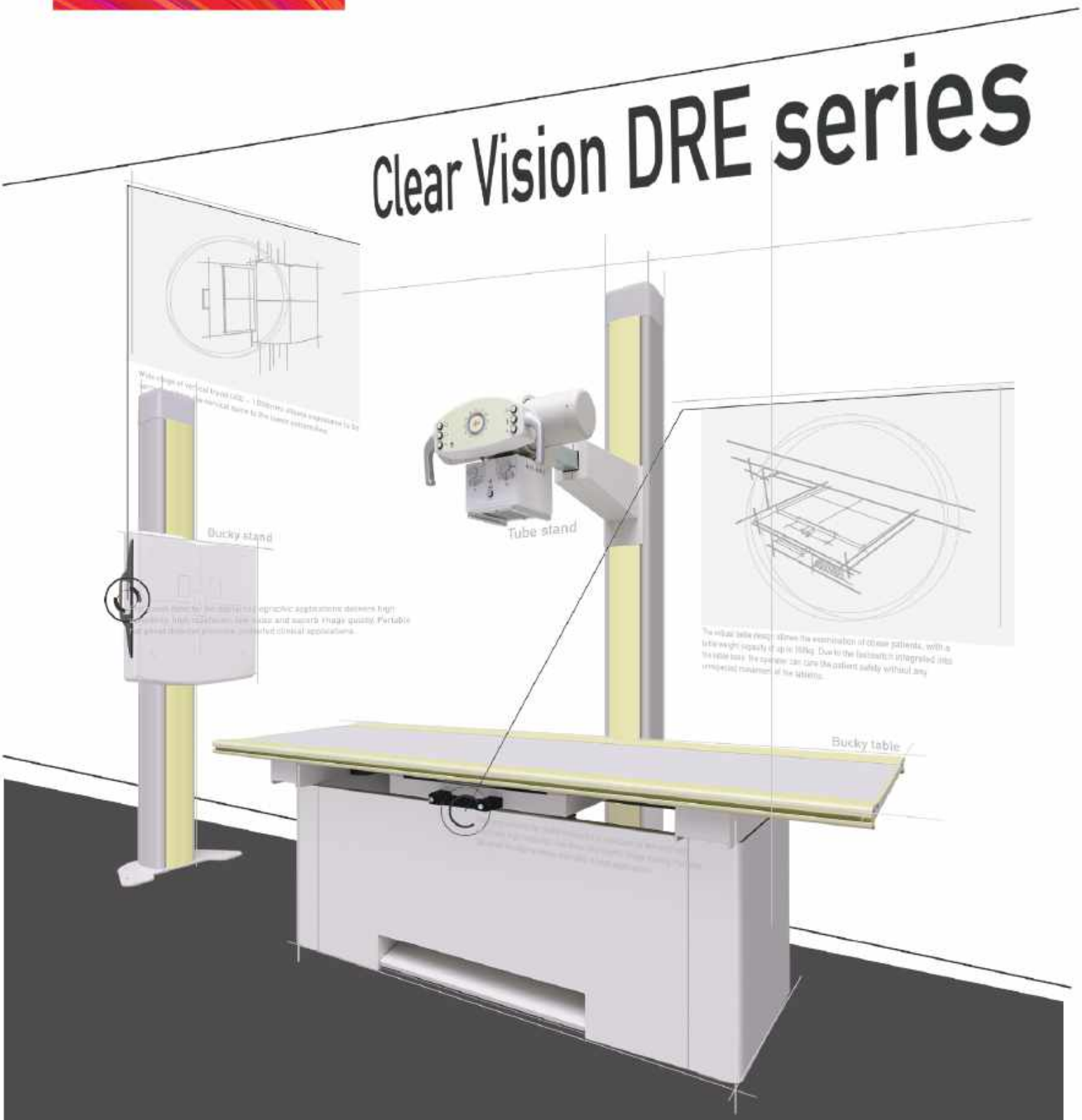
Healthcare
Improving Quality of Life

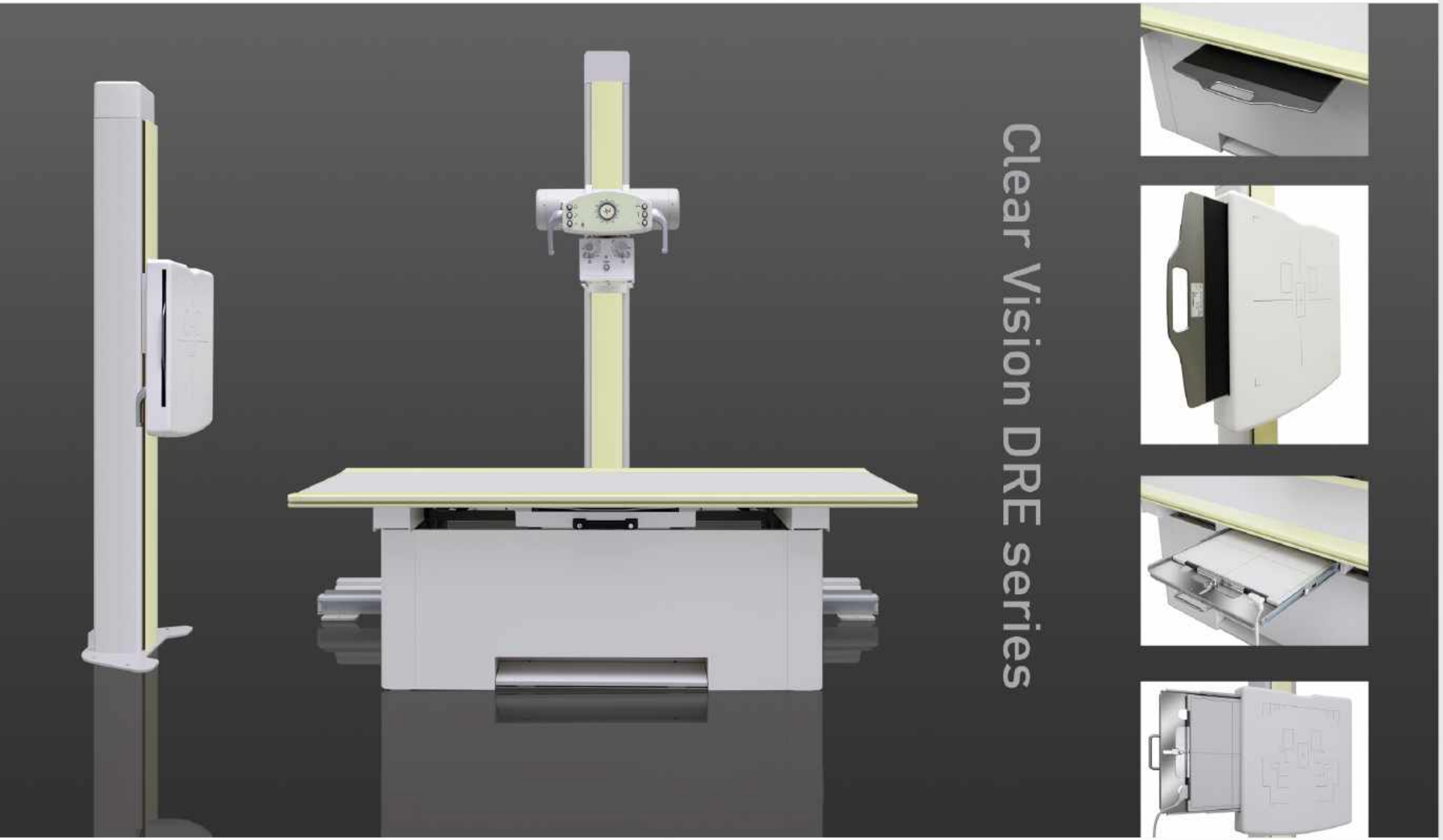
Clear Vision DRE series



Improving Quality of Life

Economic Digital Radiography System

Clear Vision DRE140
Clear Vision DRE150



Operation Software

ExamVue software presents a comprehensive set of X-ray image analysis tools through the use of an fast and easy-to-use interface. ExamVue offers high performance image processing and measurement functions.

X-ray Generator

High frequency generator ensures minimum patient dose, excellent reproducibility, and superior image contrast.

Flat panel detector

Flat panel detector for digital radiographic applications delivers high sensitivity, high resolution, low noise and superb image quality. Portable flat panel detector provides unlimited clinical applications.

Tube stand

Ergonomically designed tube stand provides the operator with faster and easier movement for table and stand examinations.

Bucky stand

Wide range of vertical travel (400 ~ 1,800mm) allows exposures to be carried out from the cervical spine to the lower extremities.

Bucky table

The robust table design allows the examination of obese patients, with a table weight capacity of up to 150kg. Due to the footswitch integrated into the table base the operator can care the patient safely without any unexpected movement of the tabletop.

