

TECHNICAL INFO

Products: CRANEX® Novus

Subject: Pre-Installation Requirements

Description

These instructions are provided for service/marketing personnel who wish to confirm that the site where CRANEX Novus is to be installed is suitable. This same information is found in the CRANEX Novus Installation Manual.

Requirements

General Requirements

When installing the unit always observe local and national safety regulation concerning the installation and use of dental x-ray equipment.

Failure to install the unit in an approved location according to these installation instructions may cause the device to be dangerous to both patient and operator.

Be careful when working on the unit when the covers have been removed. Some mechanical parts have sharp edges that can cause injuries if mishandled. Some electric components are high voltage and can be lethal if touched. Whenever possible disconnect the unit from the main power supply when working on it with the covers off.

If the CRANEX Novus is to be used with a 3rd party imaging application software, not produced by SOREDEX, the 3rd party imaging software must comply with all applicable local laws and regulations on patient information software. This includes, for example, the Medical Device Directive 93/42/EEC and / or the FDA.

Do not install the unit in an environment where corrosive or explosive vapors are present.

The Unit

The room in which the unit is to be installed, and the position from where the user will take exposures, must be correctly shielded from the radiation that is generated when the unit is operated. Since radiation safety requirements vary from country to country and state to state, it is the responsibility of the installer to ensure that all safety regulations are met.

The unit must be connected to its own dedicated power supply, 230 VAC or 115 VAC ($\pm 10\%$) depending on the voltage rating on the type label. Extension cords **MUST NOT** be used with the unit.

The supplied power cord is 98" (2.5 m) in length, and connects at the rear lower right of the column about 20" (50 mm) above the floor.

The supplied Category 6 (1 GB/s) Ethernet cable is 19.5' (6.0 m) in length and connects at the rear lower left of the column about 20" (50 mm) above the floor.

The unit is supplied in one carton on a wooden skid:

Length	Width	Height
74 in (187 cm)	31 in (78 cm)	39 in (100 cm)

The packaged unit weighs 309 lbs. (140 kg) • The installed unit weighs 220 lbs. (100 kg)

Make sure that the floor in the room where the unit is to be used can support the weight of the unit. Also make sure that the wall to which the unit is attached and the fixing hardware used to attach the unit to the wall can withstand a continuous pull-out force of at least 660 lbs. (300 kg).

If the area where the unit is to be installed is subject to earthquakes, the unit must be permanently attached to the wall, and the base of the column must be permanently attached to the floor. The MINIMUM diameter of the fixing hardware (NOT SUPPLIED) is 5/16 in (8 mm). The type and length of hardware must be suitable for the wall and the floor to which the unit will be fixed.

Make sure that there will be enough space at the front and sides of the unit to allow patient entry and exit. Patients using wheelchairs will require more space than standing patients.

Make sure that the unit is positioned so that the operator, when protected from radiation, can see and hear the patient during an exposure.

NOTE: If the wall is made of thin material, you may have to use a reinforcing backing plate on the rear of the wall to hold the securing screws, bolts, or nuts.

The PC

The PC that is to be used with the CRANEX Novus must be installed in a location that meets all local and national safety requirements with regards the connection of a PC to an x-ray device. The connection of the unit to the PC must meet EN60601-1 requirements. The CRANEX Novus connects to the PC with a 177" (450 cm) long CAT 5e network cable (included with unit).

The use of ACCESSORY equipment not complying with the equivalent safety requirements of this equipment may lead to a reduced level of safety of the resulting system. Consideration relating to the choice shall include:

- Use of the accessory in the PATIENT VICINITY
- Evidence that the safety certification of the ACCESSORY has been performed in accordance with the appropriate IEC 601-1 and/or IEC 601-1-1 harmonized national standard.

Minimum computer requirements:

OPERATING SYSTEM

- Windows 8 Professional (32 and 64 bit)
- Windows 7 Professional (32 bit or 64 bit - SP1);
- Windows XP Professional (32 bit - SP3)

CPU

- 2.0 Ghz Intel Dual Core Processor or better; or AMD equivalent

RAM

- 2 GB (32 bit) or 3 GB (64 bit) [3 GB (32 bit) or 4 GB (64 bit) recommended]

DISK DRIVE

- 20 GB available space

DVD/CD-ROM DRIVE

- DVD +/- RW recommended

DISPLAY ADAPTER

- 128 MB or better (integrated “on board” graphics or dedicated GPU)

MOTHER BOARD

- Must have one available PCI slot, full or half height

NETWORK CONNECTION

- 10/100/1000 Mbit/s Ethernet NIC

MONITOR

- 1024 x 768, 24-bit Tru Color, 17” (1280 x 1024, 19” or 22” flat panel recommended)

