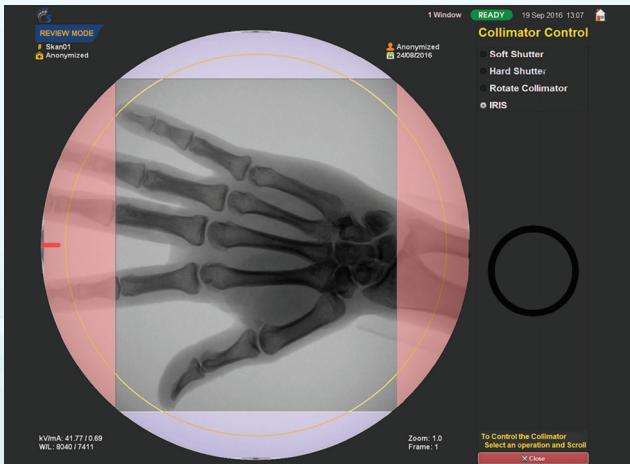


DSA & Roadmap*

- ▶ Ease of operation.
- ▶ Repeated Mask selection feature.
- ▶ Peak Opacification feature.
- ▶ Auto Roadmap marking.
- ▶ Better subtracted image quality.

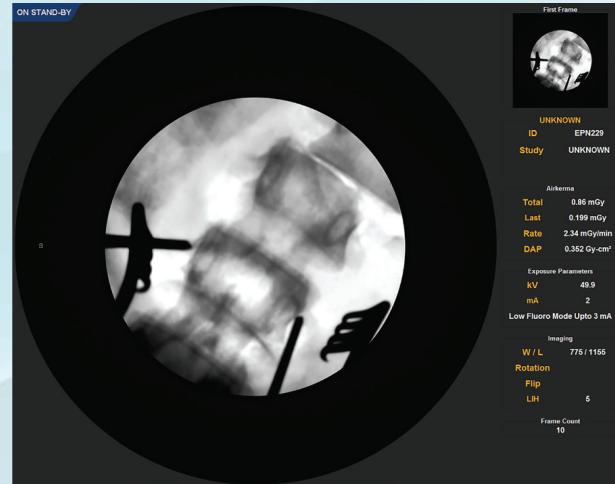
*Comes as a standard package in all Skan-C

Other Features



Virtual Collimation

- ▶ Virtual simulation of the collimated area without exposure.
- ▶ Controls soft shutter for dense anatomy display along with soft tissue.
- ▶ Collimator rotation control to align with the ROI.



Iris Collimation

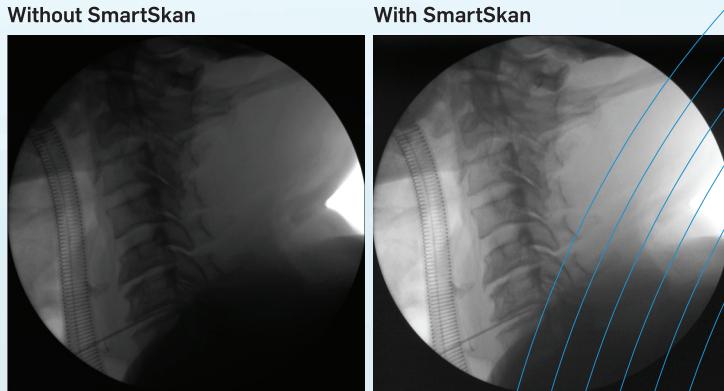
- ▶ Perfect circular collimation.
- ▶ 9 steps of Iris collimation.

Other Features

- ▶ Small footprint.
- ▶ Clean power from mains through UPF control.
- ▶ Counterbalanced C for fast and ease of positioning to the clinical need.
- ▶ Overscan/Underscan: -40°/+90°.
- ▶ Length or width determination for screws or tools or bone.
- ▶ Image Intensifier Magnification from 9, 6, and 4.5 inches.
- ▶ Auto Technique for consistent image quality under varying anatomy densities.
- ▶ Image processing includes zoom, flip, invert, torch and median.
- ▶ Image rotation on both active and passive monitors when offline.
- ▶ Snapshot feature to produce similar quality as in Radiography images, in fluoroscopy mode.
- ▶ Image Annotations feature to record and communicate the observations.
- ▶ Studies can be saved in MKV video, JPEG & DCM image formats for publication and sharing.
- ▶ Secure access to sensitive settings to prevent accidental modifications.
- ▶ DICOM 3 Compliant - Send, Receive, Print, DicomCD, MWL, MPPS.
- ▶ Manual and Auto-save option for images and videos.
- ▶ Manual APF table and APR to select kVp and mA.
- ▶ Customizable camera orientation to image display.

