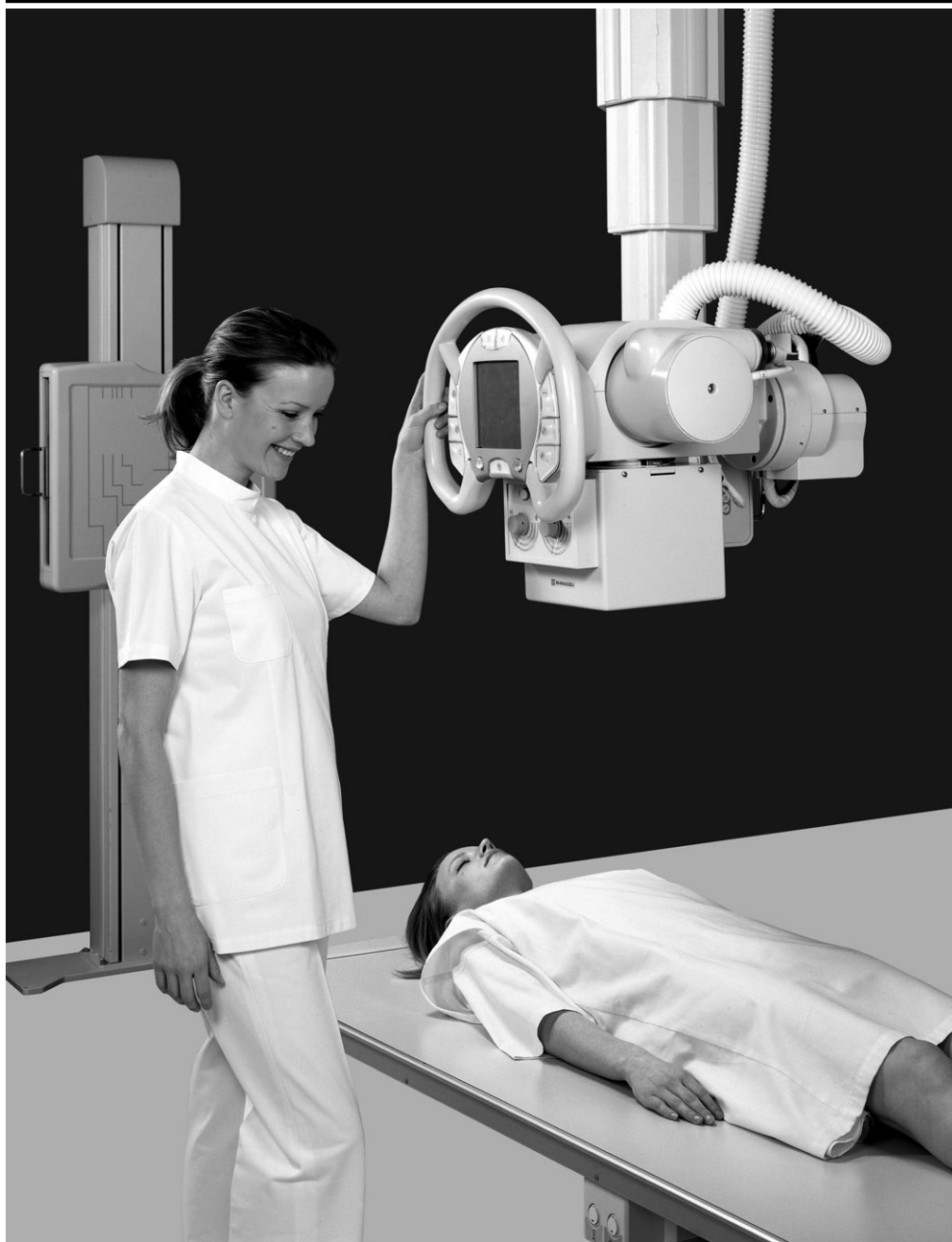


RadSpeed

 SHIMADZU



**Elevating Radiographic Table System
with Ceiling Tubemount
Product Data**

Table and Tubemount Specifications

TABLE AND BUCKY

Table base length	121 cm (48 inches)
Table base width	46 cm (18 inches)
Table top length	235 cm (92 inches)
Table top width	81 cm (31.9 inches)
Table top surface	Flat
Table top composition	Wood composite; carbon fiber optional
Table top Al. equivalence	1.43 mm Al. at 100 kVp wood composite; .72 mm carbon fiber
Table top capacity	295 kg (650 lb) fully extended
Table top movement	Floating, manual
Longitudinal movement	1150 cm (452.76 inches)
Transverse movement	25 cm (9.84 inches)
Table top to floor	Variable 53.5 – 85 cm (21.06-33.46 inches)
Table locks	Electromagnetic (power off/locks on)
Table lock controls	Foot treadle along table base for longitudinal and transverse, plus table top up/down movement (special vertical treadle design to minimize unintended lock release)
Table Bucky	Super speed, with three-field automatic exposure control (AEC), ion chamber
Bucky longitudinal travel	40 cm (15.75 inches)
Cassette sizes	18, 24, 30, 35 and 43 cm (7, 8, 10, 11, 12, 14 and 17 inches)
Object-to-film distance	33.5 mm (1.32 inches)

CEILING TUBEMOUNT

Tube carriage mount	4-way rail travel
Longitudinal travel	445 cm (175.2 inches) with 5.5 m rails; 295 cm (116.14 inches) with 4.0 m rails
Transverse travel	200 cm (78.74 inches)
Vertical tube travel	160 cm (63 inches)
Min. focal spot-to-ceiling	Approx. 85 cm (33 inches)
X-ray tube rotation around horizontal axis	300°; -180° to 120° (detents at -90°, and 90°)
X-ray tube rotation around vertical axis	360°; ±180° (detents at every 90° angle)
Locks	Electromagnetic (power off/locks on)
Front control buttons	Longitudinal, transverse, vertical and horizontal axis rotation, collimator lamp
