socimed General Purpose Radiographic System

HF-525 plus

ACOMA technology, well-regarded and trusted as standard radiographic equipment over 20 years.

HF-525plus

General Purpose Radiographic System

The HF-525plus is an affordable and dependable general radiographic system designed for a wide range of table, wall stand, wheel chair and stretcher examinations. A Robust design ensures high reliability. It is a compact, cost-efficient radiography workplace based on a cassette catapult bucky.
As a reliable, easy-to-use solution, HF-525plus is especially suited for all acquisitions of skeletal radiography of the recumbent and seated patient.
Overview to the features of machine makes you discovered the HF-525plus exceptional ergonomics and ease of use.
It has been designed to give you an overview of the main HF-525plus Features:

- ***New high-frequency generator, housed beside the tube stand***
- ***Pedestal 4-way Floating Table Bucky***
- ***A fully counterbalanced integrated tube stand rotating 180 degree for superior flexibility (Floor mounted)***
- ***Wall Bucky Stand***
- ***User-friendly OP Console***
- ***Anatomical programming (APR) by morphology, view and body region (User programming)***
- ***Space saving design that fits into virtually any clinical environment***
- ***No room cabinets***

- Broad clinical flexibility
- Excellent image quality
- Productivity-enhancing ease of use
- Easy-to-use Controls Decrease Setup and Exam Times
- Ergonomic table designed to handle increasing caseloads

High-frequency generators optimize quality and workflow

HF-525plus comes with a reliable X-ray tube as well as a choice of generators to meet your budgetary and clinical requirements.
- A standardized generator platform, regardless of power rating, offers the same easy-to-use controls
- Choice of a generator (30, 40, or 50kW) provides the right amount of penetration, reducing exposure times and retakes
- Automatic exposure control provides precise control
Single-touch anatomical programs available for each anatomical region: access up to 288 unique anatomical program settings.

High Frequency X-ray Generators

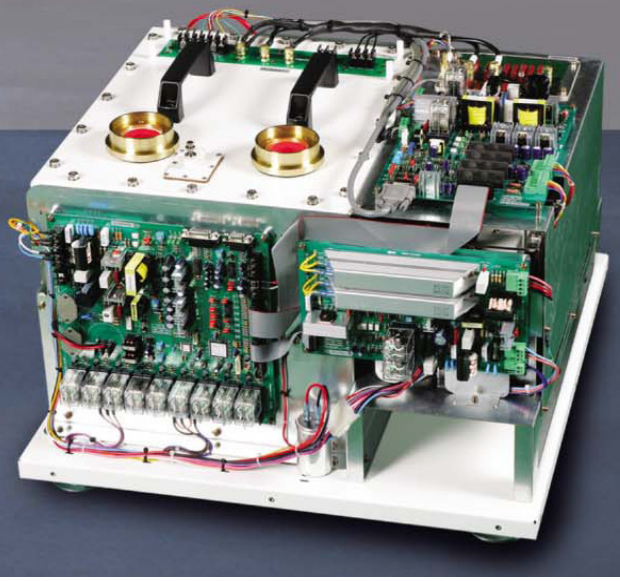
SPECIFICATIONS

Power Ratings of Constant Potential	30kW	40kW	50kW	
Radiographic kV range in 1 kV steps	40-125kV (1kV step)	40-125kV (1kV step)	40-150kV(1kV step)	40-150kV(1kV step)
Accuracy	± 3%	± 3%	± 3%	± 3%
mA Range and Stations	10, 25, 50, 75, 100, 150, 200, 250, 300	10, 25, 50, 75, 100, 150, 200, 250, 300, 400, 500	10, 25, 50, 75, 100, 150, 200, 250, 300, 400, 500, 630	10, 25, 50, 75, 100, 150, 200, 250, 300, 400, 500, 630, 800
Accuracy	(± 3%)	(± 3%)	(± 3%)	(± 3%)
Power Output	300mA @ 100kV 200mA @ 125kV	500mA @ 80kV 300mA @ 125kV	630mA @ 75kV 500mA @ 100kV 300mA @ 150kV	800mA @ 62kV 630mA @ 75kV 500mA @ 100kV 300mA @ 150kV
Exposure Time Range	0.001- 6 seconds (81 steps)	0.001-6 seconds (81 steps)	0.001-6 seconds (81 steps)	0.001- 6 seconds (81 steps)
Accuracy	± 2%	± 2%	± 2%	± 2%
mAs Range	0.1-500 mAs	0.1-500 mAs	0.1-600 mAs	0.1-600 mAs
High Voltage Ripple (TYP)	<1 kV @100kV			
Automatic Exposure Control (upto 2 chambers)	Optional			
Buckys (2 standard)	Standard			
Anatomical Program	Standard (288)			
Uninterruptible Power Supply (*)	Optional			