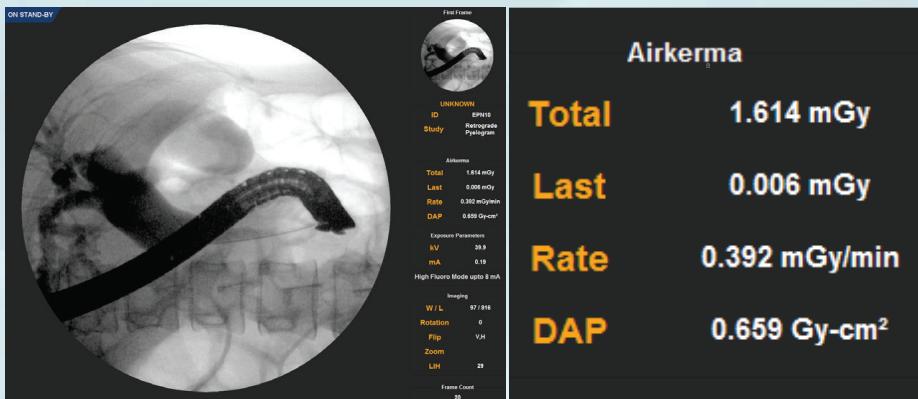
SmartSkan

- ▶ Skanray's unique SmartSkan delivers high-quality images consistently with accurate image contrast.
- ▶ SmartSkan balances the image contrast no matter where the image intensifier is positioned on the anatomy.



Airkerma on display

- ▶ The total Airkerma for each patient at the normal patient distance from the X-ray source is displayed along with Dose per procedure, Dose rate, and Dose Area Product on the Live Monitor.



Laser Aimer*

- ▶ Console operated Laser Aimer for accurate beam positioning.
- ▶ Laser Crosshair on ROI.
- ▶ Precise positioning without continuous X-ray exposure.
- ▶ Minimizes patient radiation dose by targeting the area of interest.
- ▶ Reduces radiation to technicians and doctors.



*Comes as a standard feature in all Skan-C

User Interface

Touch Screen Console*

- 10.4" TFT LCD Touch Screen Display.
- 67 ft-L brightness.
- SVGA 800(H)x600(V) resolution.
- Anti-glare display with wide viewing angle.
- Optical encoder and hotkeys for easy navigation.
- Laser aimer control.
- Menu-driven workflow.



*Come as standard feature in all Skan-C

Distance Measure



Angle Measure

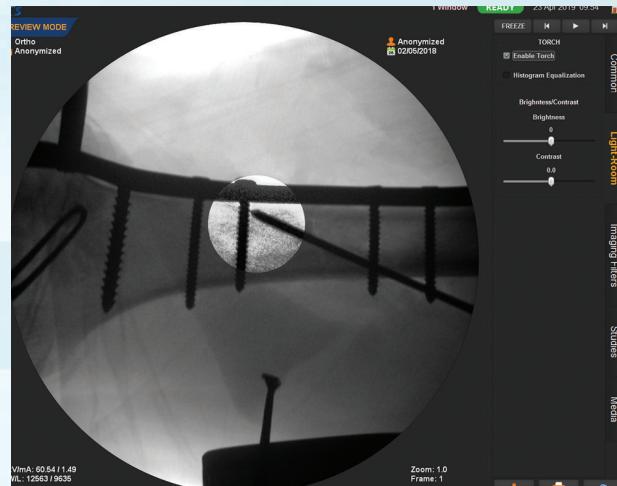


Distance and Angle Measure

- Provides distance between 2 selected points in the Image.
- Needs prior known distance calibration.
- Measures the angle between two lines on the image.

Torch

- Provides increased image contrast for the selected area.
- Helps to enhance the visualization of tissue areas.



Technical Specifications

X-Ray Tube

| | |
|-------------------------------|-------------------------|
| Nominal Focal Spot Value | 0.6/1.8 as per IEC60336 |
| Maximum Anode Heat Capacity | 56kHU |
| Maximum Housing Heat Capacity | 1150kHU |
| Total Filtration | >0.1inches of Al eq. |

HF X-Ray Generator

| | |
|--|--|
| Mode of Operation | Fluoroscopy, Radiography |
| Maximum Output in Large Focus | [3.5kW (220 - 240V)/2.2kW (110V)] for 100mS |
| Maximum Continuous Output in Small Focus | 500W [10 min] |
| kV Range | 40 - 110kV |
| Maximum Tube Current(Large Focus) | 70mA @ 50kV, 32mA @ 110kV [220 - 240VAC] 55mA @ 40kV, 20mA @ 110kV [110VAC] |
| Frequency | 80 - 250kHz |

Continuous/Pulsed Fluoroscopy

| | |
|--------------------------------|------------|
| mA Range for Continuous Fluoro | 0.2 - 8mA |
| mA Range for Pulsed Fluoro | 0.2 - 12mA |
| Digital Snap Shot | 0.2 - 10mA |