Front control displays	Color touch screen with collimator and generator controls; SID (cm or inch display, service selectable with automatic change to measure to the tabletop when a cassette is not in the table Bucky), plus tube angle around horizontal axis

X-RAY TUBE AND COLLIMATION

Standard X-ray tube	0.6-1.2 mm dual focal spots 12° target angle Heat unit anode heat storage – 200 and 400 available
Collimator types	Automatic and manual option available
Inherent filtration	2.5 mm aluminum at 75 kV for collimator and X-ray tube

Additional prefiltration	.5 mm aluminum provided, 2.5 mm thickness available
Field lamp	Standard on automatic and manual
Accessory rails	Standard on automatic and manual
Retractable measuring tape	Standard on automatic and manual
Cassette size sensing	Automatic collimator type only

SERVO-TOMOGRAPHY OPTION

Type	Linkage-free (no mechanical linkage required), available as an option only with auto collimator configuration
Tomographic control location	Integrate with color touch pane front panel
Fulcrum height	0-25 cm continuously selectable in 1 mm increments
Tomographic SID	102 cm (40 inches)
Tomographic controls	Fulcrum up/down, sweep angle and speed selections
Tomographic displays	System ready, sweep angle, fulcrum height, slow/fast speed, tomographic SID
Tomographic selections	8° fast/slow 20° fast/slow 30° fast/slow 40° fast/slow
Tomographic speed	40° / sec

General Specifications

GENERAL PERFORMANCE

Types	3 Ø, high frequency 50, 65 and 80 kW 1 Ø, high frequency 50 kW
kVp range	40-150 kVp in 1-kVp steps
kVp accuracy	+ (3 kV + 3%) < 50 kVp + 3% > 50 kVp + (3% + 1) kVp measured at least 10 mS after commencement of exposure
mAs range	0.5 - 800 mAs
mAs accuracy	< + (0.6 mAs + 5%) + (5% + 0.5) mAs for exposures > 10 mS
Time range <i>37.5/50 kW</i>	.001 to 10 sec