(*)Uninterruptible Power Supply option - Line Power Requirement is 500W

Fluoroscopic kV Range 1 kV steps		40-120kV (1 step)	40-120kV (1 step)	40-120kV (1 step)
Accuracy		± 3%	± 3%	± 3%
Automatic Brightness Control	Optional			
3 Point Operation Console	Standard			
Line Voltage Range and Phase	220 - 230VAC 50/60Hz Single Phase		380VAC 50/60Hz Three phase	
Automatic Line Compensation	± 15%	± 15%	± 15%	± 10%
Dimensions (mm)	590 * 600 * 440mm	590 * 600 * 440mm	590 * 600 * 440mm	590 * 600 * 440mm
Weight (Kg)	110KG	120KG	125KG	125KG

※ Above specifications can be modified without prior notice



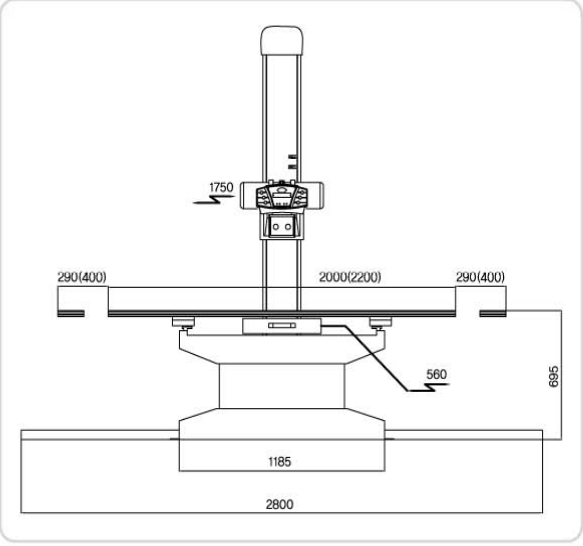
Internal appearance of High Frequency Generator

HF-525plus Technical Specifications

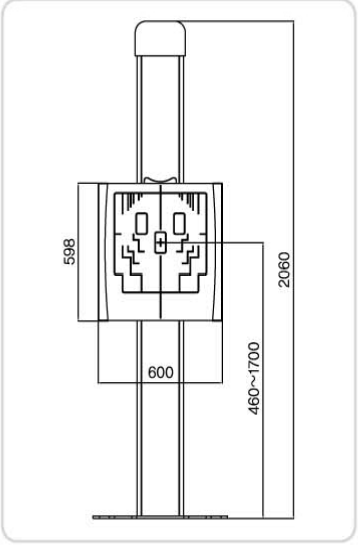
Category / Range		300mA	500mA	630mA	800mA
Generator	Frequency	40kHz			
	Power	30kW	40kW	50kW	50kW
	Max mA/kV	300mA/125kV	500mA/125kV	630mA/150kV	800mA/150kV
	Max rating	300mA at 100kV	500mA at 80kV	630mA at 75kV	800mA at 62kV
	mAs Range	0.1 - 500 mAs	0.1 - 500 mAs	0.1 - 600 mAs	0.1 - 600 mAs
	Exposure Time	0.001 - 6 seconds (81 steps) - 2%			
	APR	288			
	AEC	Available (optional)			
	OP console	LED (Or Digital Display), Desk top or Wall tapestry style			
	Line volatge (phase)	220VAC 50/60Hz single phase		380VAC 50/60Hz three phase	
Tube	Anode heating unit	140kHU standard (300kHU optional)		300kHU	
	Focal spot (Dual)	1.0/2.0mm (0.6/1.2mm optional)		0.6/1.2mm	
	Max mA/kVp	500mA/125kV		630mA/150kV	800mA/150kV
	Target angle	16° (12°)		12°	
	Collimator	Manual with electronic Timer & Meter (150kV)			
Tube Stand	Longitudinal travel	175cm			
	Transverse travel	26cm			
	Vertical travel	from 63cm to 187cm (from the ground level)			
Bucky Table	Type	Wide 4 way floating top style			
	Longitudinal travel	±29cm			
	Transverse travel	±14cm			
	Max. Patient weight	200kg			
	Cassette tray	Max. 17 x 17" accessible			
Wall Bucky Stand	Type	Top down movement			
	Grid	Solenoid type moving grid			
	Vertical travel	from 46cm to 170cm (from the ground level)			
Optional items	AEC	Three field ion chamber with AEC controller			
	High Speed Rotor	Available for 800mA as standard			
	PSU	Power Supplier (Power Storage Unit - Battery type) for general AC source			
	Ceiling suspension	Ceiling suspended tube carrier with four-part telescopic column			
	Elevation Table	6 Way (up/down) Elevation Table Bucky			

