

# Horizon<sup>®</sup>



**Horizon<sup>®</sup> QDR Series X-Ray Device**  
**Site Preparation Guide**  
MAN-12218 Revision 001

**HOLOGIC<sup>®</sup>**

# Horizon® QDR Series X-Ray Device Site Preparation Guide

Part Number MAN-12218

Revision 001

October 2025

**Caution:** Federal (U.S.A.) law restricts this device to sale by or on the order of a physician (or properly licensed practitioner).

## Product Support

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## Introduction

This guide provides information for preparing the site for the delivery and installation of a Horizon® QDR Series X-Ray device. The installation of an X-Ray device at any site requires serious consideration regarding space and site planning. A correctly prepared site provides a comfortable working environment for the operator with proper access for the patient. If you have specific questions or concerns, please contact Hologic Sales Administration Department at 1-800-321-4659 or [SkeletalHealth.Support@hologic.com](mailto:SkeletalHealth.Support@hologic.com). In Europe, South America, or Asia, contact your local dealer or distributor.

## Room Requirements

The following figures show the minimum room dimensions for a QDR System:

- Figure 1: Horizon A
- Figure 2: Horizon W, Horizon Wi
- Figure 3: Horizon C, Horizon Ci

A larger room and wider doorway, however, simplifies installation, use, and service. You can fit a QDR System through a 76 cm (30 in.) wide doorway. A hallway at least 115 cm (45 in.) wide simplifies and speeds up installation.



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**Note:**

The minimum room dimensions assume there are no obstructions or outcroppings within the room. It is the customer's responsibility to remove obstructions or outcroppings prior to the install date.

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The QDR Series operator's console is connected to the scanner table by a 4.5 m (15 ft) cable. Since the leakage and scatter radiation levels are low, you can place the operator's console in the same room with the QDR Series scanner. Additional shielding should not be required; however, state regulations may vary. Please discuss your particular state requirements with your radiation facility safety officer.



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**Note:**

When planning room layout, bear in mind that the signal and console power cables come out of the left rear corner of the scanner unit (facing the scanner) and plug into the operator's console.

Optional 9 m (30 ft) or 14 m (45 ft) signal/console power cables are available by special order — at no additional charge.

The system power cable comes out of the left rear corner of the scanner unit and plugs into a wall outlet. The length is 4.5 m (15 ft). No other length is available.

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Figure 1 provides the weight, area, and floor loading specifications for the Horizon series.

Table 1: Horizon Series Weight, Area, and Floor Loading Specifications

|                     | Horizon C,<br>Horizon Ci                            | Horizon W,<br>Horizon Wi                            | Horizon A                                           |
|---------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| Equipment Weight    | 311 kg (686 lb)                                     | 311 kg (686 lb)                                     | 347 kg (765 lb)                                     |
| Max. Patient Weight | 204 kg (450 lb)                                     | 204 kg (450 lb)                                     | 204 kg (450 lb)                                     |
| Total Weight        | 515 kg (1136 lb)                                    | 515 kg (1136 lb)                                    | 551 kg (1215 lb)                                    |
| Area                | 1.9 m x 1.1 m<br>(6.3 ft x 3.5 ft)                  | 1.9 m x 1.1 m<br>(6.3 ft x 3.5 ft)                  | 1.9 m x 1.1 m<br>(6.3 ft x 3.5 ft)                  |
| Floor Loading       | 246 kg/m <sup>2</sup><br>(51.5 lb/ft <sup>2</sup> ) | 246 kg/m <sup>2</sup><br>(51.5 lb/ft <sup>2</sup> ) | 264 kg/m <sup>2</sup><br>(55.1 lb/ft <sup>2</sup> ) |

The floor must be level to within 3 cm across 2 m (1 in. across 6 ft). If carpeting is beneath the system, it should be low pile and anti-static.

If possible, allow clearance of at least a 5 cm (2 in.) plus the maximum tabletop extension for the -A model between the QDR System outer surfaces and the walls.