Examvue Software

examvue



- Easy to use and learn

- Fully compatible with DICOM 3.0 standard
- Ability to convert and export images, archive to PACS
- Patient registration Worklist support

- Predefined and custom Image processing modes
- Optimized algorithms for each body part
- Standard Image manipulation tools such as : Windows level, Zoom, Pan, Crop, Invert, Rotation
- Standard measure tools such as : Length, Angle
- Image labels and text annotations

- Image import/export
- CD/DVD burning

- Image Stitching
- Side to side multi-image comparison
- Auto collimation
- Image Reject and Merge

User Friendly Design



(Changeable Skin)

Simple & Fast Workflow



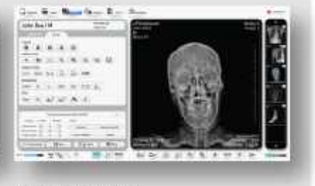
(Register mode)



(Exam mode)



(Review mode)



(Review mode)

Convenient Diagnosis Function



(Comparison)



(Expand)



(Full Screen)



(Multiple View)

Multiple Monitor



(Unlimited Additional Monitor Connections)

Specifications of the system

Generator

Max. Output	40kW	50kW
mA range	10 ~ 500mA	10 ~ 630mA
kV range	40 ~ 125kV	40 ~ 150kV
mAs range	0.1 ~ 630mAs	0.1 ~ 630mAs
Power supply	1Ø 220VAC 50/60Hz	3Ø 380VAC 50/60Hz
Exposure time	0.001 ~ 10sec	0.001 ~ 6.3sec
No. of APR	216	1,024
Option	AEC	AEC/ High speed rotor/ DAP/
Application	DRE140	DRE150
		

X-ray tube

Focal spot	1.0/2.0mm	0.6/1.2mm
Anode heal capacity	100kJ (140kHU)	210kJ (300kHU)
Target angle	16°	12°
Voltage range	40 - 125kV	40 - 150kV
Weight	16kg	18kg
Permanent filtration	0.9mmAl	0.9mmAl
Application	DRE140	DRE150
		

Flat panel detector

Scintillator	CsI	CsI
Pixel pitch	143μm	143μm
Resolution	3.7lp/mm	3.7lp/mm
MTF	36% (2.0lp/mm, 70kVp, 1x1)	36% (2.0lp/mm, 70kVp, 1x1)
DQE	70%	70%
Active Area	43 x 43.9cm	35 x 43cm
Pixel matrix	3,008 x 3,072	2,448 x 2,984
AD conversion	14 bits	16 bits
Energy range	40 ~ 150kVp	40 ~ 150kVp
Power supply	1Ø 100 ~ 240VAC 50/60Hz	1Ø 100 ~ 240VAC 50/60Hz
Dimension	512 x 495 x 43mm	460 x 384 x 15mm
Weight	16kg	3kg
Application	DRE140/150	DRE140/150
		

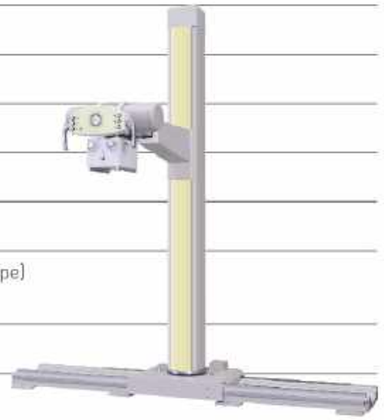
Collimator

Power supply	1Ø 24VAC 50/60Hz
Max. kVp shield	150kV
Max. field size	35 x 35cm at SID 65cm
Inherent filtration	1.2mmAl
Lamp luminosity	Over 160Lux
Lamp time	30sec
Field size control	Manual
Application	DRE140/150
	

Specifications of the system

Tube stand

Vertical travel distance	1,500mm
Transverse travel distance	260mm
Min. Tube height (from floor)	550mm
Max. Tube height (from floor)	2,050mm
Column rotation	±90°
Tube rotation	±180°
Longitudinal travel distance	2,400 ~ 3,000mm (floor ceiling fixed type) 1,500mm (floor fixed type)
Power supply	24VDC, 3A
Weight	200kg (with rails)
Application	DRE140/150



Bucky stand

Vertical travel distance	1,400mm
Min. Bucky height (from floor)	400mm
Max. Bucky height (from floor)	1,800mm
Power supply	1Ø 16 ~ 24VAC 50/60Hz
Weight	120kg
Application	DRE140/150



Bucky table

Table top size	2,000 x 745mm
Table top height	670mm
Table top material	Acryl
Longitudinal Travel distance	±280mm
Transverse travel distance	±140mm
Bucky travel distance	±230mm
Max. patient weight	Max. 150kg
Power supply	1Ø 220VAC 50/60Hz
Weight	160kg
Application	DRE140/150