HUMAN INTERFACE DEVICES

- USB keyboard and 2-button mouse

Installation Tools, Setup Tools and Installation Hardware

The following tools and hardware are required to install and set up the unit:

NOTE: THESE ITEMS ARE NOT INCLUDED WITH THE UNIT, UNLESS OTHERWISE STATED

Hardware

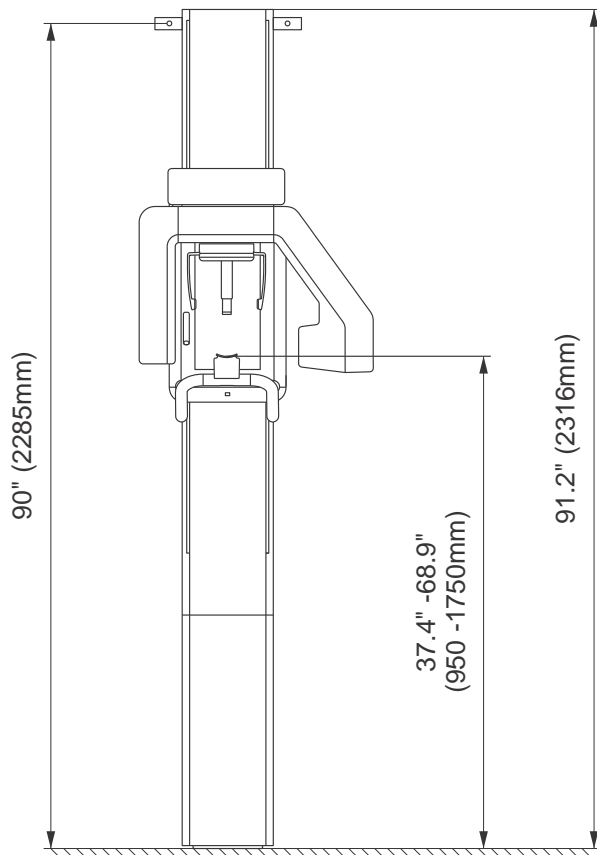
- Minimum 5/16 in (8mm) fixing hardware (4pcs) for attaching the wall bracket to the wall and the base of the column to the floor.








Standard Tools

- Electric drill
- Spanners (wrenches) 7, 10, and 17 mm
- Allen key set (Hexagon socket wrenches) 1.5 – 8 mm, including a 12 cm long (min) 3 mm Allen
- Flat blade screwdriver
- Torx screwdrivers T20, T25, and T30
- Spirit level
- Pliers and wire cutters
- Scissors/Knife
- Transportation wheels - part number 6904270 (included with unit)

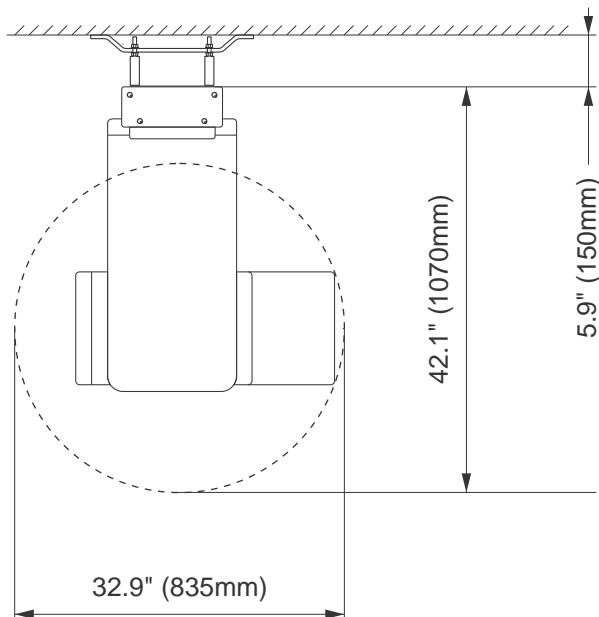
Special Tools & Optional

- Calibration Filter - part number 6904270



NEMA 5-15R 120V – 15A 1440VA Equipment Load 	NEMA 5-20R 120V – 20A 1920VA Equipment Load   T-Slot
NEMA 6-15R 208/240V – 15A 2496 VA Equipment Load 	LEGEND  Ground  Neutral  Hot/Line

All receptacles and plugs should be UL listed, and either commercial grade or hospital grade (preferred)



Please note: All measurements from the wall shown are minimum distances. The mounting rods on the wall brackets have an additional 3/4 in (20mm) of threaded length to accommodate walls that are not plumb.