Technical bulletin

OP300 Maxio Install Checklist

Please complete and review this document in its entirety. Return a copy, along with a photocopy of the FDA 2579 form, to Instrumentarium/Soredex. Please also keep a copy for yourself.

	☐ OK	Description – Basic Install	Installation Manual Reference
1	☐ OK	**SETTING UP THE OP300 MAXIO** Unpack the OP300 Maxio X-ray unit, all parts and accessories. See Page Seven of this guide for unit dimensions, mounting height, etc.	Section 5
2	☐ OK	Remove the Two side covers on the column; attach the mounting bracket to the back of the column. (**Bracket height is 51.1 inches**). If the remote exposure switch is going to be used it may be easier to mount into column before anchoring column to the wall. **Do not anchor the column to the floor at this point. Wait until Step #7.** **The wall anchor hardware is NOT provided.** Make sure adjustment for wall mount bracket is in the middle of its travel to allow for the bracket to be moved if needed. Mount column to the wall and also verify that it is level on the wall.	Section 5
3	☐ OK	Unpack the Pan head. ***IMPORTANT: DO NOT CUT STRAP AROUND THE FOAM OR CUT THE FOAM**. Slide the Panoramic Head on to the column, Install the two alignment guide pins. These are located in the LCD display cardboard box.	Section 5.2
4	☐ OK	Attach the remaining hardware in the Pan head (Four screws total)	Section 5.3
5	☐ OK	Remove the strap, packing foam, wood platform and bar that the wood platform is attached too.	Section 5.3
6	☐ OK	**Note: There isn't a stopper plate that has to get moved on the Maxio units in the rotating head. Just remove the shipping bracket in the overhead and rotate the head ¼ turn clockwise.**	Section 5.3
7	☐ OK	Check the level of the pan head and the column, there are Two bubble level indicators in the Pan head. When the pan head is level then check the column. Once all of this is level then secure the rest of the column at the wall and base.	Section 5.4

8	☐ **OK**	Connect all plugs and network cables (There are Four network cables that go into the network switch in the overhead of the pan.)	Section 5.5
9	☐ **OK**	Attach the touch screen display (GUI)	Section 5.6
10	☐ **OK**	***For units with the Ceph attachment, unpack all hardware. If this is not with the unit go to step #14.**	Section 5.9
11	☐ **OK**	Attach Ceph bracket, arm and head	Section 5.9
12	☐ **OK**	Check level of the Ceph head	Section 5.9
13	☐ **OK**	Connect all cables and network cable (One network cable goes into the network switch in the pan head from the Ceph)	Section 5.9
14	☐ **OK**	**CONNECTING THE UNIT TO THE MAINS POWER:** **(Unit is delivered from the factory with 230 VAC)** Before powering the unit on, check that the correct power configuration jumper is installed. This is located under the chin rest at the base of the carriage attached to the column. Remove the cover under the handles then remove the metal cover (Four screws hold this cover in place). Select the correct jumper for 220 or 110 VAC. The Two fuses by the power switch need to be changed. 110 VAC uses 15 Amp fuses, 220 VAC uses 10 map fuses. These fuses come with the unit in the accessory box.	Section 6.4
15	☐ **OK**	Power on the OP300. Check that the display is functioning and also that the unit initializes.	
16	☐ **OK**	**PREPARING THE PC:** Plug in the **GREEN USB dongle key** into a USB port on Acquistion computer. The dongle key only comes with the 3D version of the OP300 and can be found in the accessory box. **NOTE: *Newer units starting in 2015 do not require the key anymore*.** The Acquisition PC includes 2 Network Cards: Plug the Cat6 cable from the base of the column into the on-board network card. The 2nd Network card in the PC should be used for the office network.	Section 6.4.1

		There may be a spare graphics card included, this is not needed as the Dell PC has a graphics card pre-installed. The spare card can be used on any other PC at the office. The Dell 3D capture PC will have all of the software and driver files in C:/palodex folder. If needed go to the following link to get the same files: http://www.thetechgods.net/service/twains/instrumentarium/	
17	☐ OK	**SOFTWARE INSTALLATION** Power on the PC, TWAIN is installed on the PC, if needed, install the version 7.2 TWAIN (This is also in the accessory box) The registration code for the TWAIN is on the plastic case that has the TWAIN CD. This comes with units from 2013 to present. If it is needed, call 800-558-6120. License the TWAIN if internet is present. **The TWAIN can also run in a trial mode for 30 days if the office does not have internet access.**	
18	☐ OK	The Dell PC has the drivers installed with the Cliniview and TWAIN. If there is a newer version than what is on the PC, Install that driver that comes with the unit or download from the link below or go to C:/Palodex Group folder. http://www.thetechgods.net/service/drivers/instrumentarium/OP300%20CBCT%20Driver/ **Current version is 14.10 for the OP300 Maxio unit**	Section 6.4.1
19	☐ OK	***For 3D units only,** Install the **Invivo software**. There will be the latest version in C:\Palodex group folder (Current version is 5.3.4) Codes for registration are either on a label or on the desktop in a text file. Use the Perpetual code to license the Invivo software. No CD is included for software.	
20	☐ OK	CV10 will be pre-installed on the Dell T3610: **How to License CV10:** Open Cv10- Click on Active workstation License Click Online Activation Enter the software activation code -**USE WORKSTATION CODE** from Clinivew CD cover DO NOT select NETWORK USER.	Section 6.4.2

