



KIRAN
A Division of TRIVITRON Healthcare



Fixed Radiography ULTISYS - 20/40/52/82



AERB & BIS Approved

*View Anything
And Everything*



The Ultisys Advantage

01

Scalability with a wide range of X-ray generators & adaptable to specific application and system configuration

02

Radiographs of standing and supine patients including patients on wheelchairs and stretchers

03

Easily upgradable to Full Digital Radiography System

04

Self Diagnostics Program to ensure error free functioning of the system

05

Versatile system with wide range of clinical applications

06

Flexibility to cover Full body examination without patient repositioning

07

Intuitive control console with Integrated Graphical Display APR (Anatomical Programming) and Optional AEC (Automatic Exposure Control)

08

Ergonomic design & convenient to use

09

Low Cost of Ownership

X - Ray Generator

- High Frequency - Multi pulse with 20 kW/ 40 kW/ 52 kW/ 82 kW Output options
- High data accuracy and reproducibility at shortest exposure time
- Compact size with low space requirement



Robust X-ray Tube

- Dual focus rotating anode X-ray tube - Generator compatible for all types of radiography procedures

Table

- Ergonomic Design
- Horizontal Table with DR Bucky/ Oscillating Bucky Grid
- Floating Table Top
- Patient Weight Capacity 300 Kg, Upgradable to 400 Kg



Vertical Bucky Stand

- Vertical travel upto 1350mm
- Electromagnetic Locking System
- DR Bucky/ Oscillating Bucky with integrated high density Anti Scatter Grid.

Ceiling Free Tube Stand

- Tube rotation angle $\pm 90^\circ$
- Tube column rotation $\pm 180^\circ$
- Longitudinal travel upto 1880 mm
- Electromagnetic brake mechanism
- Fully counter-balanced movement
- Tube centered to Bucky
- Central Control Movement of Tube stand



TECHNICAL SPECIFICATIONS

Model Names	Ultisys-20	Ultisys-40	Ultisys-52	Ultisys-82
GENERATOR				
Output Rating	20kW	40kW	52kW	82kW
kV Range	40-125 kV	40-125 kV	40-150 kV	40-150 kV
mA Range	80-250 mA Auto according to kVp selection	10-500mA	10-640mA	10-1000mA
mAs Range	1-320 mAs	0.1-500mAs	0.1-500mAs	0.1-500mAs
Maximum Output Power mA/kW@0.1s	250mA@60kV 160mA@80kV 120mA@100kV	400/16 @40 kV 500/30 @60 kV 500/40 @80 kV 400/40 @100 kV 320/40 @125 kV	400/16 @40 kV 650/39 @60 kV 625/50 @80 kV 500/50 @100 kV 400/50 @125 kV 330/50 @150 kV	400/16 @40 kV 800/48 @60 kV 800/64 @80 kV 800/80 @100 kV 640/80 @125 kV 530/80 @150 kV
Leakage Radiation	<2mR/hr	<2mR/hr	<2mR/hr	<2mR/hr

X-ray Tube				
Anode Speed	Low	Low	Low	Low and High
HU	140 KHU (100 KJ)	140 KHU (100 KJ)	300 KHU (210 KJ)	300 KHU (222 KJ)
Focal Spot	Small-1.0 Large-2.0	Small-1.0 Large-2.0	Small-0.6 Large-1.2	Small-0.6 Large-1.2
Inherent Filtration	0.70mmAl	0.70mmAl	0.90mmAl	0.80mmAl

CEILING FREE TUBE STAND	
Tube Rotation Angle	± 90°C
Longitudinal Travel	2500 mm
Brake Mechanism	Electro-magnetic
Balance	Counter Weight
Tube Centered to Bucky	
Fully Counterbalanced tube holding arm	

4 WAY FLOATING TABLE TOP	
Table Top	L: 2180 mm x W: 890 mm x H: 760 mm
	Filtration 1.2 mmAl
	Max Patient Wt. 300 kg (Upgradable to 400 kg)
Bucky Type	Oscillating Bucky with Integrated High Density Grid
Brake Mechanism	Electro - magnetic (Longitudinal & Transverse movement)
Anti Scatter Grid	Ratio: 10:1, 103LPI, Focal Distance: 100 cm

BUCKY WALL STAND			
Vertical Travel	1260 mm	Lock	Manual
Bucky Type	Oscillating Bucky with integrated High Density Grid	Grid	Focal Distance: 150 Cm

Collimator

Collimator control	Manual - Double Slot
Maximum X - ray field coverage	SID 100cm 440x440mm
Light Source	LED laser lamp with auto cut-off
Brightness of the Light Field	SID - 100 cm > 140 lux (average value)
Light Duration	DC 24V, 30 Secs \pm 5%

Installation data

Power required	3 phase, 380/400 V \pm 10% 50/60 Hz
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Options Available

Can be upgraded to Digital via DR Retrofit Kit
System can be made available with AEC (Automatic Exposure Control)

Floating Top Table Options

