

# ELIAN *Premium U-Arm*

## NEW GENERATION DIGITAL RADIOGRAPHY SYSTEM



### Key Benefits of ELIAN Premium U-Arm

- The ELIAN is a universal, fully motorized system.
- 17x17 in wired CsI detector with the highest DQE
- U-arm rotates  $+120^{\circ} \sim -30^{\circ}$
- SID travels 40 in  $\sim$  72in to enable any examination
- All movements can be automatically programmed
- Equipped with eleven(11) anti-collision sensors to safely protect patients and operators.

The ELIAN Premium Digital Universal Radiography System is a cost effective, workflow efficient approach to digital radiographic imaging designed to improve patient workflow in orthopedic practices, imaging centers, medical clinics, and hospital environments.

The ELIAN's unique compact U-arm design features dual telescoping arm movement that permits installation in settings having ceiling heights of just eight (8) feet. The ELIAN also provides dual-speed movement to improve user convenience, and the fast-moving arm increases the system throughput.

The ELIAN comes equipped with a OSKO Edge 17 x17 inch Cesium detector with the highest DQE enclosed in a durable detector assembly with an easily removable grid.

The ELIAN's fully motorized movements for SID, arm rotation, height, and detector angle can be automatically programmed to user-specific radiographic positions utilizing the intuitive graphic user interface located tube side or by using the technician workstation.

## U-Arm Stand

|                               |                                                                                                                                              |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Dual-Speed Motorized Movement | 1) Source to Image Distance (SID)<br>2) Arm Elevating Movement : Detector Arm/ Tube Arm<br>3) Rotation of Arm & Tube<br>4) Rotation of Bucky |
| Source to Image(SID)          | 40 in ~ 72 in (100 cm ~ 180 cm)                                                                                                              |
| Vertical Travel               | Max. 47.2 in (120 cm)                                                                                                                        |
| Arm Rotation Angle            | -30° ~ 120 °                                                                                                                                 |
| Tube Rotation                 | ±90°                                                                                                                                         |
| Detector Rotation             | ±45°                                                                                                                                         |
| Power Requirement             | 120VAC or 200~240VAC, 50/60Hz                                                                                                                |
| Grid                          | 215L, 10:1 ratio, FD 40-72 in                                                                                                                |
| Weight                        | 1,257 lbs (570 kg)                                                                                                                           |

## Mobile Patient Table

|            |                                   |
|------------|-----------------------------------|
| Dimensions | L 77.5 in x W 28.7 in x H 27.5 in |
| Casters    | Individual Locking Casters        |
| Weight     | 132.27 lbs (60 kg)                |

## Collimator

| Type                   | Manual                 | Automatic              |
|------------------------|------------------------|------------------------|
| Max. Operation Voltage | 150 kVp                | 150 kVp                |
| Rotation               | ± 90°                  | ± 90°                  |
| Max. Field Size        | 18.8 x 18.8 in @ 40 in | 18.8 x 18.8 in @ 40 in |
| Light Protection       | > 160 lux @ 40 in      | > 160 lux @ 40 in      |
| Light Source           | LED Lamp               | LED Lamp               |
| Auto Lamp Timer        | Push button 30 sec     | Push button 30 sec     |
| Inherent Filtration    | 1.2 mm Al              | 2 mm Al                |
| Leakage Radiation      | < 30 mR/h @ 40 in      | < 30 mR/h @ 40 in      |
| Laser guide (option)   | Yes (option)           | Yes (option)           |



## High Frequency Generator

| Output Power               | 40 kW            | 50kW                                 | 65 kW            |
|----------------------------|------------------|--------------------------------------|------------------|
| Max, high Frequency Output | 450 kHz          | 450 kHz                              | 450 kHz          |
| Input Voltage              | 1 Ø, 208/230 VAC | 3 Ø, 208/230 VAC<br>3 Ø, 400/480 VAC | 3 Ø, 400/480 VAC |
| kV Range                   | 40 to 125 kVp    | 40 to 150 kVp                        | 40 to 150 kVp    |
| kV Steps                   | 1 kVp            | 1 kVp                                | 1 kVp            |
| kV accuracy                | ±5 % + 1 kV      | ±5 % + 1 kV                          | ±5 % + 1 kV      |
| Rise Time (10 – 90%)       | < 1.5 ms         | < 1.5 ms                             | < 1.5 ms         |
| Time Range                 | 1 to 6300 ms     | 1 to 6300 ms                         | 1 to 6300 ms     |
| mAs Range                  | 0.1 to 500 mAs   | 0.1 to 630 mAs                       | 0.1 to 800 mAs   |
| mAs Accuracy               | ±(10% + 0.2) mAs | ±(10% + 0.2) mAs                     | ±(10% + 0.2) mAs |
| mA Range                   | 10 to 500 mA     | 10 to 630 mA                         | 10 to 800 mA     |
| Line Frequency             | 50 / 60 Hz       | 50 / 60 Hz                           | 50 / 60 Hz       |