		Once you have entered the Activation code you can then Activate Cliniview Network License by going to: ALL PROGRAMS/ Instrumentarium, License Server/ License manager, Activate License ON LINE, enter **NETWORK USER CODE** on the CD Case that has CV10 software. ****DataGabber software** can be installed at this point if bridging to a Dental Management software.** **CONFIGURING COMMUNICATION LINK TO THE PC WITH AN IP ADDRESS** 1. Open up CV10. 2. Configure the IP address in the CBCT driver by holding down ctrl key and then right clicking on the driver icon in system tray, click driver setup. 3. Enter in the IP address 10.208.6.101 and then click send to scanner. The NIC card that the PAN is plugged into should be set to 10.208.6.99, make sure the software goes ready for calibrations.	
21	☐ **OK**	**S2 TERMINAL SET UP** For the calibrations to be performed, double-click the OpenS2 icon on the desktop and put in the unit's IP address which is 10.208.6.101, type in xr, press enter (This should show normal mode. if not, type in xr again and press enter so it shows normal). Open CV10, select a patient and get the software ready to capture. If the S2 icon is not on the desktop follow this procedure: A. Open Command prompt B. Type in cd c:\s2, press enter C. Type in s2terminal 10.208.6.101, press enter D. Open up the CV10 software and also open a patient and then click the yellow icon to get the software ready to capture. **Note:** If this is a 2D only Instrumentarium does not provide a PC with the OP300 unit. Download the s2terminal from http://www.thetechgods.net/service/Firmware/Instrumentarium/OP300/1.24firmware.zip. Unzip the contents of the folder, copy this into the C drive and rename the folder to s2.	Section 7.4.
22	☐ **OK**	Press the wrench icon in touch screen on the OP300 then press the service tab. Calibration screen opens.	

23	☐ **OK**	Perform all calibrations in the following order, this procedure will take about 1 to 1.5 hrs. (Pan QC is not needed): 1. Preheat (Hold down the exp. button, this may take 5-10 min.) 2. mA (Hold down the exp. Button, this may take 5-10 min.) 3. 3D Col 4. 3D Beam Size 5. Pan Col 6. Pan Geom 7. Pan Lasers 8. Pan Pix 9. 3D Geom Std Res 10. 3D Geom Hi Res 11. 3D Lasers 12. 3D Pix 3D 3D QC	Section 7.5
24	☐ **OK**	After the Pan and CBCT calibrations are done, start the Ceph calibrations in the following order (Ceph QC is not needed): 1. Ceph Pri Col 2. Ceph Rot Angle 3. Ceph Mechanical Adjustment 4. Ceph Sec Col 5. Ceph Lasers 6. Ceph Pix **7. Ear rod holder alignment (Section 8.2.9)**	Section 8.2
25	☐ **OK**	8. When call calibrations are complete, close S2terminal. Take a normal Pan, 3D scan and Ceph.	

Notices:

- To allow for adequate time for training please schedule training for a day following the scheduled hardware installation/upgrade of your digital pan or pan/ceph system.
- All users of the digital pan or pan/ceph system and clinicians involved in extraoral radiography must be present for the training.
- A minimum of three hours must be set aside without patients for digital X-ray training.
- Instrumentarium Dental Inc. and/or its authorized dealer/installer are responsible for installation of only Instrumentarium Dental Inc. provided hardware and software supplied with your system.
- Neither Instrumentarium Dental Inc., nor its authorized dealer/installer, will install software onto the network, other than the software supplied with your system necessary to acquire an image.
- Making images available throughout your network is the responsibility of an IT admin (network administrator) who is knowledgeable and certified in configuring Microsoft operating systems and networks, and who is familiar with *your* network. Your IT admin is required to be on site the day of install with access to the domain admin account and local admin account if on a domain, and the local admin if on a workgroup.
- Mac OS is not supported.
- Apple Boot Camp is supported for viewing stations (not the capture computer) only if it is supported by an IT admin versed in both Windows and Mac OS.
- The software database must be backed up regularly with an appropriate backup system. It is highly recommended that you use a suitable system where the backup media can easily be removed for off-site storage.

