GE AMX 4 Plus Portable X-Ray Machine

The **GE AMX 4 Plus** portable X-ray is designed for easy of operation. Each time you push a button, you can depend on the same consistent radiographic quality that is seen in a full scale X-ray. Since the AMX 4 Plus is battery operated, there is no need to plug in your mobile X-ray unit before taking exposures. This makes it easily adapted to operating, intensive care, and emergency room applications.

Features

- Analog X-ray system in a compact, easy-to-manuver package.
- Up to 50 high-quality exposures with a single charge.
- Dual drive motors and oversized casters that facilitate movement even in taxing environments.
- Operator controls are microprocessor based, combining the latest technology with simplicity of design.
- Message display to provide helpful information on the operating status of the system.
- Ergonomic Handswitch Controls.
- Compact manual Collimator with built-in SID button on collimator face.

SOMA TECH INTL • 166 HIGHLAND PARK DRIVE • BLOOMFIELD, CT 06002 • USA
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Specifications

Dimensions

- Height: 70 inches (177.8 cm) for Models 2169360–6, 2236420–6, and 2275938–6, –12, –13, –14,–15; all others 76 inches (193 cm).
- Width: 25–3/16 inches (64.0 cm)
- Length: 45–3/8 inches (115.3 cm)
- Weight: 1080 pounds (490 kg

Environmental Limits

- Operating temperature range: 59 to 100 Degrees Fahrenheit (15 to 38 Degrees Celsius) at 80% non–condensing humidity.
- Storage temperature range –40 to +140 Degrees Fahrenheit (–40 to +60 Degrees Celsius)
- Maximum operating altitude: 8,000 feet (2440 meters).

Battery

- Nine 12.9 volt batteries connected in series provide approximately 116 volts at full charge.

Movements

- Tube vertical movement measured at the focal spot (arm extended)
  - Range at least 46.5 inches
  - Lowest position 26.1 inches
  - Highest position 72.6 inches
- The horizontal movement measured at the focal spot relative to column face is 24 inches (61.0 cm) minimum, to 40 inches (101.6 cm) maximum.
- Tube Column rotation measured from horizontal arm latch is +/–270 degrees.
- Tube and yoke rotation around Horizontal Arm measured from tube port down position:
  - Range 360 degrees;
  - Detent locations, +/–90, and +/–180 degrees.
- Tube Trunnion rotation measured from tube port down position:
  - Range 120 degrees;
  - Forward 110 degrees;
  - Backward 10 degrees;
  - Detent 0 degrees, and 90 degrees.
- Collimator Rotation measured from the front of the collimator with the tube port facing down:
  - Range 180 degrees;
  - Right 90 degrees;
  - Left 90 degrees;
  - Detent 0 and 90 degrees.

Drive Speed

- Drive Speed is 264 feet (670.5 cm) per minute +/– 25%;
- 2. Maneuvering Speed is 30% to 60% of drive speed.

kVp Accuracy

- Rise time of the kVp wave form from 10% to 90% of the maximum kVp is 1.2 millisecond or less.
- Fall time of the kVp wave form from 90% of the maximum kV to 20 kV is 2.5 milliseconds or less.
- Accuracy of the kVp wave form to selected kVp is +/– 8% of the value displayed on the operator panel for the first 20 ms and +/– 5% after 20 ms. Accuracy applies within the range of the bar graph battery charge indicator.

Collimator Function

- Type: Manual
- Minimum source to skin distance is limited to more than 30 centimeters by the skin spacers at the beam exit of the collimator.
- Full 17 by 17 inch (43 by 43 centimeters) radiographic coverage at 40 inch (1.02 meter) Source to Image Distance.
- Minimum inherent filtration of 2.0 mm aluminum equivalent at 100 kVp.

Collimator Light Field Intensity

- The average illumination at a distance of 100 cm (39.37 inch) from the focal spot shall be 16 foot candles (170 lux) or more.

Generator Performance/Tubes

- 0.75 mm focal spot (NEMA): 3 inch rotating anode: GE X-Ray tube model HRT09.
- 275,000 HU anode heat storage capacity.
- 15° target angle.
- Low speed (3,000 rpm) operation only (See Product Data Sheet D1046)
- Generator is closed loop kVp design using microprocessor regulation to assure constant and accurate kVp at all battery conditions.

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