## X-Ray Tube

| Tube voltage                | 40 to 125 kVp                              | 40 to 150 kVp                               | 40 to 150 kVp                               |
|-----------------------------|--------------------------------------------|---------------------------------------------|---------------------------------------------|
| Maximum tube current        | Small focus : 290mA<br>Large focus : 800mA | Small focus : 400mA<br>Large focus : 1000mA | Small focus : 500mA<br>Large focus : 1000mA |
| Anode Heat Storage Capacity | 200 kHU (142 kJ)                           | 300 kHU (210 kJ)                            | 400 kHU (285 kJ)                            |
| Target Angle                | 14°                                        | 12°                                         | 12°                                         |
| Focal Spot                  | 0.6 / 1.5 mm                               | 0.6 / 1.2 mm                                | 0.6 / 1.2 mm                                |

### Acquisition Workstation with monitor

|                    |                                     |
|--------------------|-------------------------------------|
| CPU                | Intel Core i5                       |
| Memory             | 16 GB RAM                           |
| HDD                | 1 TB                                |
| Operation Software | Microsoft Windows 10 Pro            |
| Monitor            | 23.8" Full HD Monitor (1920 x 1080) |

### Flat Panel Detector

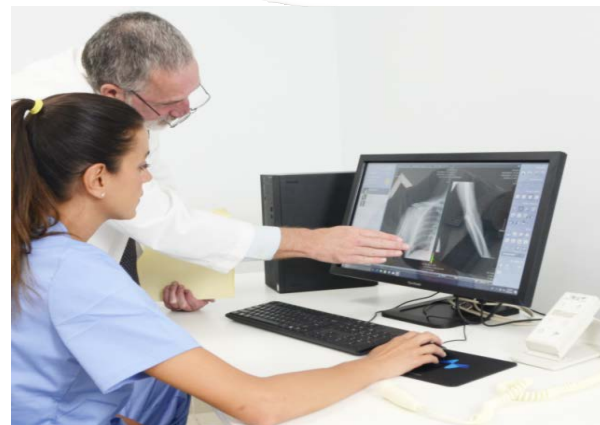
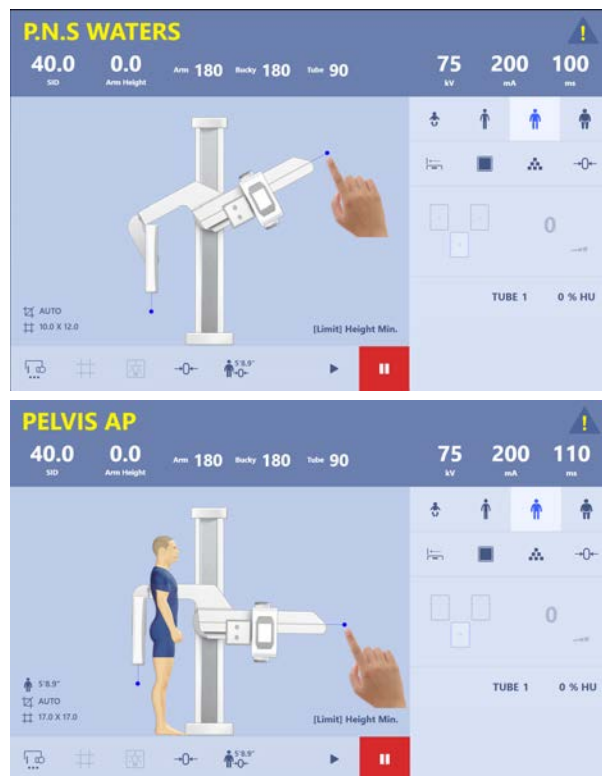
|                        |                         |                         |
|------------------------|-------------------------|-------------------------|
| Model name             | Edge                    | Edge Air                |
| Detection area         | 17 X 17 in              | 17 X 17 in              |
| Dimensions             | 460 X 460 X 15 mm       | 460 X 460 X 15 mm       |
| Active area            | 430.1 X 430.1 mm        | 430.1 X 430.1 mm        |
| Scintillator           | CsI, Cesium-Iodide      | CsI, Cesium-Iodide      |
| AED                    | Yes                     | Yes                     |
| Pixel matrix           | 3072 X 3072 pixels      | 3072 X 3072 pixels      |
| Pixel pitch            | 140 µm                  | 140 µm                  |
| A/D conversion         | 14 / 16 bits            | 14 / 16 bits            |
| Resolution             | 3.57 lp/mm              | 3.57 lp/mm              |
| Energy range           | 40 – 150 kV             | 40 – 150 kV             |
| Preview image time     | < 2.0 sec (2x2 binning) | < 2.0 sec (2x2 binning) |
| Data Transfer          | 1Gbps Ethernet          | 802.11AC Wireless LAN   |
| Weight                 | 9.7 lbs. (4.4 kg)       | 7.7 lbs. (3.5 kg)       |
| Water resistant        | -                       | IP66                    |
| Drop tested            | -                       | 47.2 in(1.2m)           |
| Battery operation time | -                       | Typ. 4 hours            |