OPERATING MODE-RELATED

Post-exposure readout	mA and exposure time
AEC	Three-field pickup standard
AEC film density: 50 kW	Variable in 5 steps from 50% of original value to 150%
65/80 kW	Variable in 16 steps, with density variation programmable
AEC film/screen combinations: 50/65/80 kW	3 combinations
AEC screen speed	3 selections

OUTPUT OF RADSPED GENERATORS

50 kW	65 kW	80 kW
150 kVp @ 320 mA 125 kVp @ 400 mA 100 kVp @ 500 mA 80 kVp @ 600 mA 70 kVp @ 700 mA	150 kVp @ 400 mA 125 kVp @ 500 mA 100 kVp @ 650 mA 80 kVp @ 800 mA	150 kVp @ 500 mA 125 kVp @ 630 mA 100 kVp @ 800 mA 80 kVp @ 1000 mA

AEC default	Default AEC termination at 520 mAs
kV compensation: 50 kW <i>65/80 kW</i>	8 kV compensation points at 40,56, 72, 90 and 125 kV 8 kV compensation points at 50, 55, 65, 75, 85, 95, 110, 130 kV
APR (anatomically programmed radiography): 50 kW	Standard with 120 programmable combinations of kV, mAs, patient thickness in CM, focal spot selection and image receptor
<i>65/80 kW</i>	Standard with 225 programmable combinations of kV, mAs, patient size (L, M, S), focal spot selection and image receptor

CONSOLE

Control type	Color touch panel LCD
Visual indicators of exposure techniques	kVp, time, mAs, AEC fields, focal spot, screen speed, exposure ON, ready
Visual indicators of exposure inhibition	Tube limit, backup timer, error codes, door interlock
Visual indicators of AEC override	kVp, mAs, AEC fields, focal spot, screen speed, density

Wall Bucky Specifications

WALL BUCKY SPECIFICATIONS

Standard type	Vertically movable Bucky
Bucky	Super speed with three-field automatic exposure control (AEC) state pickup
Vertical Bucky travel	152 cm (60 inches)
Vertical movement	Manual, fully counterbalanced 38 cm film center-to-floor minimum distance: 38 cm (15 inches)
Bucky front to wall	12-44 cm (16.5-17.3 inches)
Cassette sizes	18, 24, 30, 35 and 43 cm (7, 8, 10, 11, 12, 14 and 17 inches) English or metric in either orientation
Bucky front Al. equivalence	<.7 mm at 100 kVp

Miscellaneous Specifications

REGULATORY

Compliance CE – MDD, UL, ISO, VA/DPSC

POWER INPUT VOLTAGE

50 kW generator 1 Ø 200, 220, 240* VAC, 50/60 Hz

50/65/80 kW generator 3 Ø 380, 400, 415, 440, 480, 50/60 Hz
OR 200, 220, 240*, 50/60 Hz

Table 208 - 254 VAC, 1Ø, 50/60 Hz

Ceiling tubemount 200, 220, 230, 240 VAC, 1 Ø, 50/60 Hz

*Requires optional transformer

ENVIRONMENTAL

Operating temperature range 10 - 35° C (50 - 95°F)

Relative humidity range 15 - 95%, non-condensing

WEIGHTS

Complete table unit 320 kg (705 lb)

**Ceiling tubemount
(with tube/collimator)** 250 kg (551 lb)

Generator console 2.5 kg (5.5 lb)

**Main cabinet, 37.5/50 kW,
w/ generator components** 240 kg (529 lb)

Main cabinet, 65/80 kW 250 kg (551 lb)

System components cabinet 136 kg (300 lb)

Wall stand and Bucky 120 kg (265 lb)