Signature:

Installer: _____ **Date:** _____

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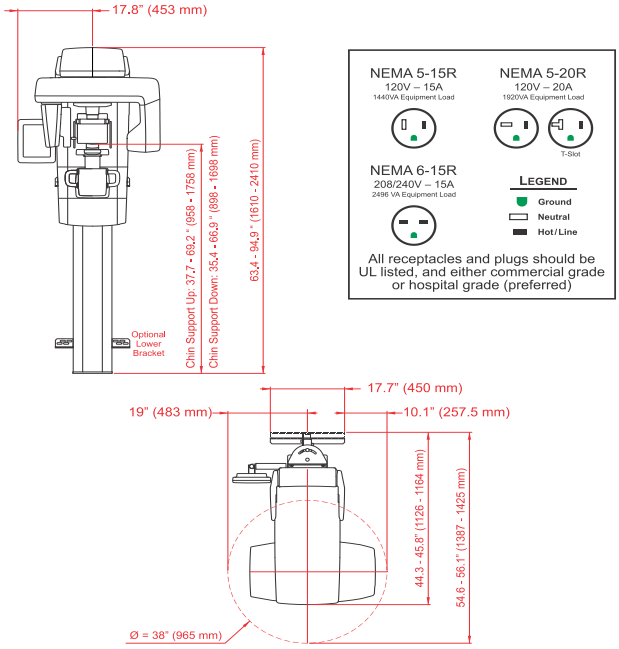
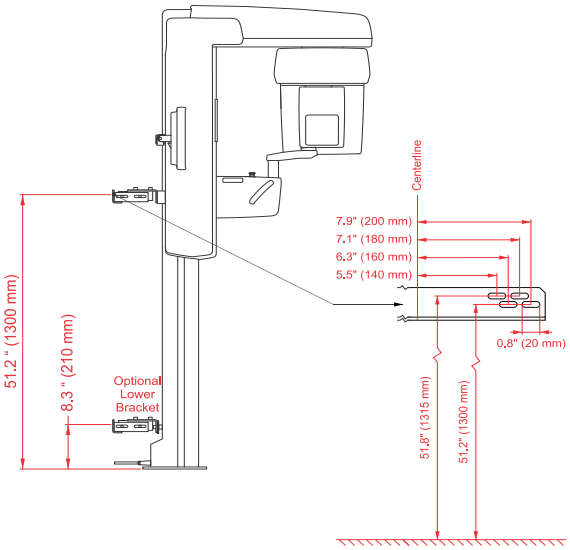
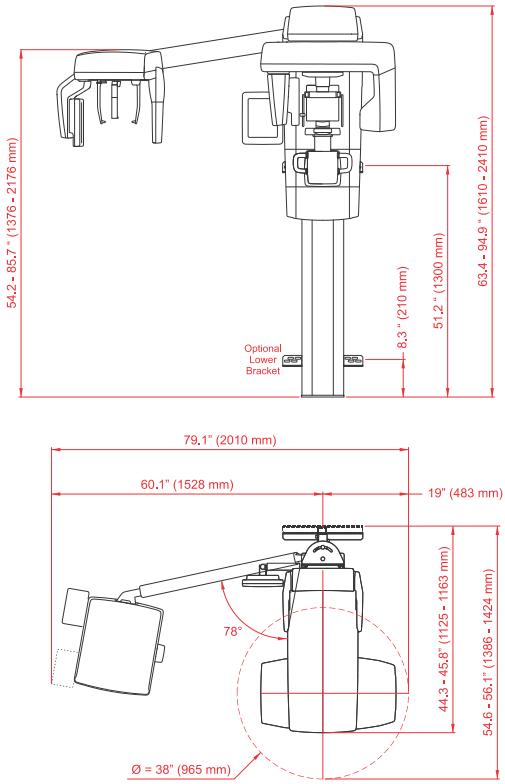
Orthopantomograph® OP300 Pan & Pan/3D
Pre-Install Specifications and Dimensions



Orthopantomograph® OP300 Pan & Pan/3D
Orthopantomograph® OP300 Pan/Ceph & Pan/Ceph/3D
Pre-Install Specifications and Dimensions



Orthopantomograph® OP300 Pan/Ceph & Pan/Ceph/3D
Pre-Install Specifications and Dimensions



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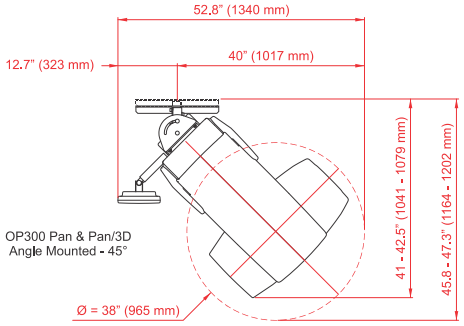

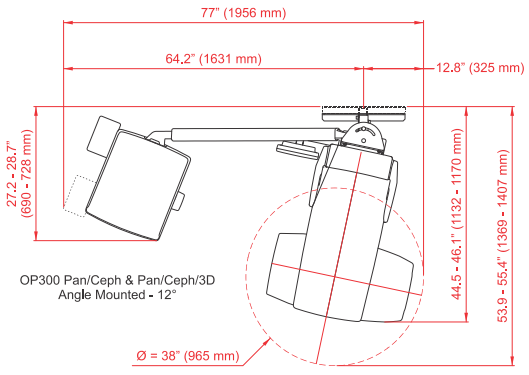

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