Radiography

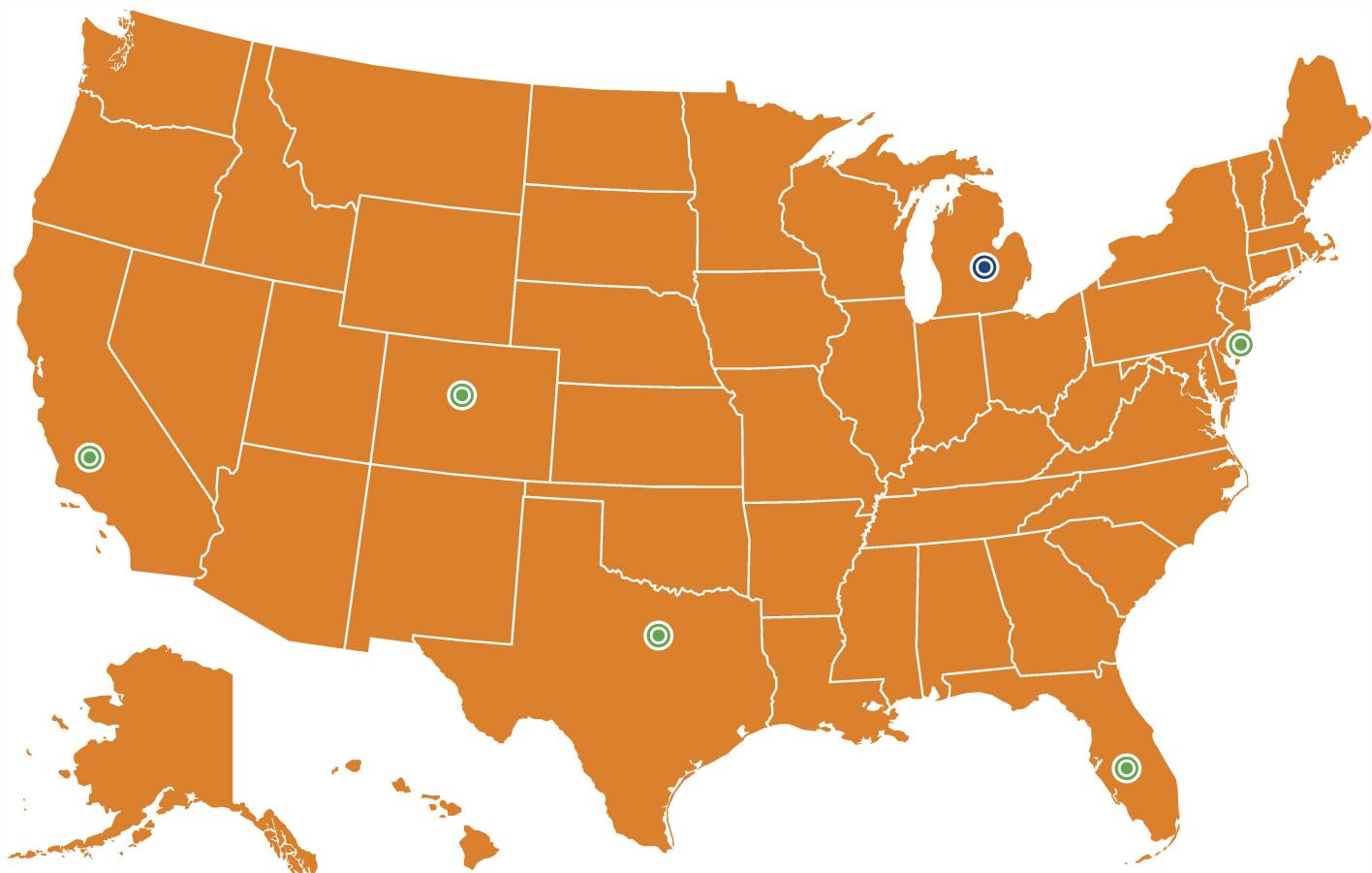
| | |
|------------------|--|
| kV and mAs Range | 40 - 110kV, [0.5 to 200mAs (110VAC) / 0.5 - 240mAs (220 - 240VAC)] |
|------------------|--|

Collimator

| | |
|-------------------|---|
| Collimation Types | Hard & Soft Shutters with Circular IRIS |
|-------------------|---|

Mechanical Specifications

| | |
|--------------------------|------------------|
| Immersion Depth | 26 inches |
| Clear space (free space) | 30 inches |
| Vertical Travel | 18 inches |
| Horizontal Travel | 8 inches |
| Orbital Motion | -40° to +90° Max |



- Skanray Americas corporate headquarters and main distribution center
- Skanray Americas systems and parts distribution centers
- Skanray Americas service coverage areas and distributors

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RADIOLOGY



MONITORING



CARDIOLOGY



ANAESTHESIA



VENTILATION



DENTAL



SURGERY



TELE SOLUTIONS



VETERINARY

Skanray continuously upgrades its technology, performance and safety features. Pictures and specifications featured in this catalogue are only indicative. Please refer to the commercial offer document for exact specifications and performance.