DIMENSIONS (W X D X H)

Bucky table 235 x 82 x 53/85 cm)
(92.5 x 32.31 x 20.9/33.46 inches)

**Generator console:
(incl. pedestal stand)** 38 x 8.2 x 34.5 cm
(14.96 x 3.23 x 13.59 inches)

**Main cabinet, 50 kW
with generator components** 70 x 40 x 175 cm
(27.56 x 15.75 x 68.88 inches)

**Main cabinet, 65/80 kW
with generator components** 61 x 53 x 180 cm
(24 x 21 x 71 inches)

System cabinet, 65/80 kW 50 x 40 x 44 cm
(19.7 x 15.7 x 17.3 inches)

Wall stand and Bucky 63 x 36.5 x 215 cm
(24.8 x 14.4 x 84.6 inches)

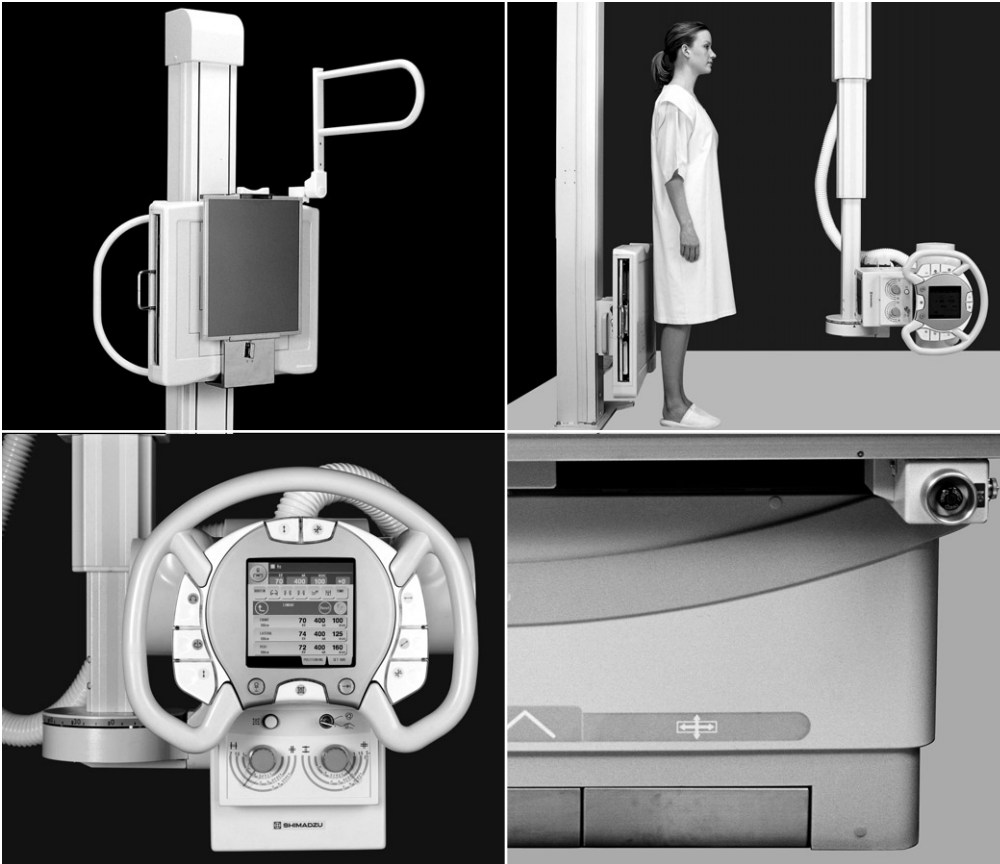
Ceiling tube 250 x 450 x 285 cm
(98.4 x 177.2 x 112.2 inches)

Ceiling tube cabinet 50 x 40 x 50 cm
(19.7 x 15.7 x 19.7 inches)

Specifications are subject to change without notice.

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