### Flugel Image Acquisition Software Features

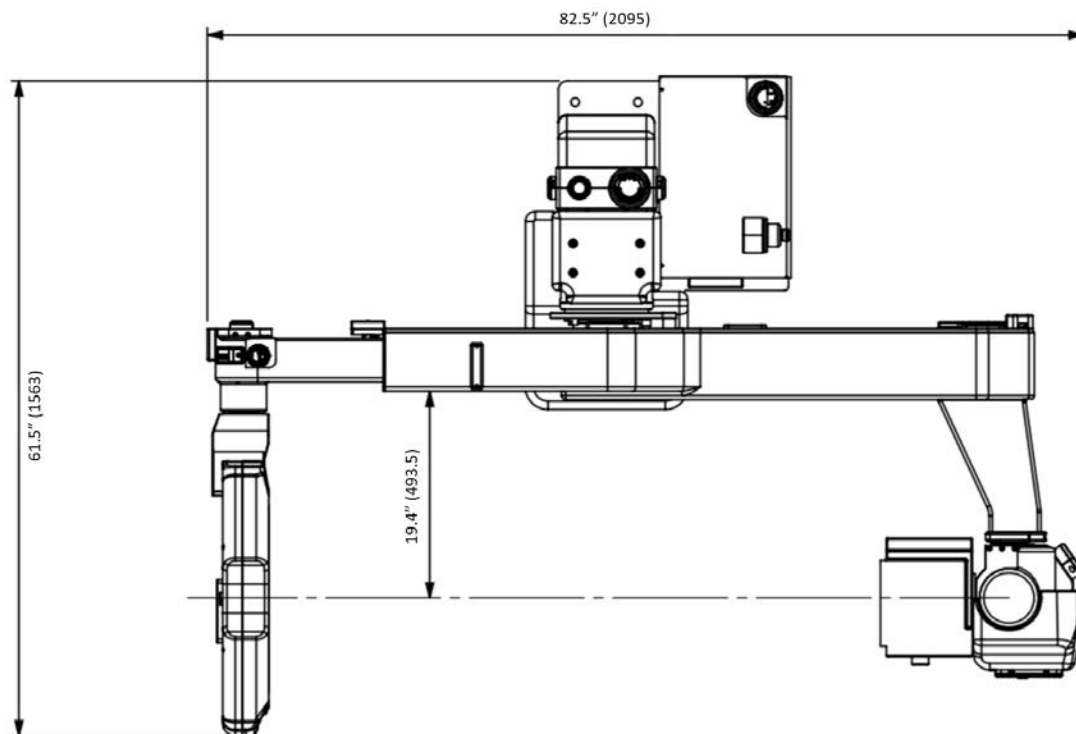
Medical Specific Exposure Exam List  
DICOM Modality Worklist, DICOM Storage, DICOM Send, DICOM Print  
Enhanced image processing parameters with Digital Exposure Index  
Analysis Statistics Report : tracks image acceptance, rejections, retakes, and deletion  
DICOM Store, Print and Modality Worklist  
Annotations including Text, Distance, Measurements, Angles, Electronic Markers  
Basic security features- customized technologist log in/log out & user  
Wireless signal on wireless panel, Detector battery indicator  
Comparison Mode- Click and drag images to view them side by side

