



Analytical Technologies 600mA X-Ray Machine with Fluoroscopy (IITV)



ATL 3660 XM

Specification:-

A. The Radiography & Fluoroscopy system has a High Frequency type generator

1. The Unit is Compact and occupy minimum space

B. X-Ray High Frequency Generator

1. 65 Kw or more High Frequency generator with inverter frequency of not less than 30 kHz.
2. Maximum output: 65 kW or above (600 mA @ 100 kV)
3. Two tube selection – Capable of connecting two tubes.
4. IBS/ADR for auto stabilization for fluoroscopy – Standard
5. Radiographic kV range: 40 – 125 kV
6. Radiographic mA range: 10 – 600mA
7. Anatomical program memory – user programmable – 50 programs or more
8. Exposure parameter display available

9. Microprocessor controlled automatic exposure control.
10. Automatic setting of optimal radiography parameters and fluoroscopy parameters (kV,mAs).
11. Pulsed fluoroscopy is possible.

C. X – Ray Tube

1. Anode heat capacity – 300 kHU or more
2. Focal spot size – Small focus – not more than 0.6mm ; Large focus – not more than 1.2mm
3. Maximum KV : 100 kV or more.
4. Maximum mA : 600 mA
5. Rotating anode.

D. Overhead tube

1. Anode heat capacity – 200 kHU or more
2. Focal spot size – Small focus – not more than 0.6mm , Large focus – not more than 1.2mm
3. Maximum KV 125 kV or more.
4. Maximum mA 600 mA at 100 KV
5. Rotating anode – Normal Speed.

E. Radiography – Fluoroscopy Table

1. Table & table top operations is completely motorized.
2. Table tilt: +90 to -12 deg or better.
3. Table is Motorized Elevating type for easy patient access
4. Longitudinal movement.
5. Electromagnetic Locking of spot film device.
6. Motorized Collimator with light beam
7. Fully Counterbalanced Bucky cabinet with electromagnetic brakes.
8. Cassette / film size: 8 x 10 in, 10 x 12, 14 x 14 & 14 x 17 in..



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9. Exposure programs: Up to 4 on 1 is possible on Cassette spot Film - 3 on 1 for 14 x 17 and 12 x 10 is possible.
10. Rapid spot filming is possible.
11. Automatic Cassette Spot filming is possible
12. X Ray Grid: 10:1 or better
13. Flat table top with step-less adjustment of foot-rest.
14. Foot switch for examinations at the patient bed side.
15. Remote console with Monitor mount
16. Table side controls for controlling the table movements
17. X ray tube 180 degree swing out is provided for chest X- Ray.
18. Same Tube is able to take Chest X-Rays
19. Chest stand is provided
20. Foot rest, Shoulder rest, Hand Grips and Binder is provided.

F. Radiographic Wall Stand

1. Floor mounted radiographic wall stand
2. Vertical movement of at least 100 cm.
3. Capable of taking Cassette of sizes 5"x7" to 14"x17"
4. Very high ratio Grid.

G. Column stand

1. Floor mounted column stand
2. Rotation of column stand full 360 deg.

H. Image Intensifier & Camera

1. Input field: 9"
2. Resolution: Not less than 45 lp/cm
3. Contrast ratio: Not less than 30:1



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4. CCD camera 1k x 1k pixels or better with Last Image Hold.
5. 19" or more Monochrome LCD Medical Grade Monitors
6. Image Reversal.
7. Flicker Free Monitor
8. Automatic gain control (suitable for high frequency X-ray generators).
9. Trolley for mounting the LCD Monitors
10. Intercom between console and fluoroscopy room.

I. Memory System:

1. Permanent Image Storage capacity of Approx.10,000 Images.
2. More than 1000 images storage capacity in 1k x 1k format.
3. 50 Temporary Image Storage for quick review
4. Dicom 3.0 compatibility
5. Dicom CD & DVD writer
6. 32-bit image storage for excellent resolution
7. Image sharpening (Real-time or stored images)
8. Image Rotation
9. Image flipping
10. Image Invert
11. Window Level/Window width manipulations
12. Recursive filters
13. Gamma curve adjustment for optimum image quality
14. Image zoom with pan
15. Colorized Images
16. Length, angle and area measurements with annotations.
17. Digital Subtraction of image



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18. Cine loop of 500 frames (Multiple Cine Loops can be stored permanently)
19. Variable frame rate of 2,5, 10, 15, 27 frames per second for cine loop
20. Images can be stored in folders of individual patient name.
21. Facility for image printing
22. Text annotation and provision of removal of all text from the image
23. Automatic capture and storage of Cine loop with cine foot switch
24. Thumb nail use of complete study
25. Frame by frame review
26. Frame rate selection
27. LAN connectivity
28. DICOM compatibility

H. Accessories-

1. Cassette 15" x 12" , 12"x10" ,. 10" x 8" ,. 14" x 14" ,. 17" x 14" .
2. Lead Aprons – Full covered.. Lead equivalent minimum 0.5mm
3. X ray viewing box 4 films and 2 films.
4. Stabilizer for the entire equipment
5. Split A/C 1.5 ton (5 star rating) with separate wall mounted stabilizer



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