Portability
Flexibility
Ease of Use
Affordability
Reliability
High Quality Images
Diversity of Use
The DynaRad HF-110A and Phantom portable units are being used worldwide in diverse settings such as home health care, rural hospitals, pediatric wards, private practices, sports facilities, correctional facilities, cruise ships, ski lodges, military applications and emergencies in the United States and World Wide.

**HF-110A Portable X-Ray System**

**Electrical Specifications**

- **Generator Type:** High frequency inverter, 2.5 kilowatt output.
- **kVp Range:** 50-100 kVp continuously adjustable, with 1 kVp resolution.
- **mA Range:** Fixed, 15 mA and 25 mA, constant independent of kVp or time settings.
- **Exposure Time:** 0.01 to 4.0 seconds in 96 increments.
- **Indicators:** Ready, x-ray on, mA selected, and digital display of kVp, mA and time.
- **Exposure Switch:** Detachable hand switch, two position, prep and expose.
- **X-Ray Tube:** Stationary anode, 100 kVp.
- **Filtration:** 2.7 mm of aluminum at 100 kVp (min.).
- **Target Material:** Tungsten.
- **Anode Capacity:** 30,000 heat storage capacity.
- **Focal Spot:** 1.0 mm (NEMA).
- **Beam Angle:** 12.5°
- **Collimator:** Collimated CP-100-24-C Certified manual.
- **Source:** 30 second timer.
- **Tape Measure:** For SID distance.
- **Inclinometer:** For angle measurement.

**Horizontal Storage Position**

- **System Dimensions:** Horizontal storage position (27 W, 52 L, 28 H (66 x 135 x 71 cm)).
- **Vertical Storage Position:** 52 H, 27 W, 26 L (135 x 66 x 71 cm).

**System Weight:**

- **Total System Net Weight:** 150 lbs. (68.2 kg)

**Component Weight:**

- **HF-110A Control Cabinet:** 32 lbs. (14.5 kg)
- **HF-110A-4 X-ray generator:** 50 lbs. (22.7 kg)
- **HF-110A - S Mobile stand:** 58 lbs. (26.4 kg)
- **HF-110A-D Cassette bin:** 10 lbs. (4.5 kg)

**Warranty:** 3 year limited

Complies with all CDH performance standards in effect at date of manufacture.

UL recognized for U.S. and Canada.

As we strive for constant improvement, specifications subject to change without notice. 

Made in U.S.A.

**Phantom Portable X-Ray System**

**Electrical Specifications**

- **Generator Type:** High frequency inverter, 1.25 kilowatt output.
- **kVp Range:** 50-100 kVp continuously adjustable, with 1 kVp resolution.
- **mA Range:** Fixed, 12.5 mA, constant independent of kVp or time settings.
- **Exposure Time:** 0.01 to 4.0 seconds in 96 increments.
- **Indicators:** Ready, x-ray on, digital display of kVp, mA and time.
- **Exposure Switch:** Detachable hand switch, two position, prep and expose.
- **X-Ray Tube:** Stationary anode, 100 kVp.
- **Filtration:** 2.7 mm of aluminum at 100 kVp (min.).
- **Target Material:** Tungsten.
- **Anode Capacity:** 25,000 heat storage capacity.
- **Focal Spot:** 1.0 mm (NEMA).
- **Beam Angle:** 15°
- **Collimator:** Collimated CP-100-24-C Certified manual.
- **Source:** 30 second timer.
- **Tape Measure:** For SID distance.
- **Inclinometer:** For angle measurement.

**Horizontal Storage Position**

- **System Dimensions:** Horizontal storage position (25 W, 52 L, 27 H (64 x 132 x 69 cm)).
- **Vertical Storage Position:** 52 H, 25 W, 27 L (132 x 64 x 69 cm).

**System Weight:**

- **Total System Net Weight:** 95 lbs. (43.2 kg)

**Component Weight:**

- **PH-150 C Control Cabinet:** 7 lbs. (3.2 kg)
- **PH-150 C X-ray generator:** 39 lbs. (17.7 kg)
- **PH - 150 - S Mobile stand:** 40 lbs. (18.2 kg)
- **PH-150 - D Cassette bin:** 9 lbs. (4.1 kg)

**Warranty:** 3 year limited

Complies with all CDH performance standards in effect at date of manufacture.

UL recognized for U.S. and Canada.

As we strive for constant improvement, specifications subject to change without notice.