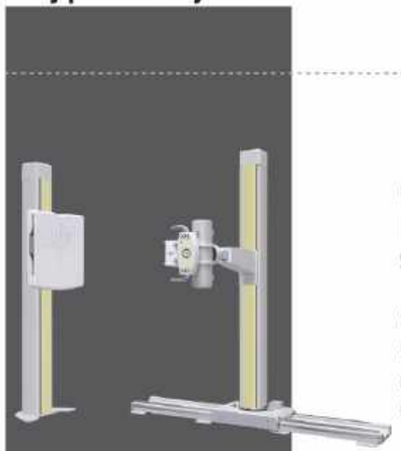
PC & Monitor

PC OS	Windows 7 sp1
CPU	Intel i5 3.3GHz
RAM	4GB
HDD	1TB
Network	100/1000 Mbps or Fiber
CD R	CD/DVD RW
LCD Monitor size	23inch
Resolution	1,920 X 1,080
Application	DRE140/150



Clear Vision DRE series

Types of system



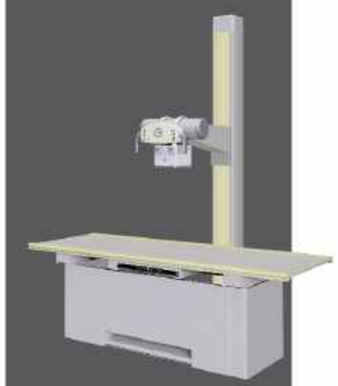
Clear Vision DRE 140/150

Bucky Stand + Tube Stand system

Single Detector (14X17 or 17X17)

Configuration:

Bucky stand, Tube stand(floor mounted or floor ceiling), Generator, PC&Monitor, Acquire software, Flat Panel Detector, Collimator



Clear Vision DRE 140/150

Tube Stand + Bucky Table(4way) system

Single Detector (14X17 or 17X17)

Configuration:

4Way Bucky table, Tube stand(floor mounted or floor ceiling), Generator, PC&Monitor, Acquire software, Flat Panel Detector, Collimator



Clear Vision DRE 140/150

Bucky Stand + Tube Stand + Bucky Table(4way) system

Single Detector (14X17)

Dual Detector (14X17 or 17X17)

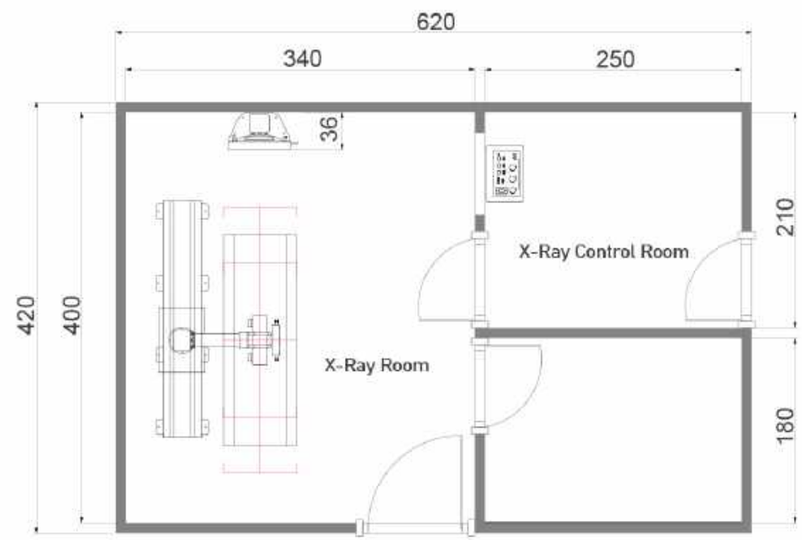
Configuration:

4Way Bucky table, Bucky stand, Tube stand(floor mounted or floor ceiling), Generator, PC&Monitor, Acquire software, Flat Panel Detector, Collimator

Configuration of the system

Components	DRE140 with fixed dual FPD	DRE140 with portable FPD (* with CR/film)	DRE150 with fixed dual FPD	DRE150 with portable FPD (* with CR/film)
40kW Generator	✓	✓ ✓	–	–
50kW Generator	–	–	✓	✓ ✓
17x17 Flat panel detector	✓	–	✓	–
14x17 Flat panel detector	–	✓	–	✓
150kV X-ray tube	–	–	✓	✓ ✓
125kV X-ray tube	✓	✓ ✓	–	–
Basic Configuration	* Tube stand, Bucky stand, Bucky table, PC & monitor, Acquisition Software			
	* upgradable to floor mounted Tube stand * for international sales			

Recommended Installation Room Layout



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