

# SKAN C



## HIGH FREQUENCY MOBILE SURGICAL C-ARM

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.

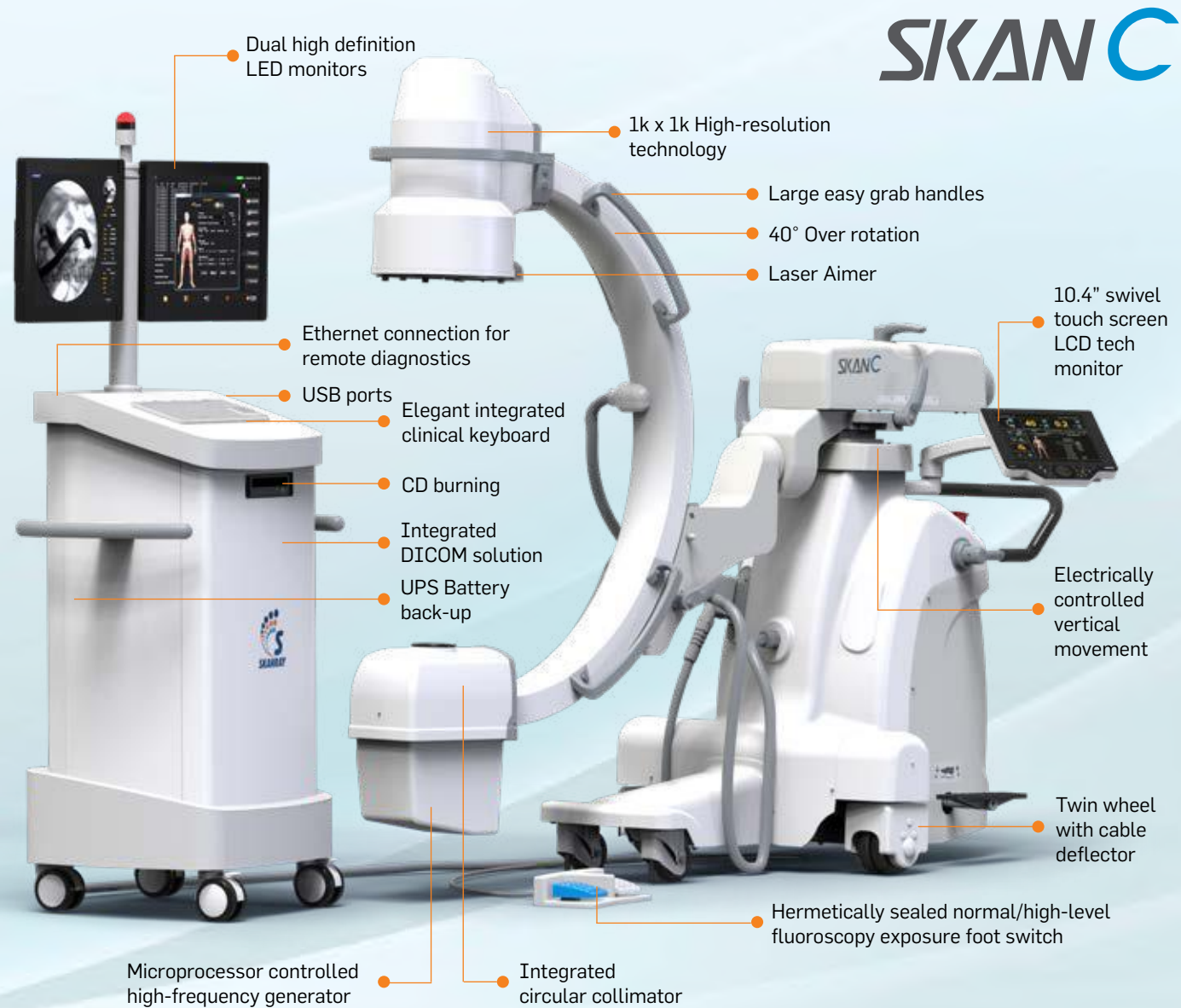
## Awards and Accolades

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.