Made in U.S.A.
Mingling the challenges that transcend the most demanding mobile radiology programs found in the U.S. and overseas required more than the lightweight construction and limited support stands typically offered in portable units. DynaRad/Del Medical Systems Group took on the challenge to design a robust frame construction to withstand heavy use. The units fold into a small, self-contained package that can be set up easily. The ability to fold the unit is extremely important to meet the need to reach non-ambulatory challenged patients out of the hospital environment. The user-friendly controls allow the operator to obtain diagnostic images under primitive conditions.

The HF-110A and Phantom portables are easily maneuverable around beds and other obstacles. The design criteria for the DynaRad portables called for extensive, effortless movement of the tube-arms to ease positioning in situations with limited space.

**HF-110A Portable X-Ray System**

**Electrical Specifications**

- **Generator Type:** High frequency inverter. 2.5 kilowatt output.
- **kVp Range:** 50-100 kVp continuously adjustable, with 1 kVp resolution.
- **mA Range:** Fixed. 15 mA and 25 mA. Constant independent of kVp or time settings.
- **Exposure Time:** 0.01 to 4.0 seconds in 96 increments.
- **Indicators:** Ready, x-ray on, mA selected, and digital displays of kVp, mAs and time.
- **Exposure Switch:** Detachable hand switch, two position, prep and expose.
- **X-Ray Tube:** Stationary anode. 100 kVp.
- **Filtration:** 1.0 mm (NEMA).

**System Dimensions:**

- **Horizontal storage position:** 27 W, 52 L, 28 H (66 x 135 x 71 cm).
- **Vertical storage position:** 52 H, 27 W, 26 L (135 x 66 x 71 cm).

**System Weight:**

Total System Net Weight 150 lbs. (68.2 kg)

**Component Weight:**

- HF-110A Control Cabinet
- 32 lbs. (14.5 kg)
- HF-110A X-ray generator
- 50 lbs. (22.7 kg)
- HF-110A - S Mobile stand
- 58 lbs. (26.4 kg)
- HF-110A-D Cassette bin
- 10 lbs. (4.5 kg)

**Mechanical Specifications**

- **Maximum Focal Spot to Floor:** 78. (198 cm)
- **Minimum Focal spot to Floor:** 15. (38 cm)
- **Horizontal Extension of Focal Spot:** 21. (53 cm)
- **Rotation About Horizontal Axis:** 360°
- **Rotation About Tube Axis:** 270°

**Warranty:**

3 year limited

Complies with all CSRFH performance standards in effect at date of manufacture. UL recognized for U.S. and Canada. As we strive for constant improvement, specifications subject to change without notice. Made in U.S.A.

**Phantom Portable X-Ray System**

**Electrical Specifications**

- **Generator Type:** High frequency inverter. 1.25 kilowatt output.
- **kVp Range:** 50-100 kVp continuously adjustable, with 1 kVp resolution.
- **mA Range:** Fixed. 12.5 mA. Constant independent of kVp or time settings.
- **Exposure Time:** 0.01 to 4.0 seconds in 96 increments.
- **Indicators:** Ready, x-ray on, digital display of kVp, mAs, and time.
- **Exposure Switch:** Detachable hand switch, two position, prep and expose.
- **X-Ray Tube:** Stationary anode. 100 kVp.
- **Filtration:** 2.7 mm of aluminum at 100 kVp.

**System Dimensions:**

- **Horizontal storage position:** 25 W, 52 L, 27 H (64 x 132 x 69 cm).
- **Vertical storage position:** 52 H, 25 W, 27 L (132 x 64 x 69 cm).

**System Weight:**

Total System Net Weight 95 lbs. (43.2 kg)

**Component Weight:**

- PH-150 Control Cabinet
- 7 lbs. (3.2 kg)
- PH-150 X-ray generator
- 39 lbs. (17.7 kg)
- PH - 150 - S Mobile stand
- 40 lbs. (18.2 kg)
- PH-150 - D Cassette bin
- 9 lbs. (4.1 kg)

**Mechanical Specifications**

- **Maximum Focal Spot to Floor:** 78. (198 cm)
- **Minimum Focal spot to Floor:** 15. (38 cm)
- **Horizontal Extension of Focal Spot:** 21. (53 cm)
- **Rotation About Horizontal Axis:** 360°
- **Rotation About Tube Axis:** 270°

**Warranty:**

3 year limited

Complies with all CSRFH performance standards in effect at date of manufacture. UL recognized for U.S. and Canada. As we strive for constant improvement, specifications subject to change without notice. Made in U.S.A.
HF-110A & Phantom

- Portability
- Flexibility
- Ease of Use
- Affordability
- Reliability
- High Quality Images
- Diversity of Use