## Temperature/Humidity Control

You can operate your QDR System at the following temperature and humidity levels:

Temperature: 15°C – 32°C (59°F – 90°F)

Humidity: 20% – 80% relative humidity, non-condensing

## Heat Load

The Horizon A will add approximately 1500 watts (5120 BTU/hour) to the air conditioning load of the room in which it is installed.

The Horizon W, Wi, C and Ci will add approximately 1000 watts (3400 BTU/ hour) to the air conditioning load of the room in which it is installed.

## Power Requirements

The power requirements for all models of the QDR System are detailed in Table 2.

*Table 2: QDR System Power Requirements (All Models)*

| Voltage (volts)     | Frequency (Hz) | Current (Amperes) | Maximum<br>Apparent<br>Line Resistance<br>(ohms) |
|---------------------|----------------|-------------------|--------------------------------------------------|
| 100                 | 50/60          | 16.0              | 0.32                                             |
| 120 (North America) | 50/60          | 14.0              | 0.32                                             |
| 230                 | 50/60          | 8.0               | 1.28                                             |



**Note:**

A dedicated, single-phase, grounded, electrical circuit is required for all models. It is the customer's responsibility to ensure this outlet is available prior to the install date. For customers in the United States of America and Canada, the power receptacle must be fed by an HACR or UL 489 listed circuit breaker/disconnect.

The system power cable comes out of the left rear corner of the scanner unit and plugs into a wall outlet. The length is 4.5m (15 ft). No other length is available.



**Note:**

To address inrush current, customers outside of the United States of America and Canada, may utilize an off-the-shelf inrush current limiter **which meets the specifications provided below** as part of their room site planning. The selected limiter must be CE certified. The table below serves as a reference for selecting a suitable inrush current limiter. Furthermore, it is imperative that the inrush current limiter complies with all relevant regional standards. **The inrush current limiter must be installed/handled externally, as no system modifications are permitted. Failure to follow this guidance could result in damage to the Horizon system.**

Table 3: Inrush Current Limiter

|                          |         |        |                                                                                                     |
|--------------------------|---------|--------|-----------------------------------------------------------------------------------------------------|
| Operating Voltage (VAC)  | 100-240 |        | Choose the rating based on the operating region                                                     |
| Operating Frequency (Hz) | 50/60   |        |                                                                                                     |
|                          | (VAC)   | (A)min | <i>Choose an inrush limiter with a minimum current rating for the respective operating voltage.</i> |
|                          | 100     | 24     |                                                                                                     |
|                          | 120     | 21     |                                                                                                     |
|                          | 200     | 12     |                                                                                                     |
|                          | 230     | 12     |                                                                                                     |
| Certifications           | CE      |        | Meet regional EMC and safety regulations                                                            |

## **Data Connection**

There must be an active 10/100/1000 Ethernet connection within 1.8 m (6 ft) of the computer, without crossing doors or aisles. The connection should have access to the internet to allow activation of Microsoft products and to allow for future enhancements to Hologic service offerings.

## **Pre-Installation Questionnaire**

A Pre-Installation Questionnaire must be completed and returned to Hologic before system delivery and installation can be scheduled.