### Operation Environment

|                              |                                 |
|------------------------------|---------------------------------|
| Ambient temperature          | 50 °F- 104°F / 10 °C- 40 °C     |
| Recommended room temperature | 71.6 °F- 78.8 °F / 22 °C- 26 °C |
| Relative air humidity        | 30% ~ 75%, non-condensing       |
| Atmospheric pressure         | 70 kPa to 106 kPa               |

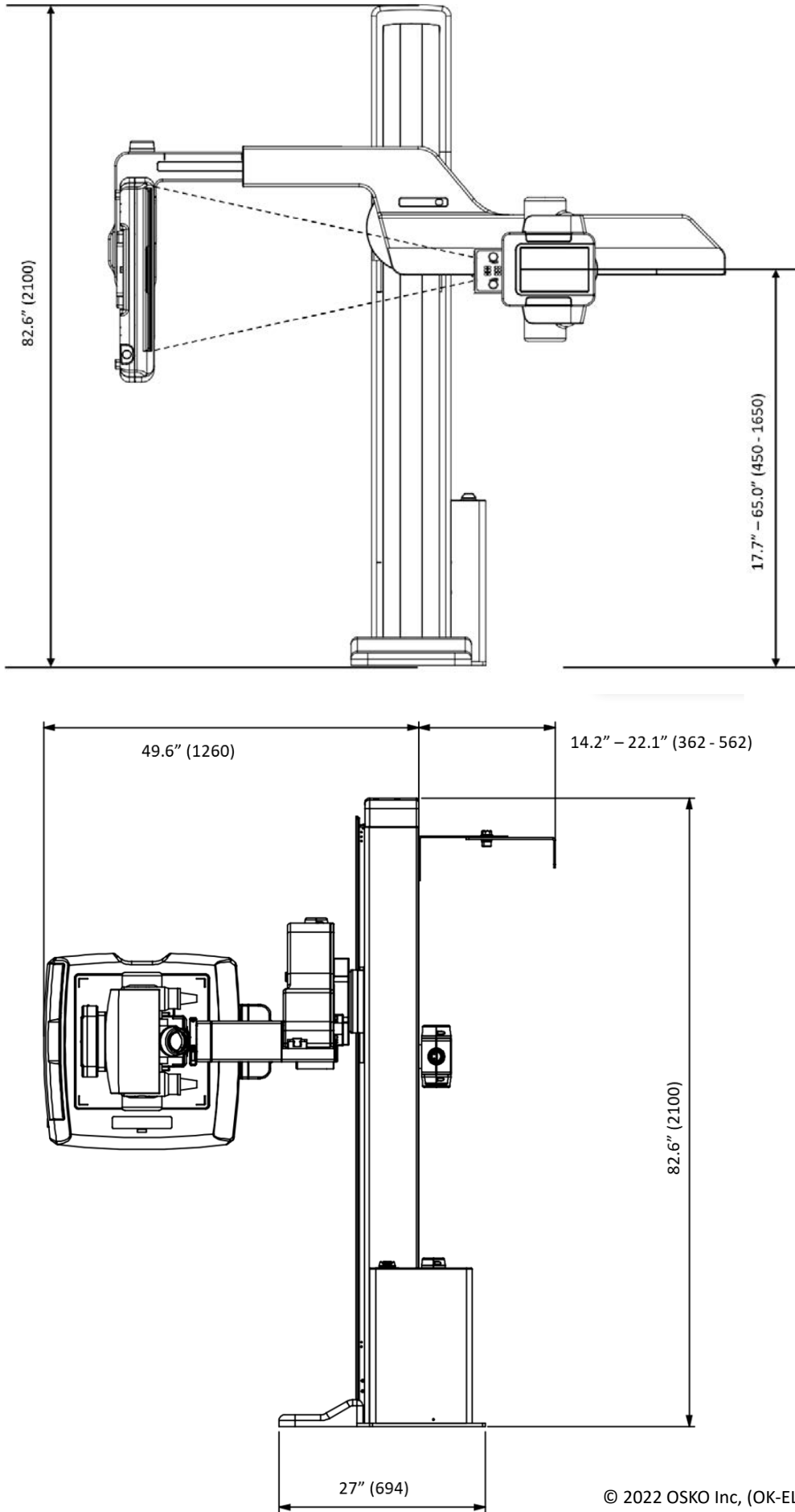


## Unit: feet, inches (mm)



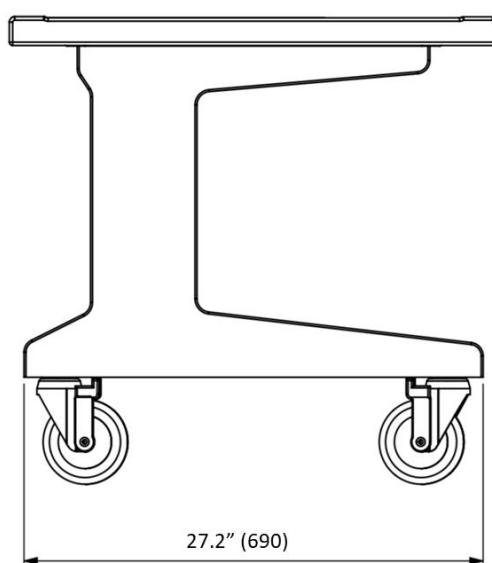
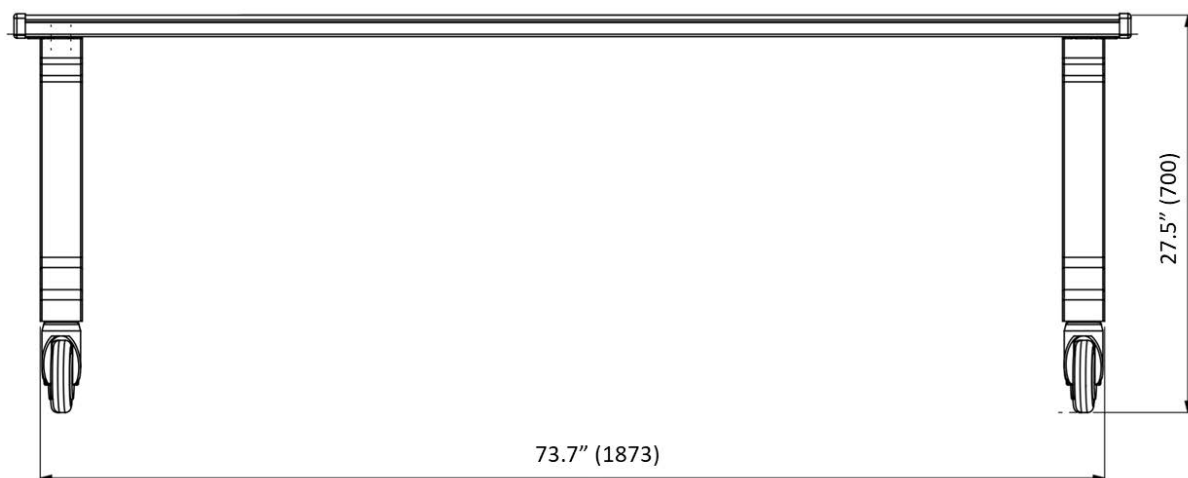
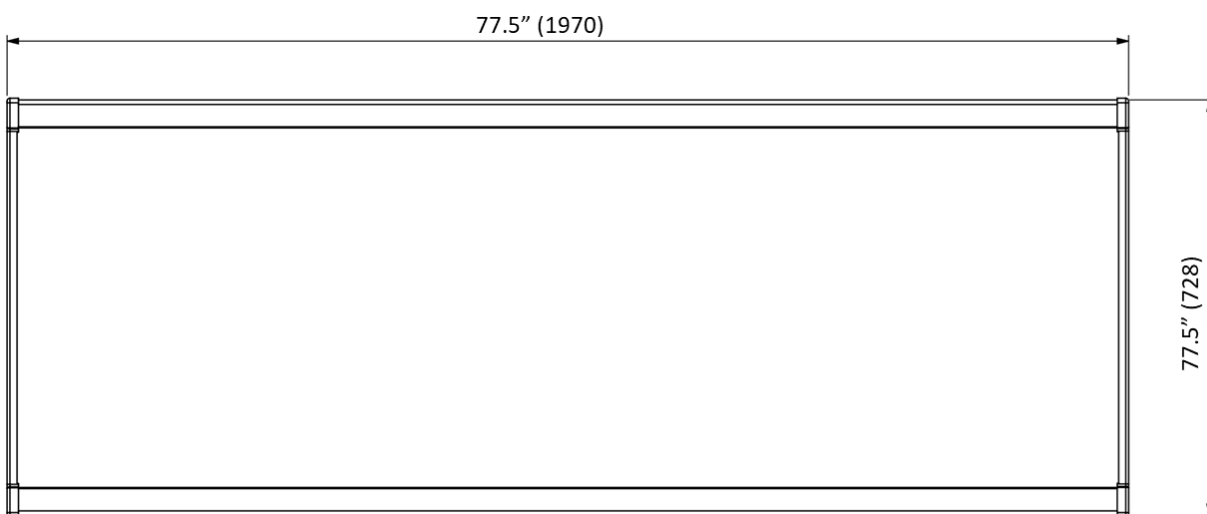
Dimensions