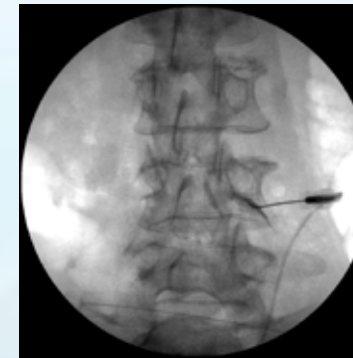


# Key Features



- ▶ 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.



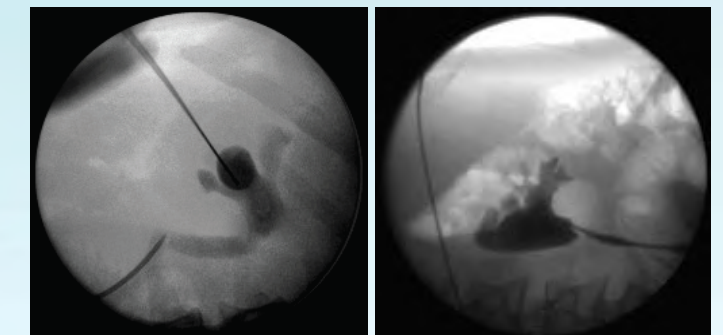
## Gastrointestinal

- ▶ 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

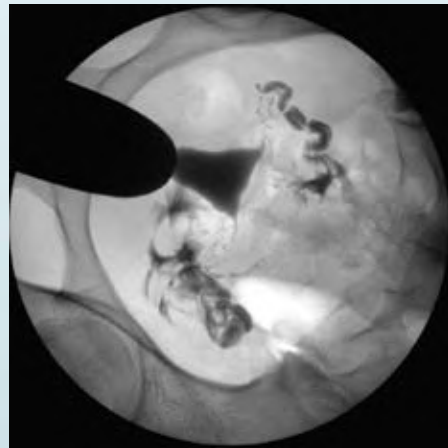
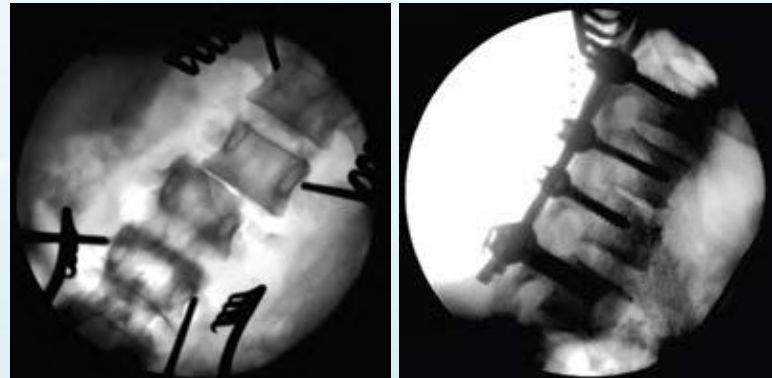
- ▶ Extracorporeal shock wave lithotripsy.
- ▶ Ureteroscopic Lithotripsy (URSL).
- ▶ Percutaneous Nephrolithotomy (PCNL).
- ▶ Cystogram ± Micturating Cystourethrogram.
- ▶ Retrograde Urethrogram.
- ▶ Retrograde Pyelogram.
- ▶ Intravenous Pyelogram (IVP).
- ▶ Urostomy (Ileal Conduit) Studies.
- ▶ Renal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





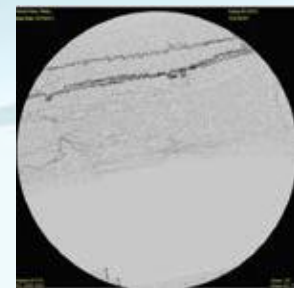
## Neurosurgery

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



## Other Applications

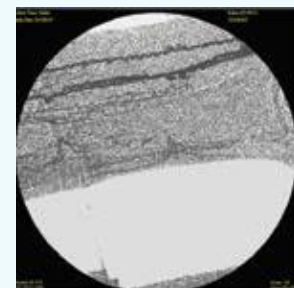
- ▶ Uterine Artery Embolisation / Uterine Fibroid Embolisation.
- ▶ Hysterosalpingogram (HSG).
- ▶ Varicocele Embolisation.



