

VetiGen P58

Veterinary Portable X-ray Unit

Specification



1 General Description

It is clinically indicated for digital radiography of the chest, abdomen, bone and soft tissue.

2 High voltage generator

2.1 Overview

- Maximum inverter frequency: 400 kHz
- Manufacturer: Mindray Animal Medical
- Model: AM5GP
- KV-mA-ms. KV-mAs real-time adjustment control with high accuracy
- General 100 -240 V AC power distribution

2.2 Parameters

- Nominal electric power: 5kW
- Maximum electric power: 5kW
- Tube current range: 12.5 mA~100 mA Large mAs reduce blurring due to organ movement, especially beneficial for chest x-ray
- Current-time product: 0.16mAs~160mAs
- Loading time range: 1.6 ms~8000 ms
- Tube voltage range: Adjust the 40 kV~125 kV number key, and the minimum adjustment step is 1 kV
- Maximum output power loading parameters: 100kV 50mA 100ms
- Cooling mode: Natural air cooling
- Input power specifications: AC single-phase, 100 -240VAC, $\pm 10\%$ 50/60 Hz ± 1 Hz

- Radiation Dose: Displayed on the Touch Screen User Interface

3 X-ray tube assembly

3.1 Overview

X-ray emitting elements in the DR device

3.2 DF-183SB Parameters

- Stationary anode X-ray tube
- Manufacturer: Canon
- Model: DF-183SB
- Anode heat content: 28 kJ
- Maximum anode heat dissipation: 265 W
- Target angle: 16°
- Target material: Tungsten
- Nominal Focal Spot Value: Dual focus 0.5/1.8
- Tube voltage: 125 kV
- Cooling mode: Natural air cooling
- Permanent filtration of tube assembly: 0.8mmAl/75 kV

4 Collimator

4.1 Overview

- Zoom and collimate the X-ray beam
- Manufacturer: Mindray Animal Medical

4.2 Collimator parameters

- Intrinsic filtration: $\geq 1.7\text{mmAl}/75\text{ kV}$
- Light field indicator: LED
- Maximum beam size: $\geq 43 \times 43\text{ cm}$ (When the SID is 85cm)
- Minimum beam size: $0 \times 0\text{ cm}$
- Input power: 24 V DC
- Illuminance: $\geq 150\text{ lux}/\text{SID } 1\text{ m}$

5 System

5.1 Physical Information

- Total filtration:
 - 3.0mmAl (Canon DF-183SB)
- Dimension: 395× 285× 245 (height×width×depth: mm)
- Net weight (Standard configuration): 15.8±0.2kg
- Footswitch cable length: About 3m

5.2 Others

- LED exposure indicator: Status indicator color
 - White: Normal operation
 - Green: Ready for exposure
 - Yellow: Load exposure

5.3 Touch screen

- 10-inch high sensitivity anti-glare color touch screen
- Resolution: 1024*600

6 Environment

6.1 Operating Environment

- Temperature: 10°C~40°C;
- Relative humidity: 20 %~85%
- Atmospheric pressure: 62kPa~106kPa

6.2 Storage and transportation environment

- Temperature: -20°C ~60°C
- Relative humidity: 10 %~90%
- Atmospheric pressure: 50kPa~106kPa
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7 Safety and Conformance

7.1 Quality standards

- ISO 9001

7.2 Design standards

- EN 60601-1 and IEC 60601-1
- EN 60601-1-2 and IEC 60601-1-2
- EN 60601-1-3 and IEC 60601-1-3
- EN 60601-2-28 and IEC 60601-2-28
- EN 60601-2-54 and IEC 60601-2-54

7.3 CE declaration

The device is fully in conformance with the EC Low Voltage Directive (2014/35/EU) and EC Directive of Electromagnetic Compatibility (2014/30/EU).

NOTICE:

Not all features or specifications described in this document may be available.

Mindray Animal Medical reserves the right to make changes in specifications and features shown herein, or discontinue the product at any time without notice or obligation. Contact your Representative for the most current information.