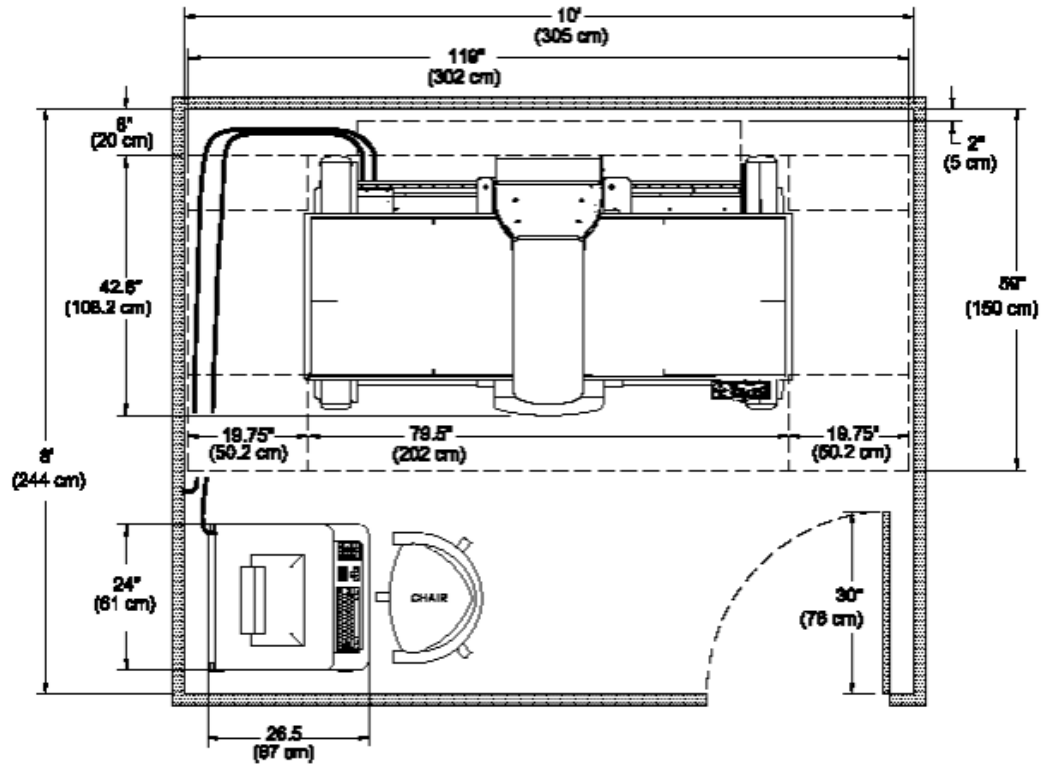


Figure 1: Horizon A



**Note:**

For proper operation of the Horizon A, the room dimensions must be at least 10 ft (3.05 m) by 8 ft (2.44 m).