Normal



Cerebral



Histogram Equalisation



Enhance

## Peripheral Vascular Imaging

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



## 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.

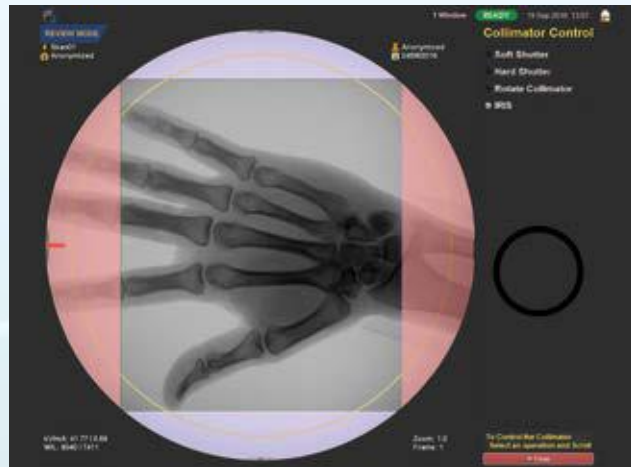


## DSA & Roadmap\*

- ▶ 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:  $-40^{\circ}/+90^{\circ}$ .
- ▶ 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.

## SmartSkin

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

Without SmartSkin

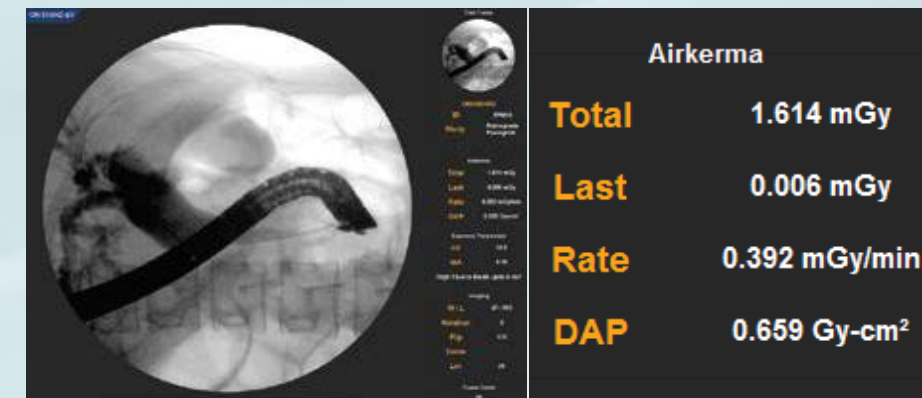


With SmartSkin



## 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.

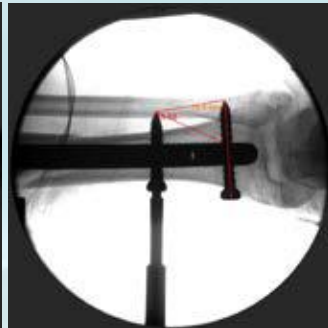