※ Above specifications can be modified or eliminated without prior notice
※ The dimension & weight information will be found in the Product Data document that includes all other detailed specifications.
※ The combinations of system configuration can be determined by the customers like tube, HFG and other optional items.

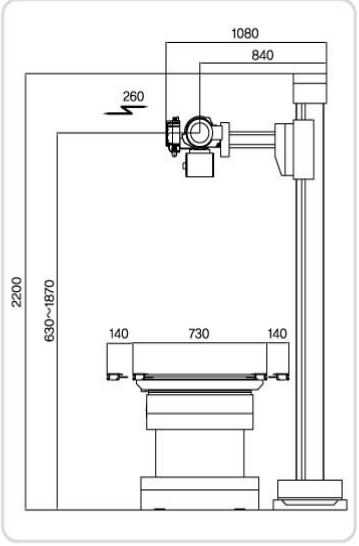
Front view Dimension



Wall Bucky Stand Dimension



Side view Dimension



Elevation table (Optional)

Features

- 6 Way table top for easy and quick patient positioning
- Smooth movement of the large floating tabletop
- Ergonomic unit requiring minimum field for installation
- Rugged modular construction for continuous heavy usage
- Automatic transverse and longitudinal centering index
- Minimum object to film distance
- Radiolucent table with slide rails for accessory attachment

Specifications

Category	Specification
Tabletop movement :	Approx. 35cm (48 ~ 83cm) vertical travel (Up/Down) ±33cm Longitudinal movement ±14cm Transversal movement
Tabletop to Film distance :	5 cm
Max. Loading of tabletop :	230kg
Tabletop Material :	1cm Melamine
Inherent Filteration :	Less than 0.9mm Al equivalent at 100kV
Bucky travel :	27cm
Bucky device movement :	Solenoid type
Film format :	Up to 17" x 17"
Grid ratio and density :	10:1, 103 lines/inch
Lock mechanism :	Electromagnetic lock
Power requirements :	220VAC 10A 50/60Hz
Dimension of Tabletop :	200 x 73cm

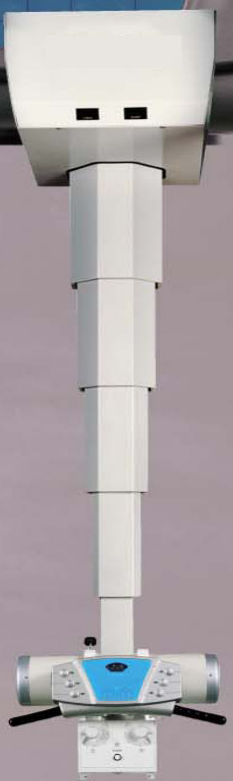
Tomography Version (Optional)

Tomo Specifications

- Tomo angle : 20degree / 40 degree
- Fulcrum range : 0 - 250mm
- Tomo moving speed (at 125mm height)
- Low speed - 8 sec (20 degree) / 4 sec (10 degree)
  Middle speed - 6.5sec (20degree) / 3.25 sec (10 degree)
  High speed - 5.5 sec (20 degree) / 2.75 sec (10 degree)
- Power ; 220VAC, 5A, 50/60Hz

Tomo Control

Ceiling Suspended Tube Supprt (Optional)



- A spring type fully counterbalance provides a heavy duty payloads suspension system.
- All the positions are maintained by clutch brakes operated from the control handle of tube with the highest quality electromagnetic locks.
- Large dual LED display provides SID readouts for tabletop and Bucky table film.
- Fully ranges of vertical, transverse travel and bridge capability can be smooth and conveniently controlled positional motion.
- Automatic locking system provides can be set up to accurate at predetermined location of vertical, longitudinal and horizontal SID.
- Safety warning lamp on the control handle tube indicates if any failure.
- Liquid crystal solid state digital readout vertical distance monitor provides convenient rapid response direct reading of X-ray tube travel distance.

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