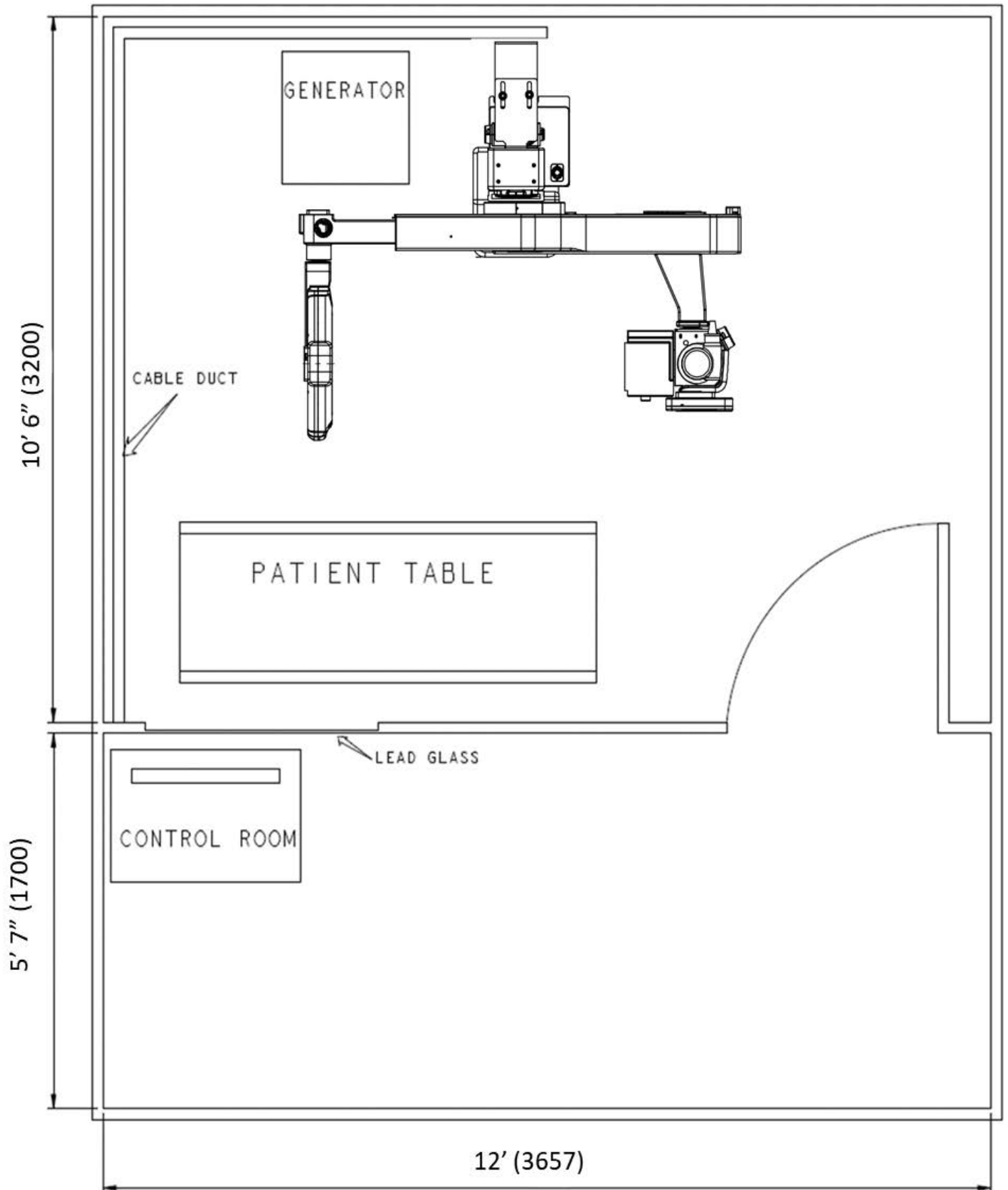
Unit: inches (mm)



Dimensions

Unit: inches (mm)







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Subject to technical modification.  
Our units and equipment must only be installed,  
serviced, and put into operation by qualified staff.