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Distance Measure



Angle Measure

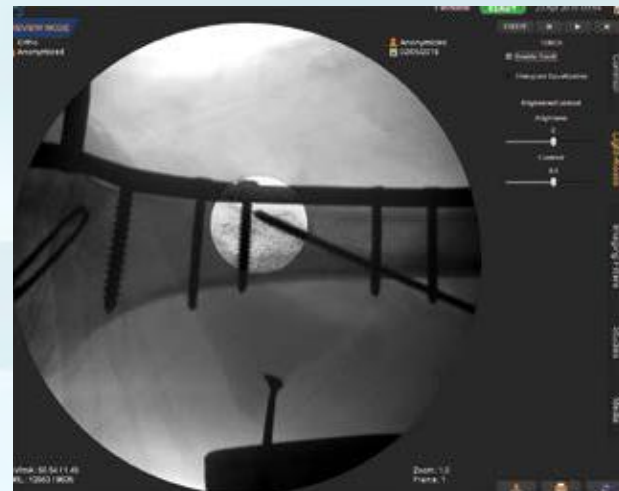


## Distance and Angle Measure

- ▶ 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

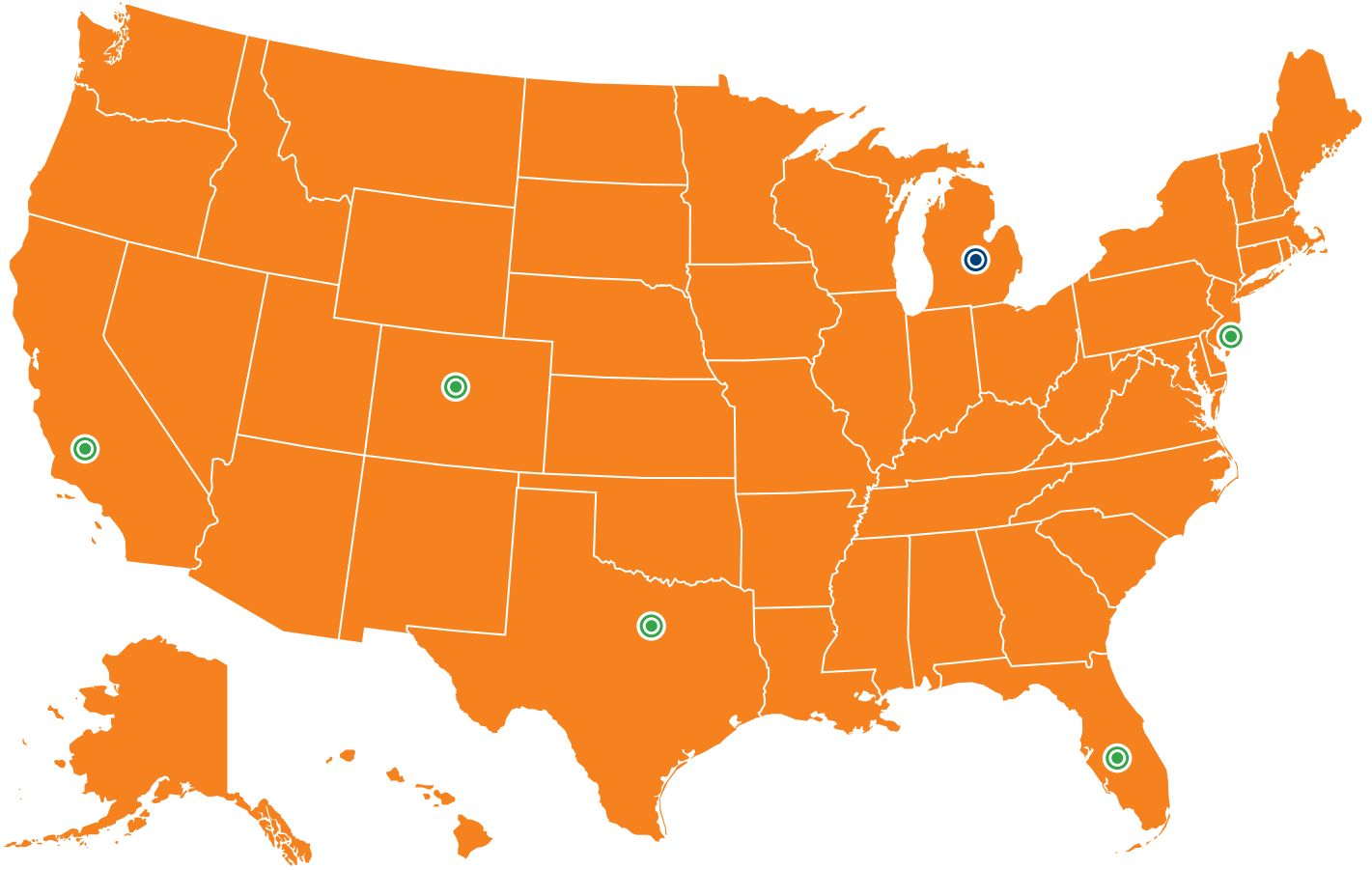
kV and mAs Range	40 - 110kV, [0.5 to 200mAs (110VAC) / 0.5 - 240mAs (220 - 240VAC)]
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## Collimator

Collimation Types	Hard & Soft Shutters with Circular IRIS
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## 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
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