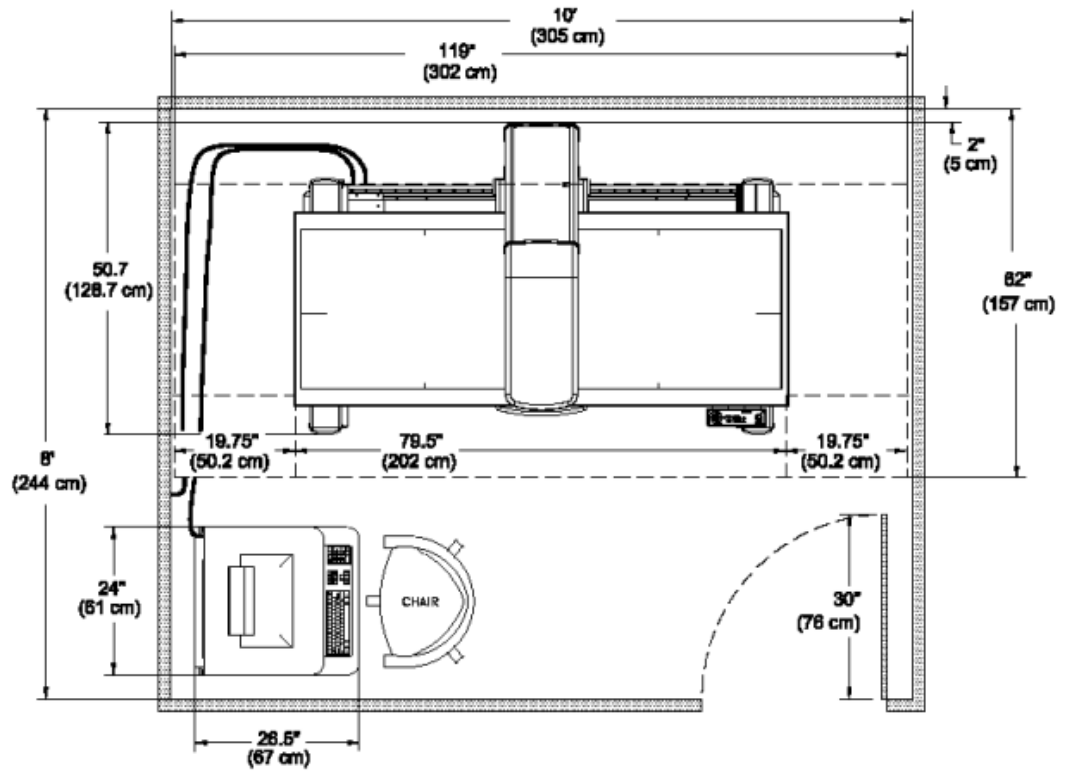


Figure 2: Horizon W, Horizon Wi



**Note:**

For proper operation of the Horizon W or Wi the room dimensions must be at least 10 ft (3.05 m) by 8 ft (2.44 m).

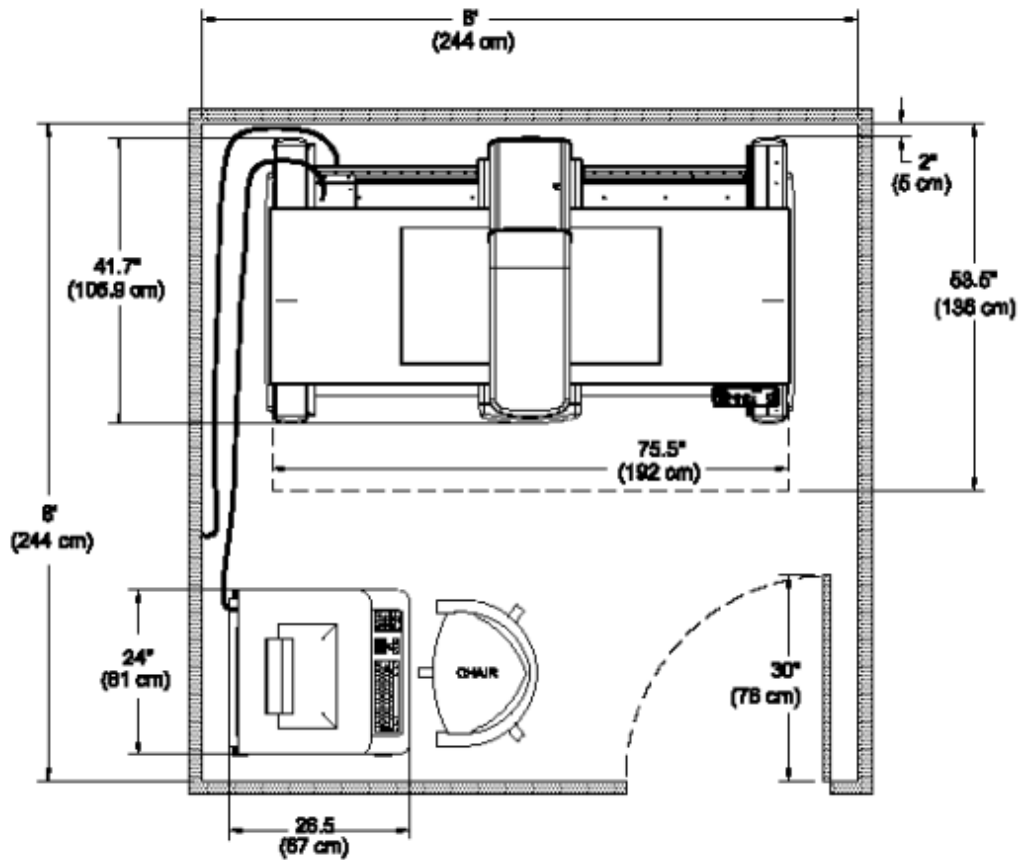


Figure 3: Horizon C, Horizon Ci



**Note:**

For proper operation of the Horizon C or Ci the room dimensions must be at least 8 ft (2.44 m) by 8 ft (2.44 m).