



TECHNICAL SPECIFICATION

ELEMAC CII

A mobile High Frequency C-Arm Image Intensifier high quality unit with following features.

Model : ELEMAC CII

Manufacturer : Elesonic Healthcare Pvt Ltd

GENERATOR:

Generator output of **3.5 kW High Frequency.**

Output frequency : **40 KHz** with less than 1% ripple factor.

Rise time to maximum power : Less than 1 ms

Inverter

Maximum performance frequency : **40Khz**

Maximum KV safety : 110KV

Mains Voltage : 230V AC +/- 10%, 50 Hz.

RADIOGRAPHIC PARAMETERS

KV range : 40 KVP to 110 KVP in 20 steps mAs : upto

100 mAs mA : 20 mA Timer: In steps from 10 ms to 5

Sec.

Exposure Switch :

Two step with extendable cord for radiographic exposure.

FLUOROSCOPIC PARAMETERS

Fluoroscopic Voltage : 40 KVP to 110 KVP.

mA for Low dose Fluoroscopy : 0.25 to 3.0 mA

mA for High Definition Fluoroscopy : 7.0 mA

ADR (automatic dose regulation) and manual mode; Automatic Dose Regulator (ADR) for automatic control of dose rate according to the thickness of the part under examination. Fluoro Timer : 5 Minutes auto cut off with buzzer.

Foot Switch : Foot switch facility for fluoroscopy.

Imaging modes

Fluoroscopy, Pulse Fluoroscopy and High

X-RAY TUBE

X-Ray Tube is Dual focus stationary anode tube insert of **small focus 0.6 mm x 0.6 mm and large focus 1.5 mm x 1.5mm.**

Selection: automatic selection of focal spot for fluoroscopy & radiography.

Performance Frequency 40KHz.

Operating Frequency 20KHz.

Mono block Tube housing Thermal Capacity : 670 KHU

Thermal safety : 57 deg C +/- 3deg

Inherent filtration of 2 mm Al eq

Thermo Tin Plated Housing for protection.

Thermal Auto cutoff switch of fluoroscopy and radiography in case of tube head temperature exceeding 60 ± 5 degree celcius;

Collimator system: Motorised iris collimator for concentric collimation ;

Digital Display

KVP, mAs and Fluoro/Radio mA.

CONTROL PANEL:

Compact, menu-aided & user-friendly control panel

The control have indicator for power on and control show error with proper written message on LCD display for any overload, X- ray Tube heating or any fault in machine.

I.I.T.V. SYSTEMS & MONITORS:

Nominal 9" Triple Field (9" /6" /4") Image intensifier selectable from control panel for 9" system and incorporating state of the art metal enamel technology & the following superb features:

- Reduced weight, minimum distortion, High DQE and conversion factor.
- Good Luminance distribution.

Specifications:

Reduced weight, minimum distortion, High DQE and conversion factor.

Good Luminance distribution.

Image center resolution are 48 lp/cm, 56 lp/cm, 66lp/cm

Useful entrance field size are 215mm, 160mm, 120mm

Diameter of output window is 20mm

Thickness of output window is 5.5mm

Contrast Ratio (10 %) - 25

Contrast Ratio (10mm) - 16

Conversion factor (cd/m² /mR/s) - 240

Conversion factor (cd/m² /μGy/s) - 28

Detective quantum efficiency (DQE)_IEC standard - 65%

The circular grid (8:1, 103 Lines) is fixed on the 1.1 to improve the image quality.

CASSETTE HOLDER : 10" x 12"

MONITOR:

17" (Inch) High Resolution Monitors - 2 nos.

MONITOR TROLLEY:

Ergonomically designed Monitor Trolley with 2 shelf for keeping memory and stabilizer.

C-ARM with following movements

C-arm stand is ruggedly built and good designed. It have steering for controlling back and front wheel movements and also have the below mentioned movements:-

C-Arm rotation: +/-360 degree

Focus to I.I Clearance : 767mm

Motorized Vertical travel: 400 mm

Focus to II distance 900mm

Panning movement: +/-12.5 degree;

Orbital movement: 120 degree

Horizontal travel: 200 mm

IMAGE MEMORY & ESSENTIAL ACCESSORIES

Image memory of 100 frames permanent storage capacity & facility for last image hold with inbuilt USB port for copying images to Pen Drive.

Image Zoom function with horizontal and vertical pan.

Zoom feature (x2 & x3)
 Image Mirror function
 Image rotation 360° (In steps of 1°)
 Keeps date and time
 Image Capture ~ 1/25th of a second.
 Averaging upto 16 frame
 Contrast enhancement function
 Permanent image storage in internal memory (Images are retained)
 Feature of Live / Pulse / LIH
 Different functions can be operated by **I.R. Remote Control** which makes it hassle free for the operator.

STABILIZER:

Servo Controlled automatic Voltage Stabilizer to compensate incoming supply from 180V to 260V step less, rated power 2 KVA, for steady input to IITV system.

8 (eight) nos. quality approved lead aprons provided with the machine.

8 Nos. of thyroid collar to supplied with the Machine.

The quoted model is approved by AERB.

'C' ARM COMPATIBLE O. T. TABLE WITH ORTHO-ATTACHMENT

Electrically operated, operation Table, four sections radio-translucent top with encentric pillars, Full length C-Arm Compatible having all surgical positions (raising/lowering, Trendlenberg, reverse Trendlenberg, lateral tilt, flex/reflex & chair position), interchangeable head and leg section. **Operated with cable remote.**

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ELEMAC CII

POSITION :

Trendlenberg & Reverse Trendlenberg - 25 deg.
 Lateral tilt - Both sides 22 deg.
 Head section detachable - 90 deg. Up
 Leg section - 90 deg. Down (Manual)
 Flex/Reflex - 30 deg./220 deg.

STANDARD ACCESSORIES:

Anesthetic frame - 1 pc
 Shoulder support with pad - 1 pair
 Lateral support with pad - 1 pair
 Arm board with S.S. Top - 1 Pair
 Knee crutches Goepel type - 1 pair
 Wrist strap - 1 pair
 Body restraint strap - 1 pc
 Water proof rubber mattress (antistatic) - 1 set

STANDARD ACCESSORIES WITH ORTHO – ATTACHMENT:

Pelvic rest in 2 sizes
 Lateral support for femur treatment
 Orthopaedic shoe-plate
 Adjustable thigh supports (padded)
 Knee support for lower limb surgery
 Hand traction device
 Hand surgery table with telescopic support



Helping Make Lives Better

An ISO 9001:2015, ISO 13485:2016 & CE Certified Company

Elesonic Group of Companies:

• Elesonic Healthcare Private Limited.

(India)

• Elesonic Medical Systems Nigeria Limited.

(West Africa)

ELESONIC™

Manufactured & Marketed by:

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Self declaration: BIS-IS-13450(Part-2): 2016 Compliant

ISO : 9001: 2015 CERTIFIED
ISO : 13485 : 2016 CERTIFIED

CE CERTIFIED

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Elesonic Healthcare Private Limited reserves the right to change any specification at any point of time due to constant R&D.