3D Imaging:

Version 8.2 April 2011

3D IMAGING SITE SURVEY FORM

To make sure that your planned installation of the Sirona 3D system progresses as smoothly as possible, we ask you to fill out the following pages thoroughly. Please have the survey returned at least 2 weeks prior to the requested install date. This will allow us time to address any concerns that arise after review and to schedule a technician to be onsite, if needed.

Please have your IT specialist contact us with the computer specifications or questions. We also require your IT person to be available “on-site” the day of software installation/networking.

Please FULLY complete this survey and submit it to the 3D Imaging Support Team by E-mail: 3D.Support@sirona.com or fax 1-888-297-8631.
If you have any questions about this survey please call 1-800-659-5977 then choose opt2 for Galileos, opt3 for XG3D and XG3D Upgrades.

This survey was completed by______________Date_________Phone_______

Please leave a copy of this site survey with the Dentist/Business owner!

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3D Imaging Site Survey Verification Form Outline

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# 3D Imaging:

## 1. **General Information** (can be used for the shielding survey application)

<table>
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<th>Customer information:</th>
<th>Vendor information</th>
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<tbody>
<tr>
<td>Facility or business name:</td>
<td>Dental Dealer:</td>
</tr>
<tr>
<td>Doctors name:</td>
<td>City:</td>
</tr>
<tr>
<td>Street address:</td>
<td>State:</td>
</tr>
<tr>
<td>City:</td>
<td>Vendor Contact Name:</td>
</tr>
<tr>
<td>State:</td>
<td>Phone Number:</td>
</tr>
<tr>
<td>Zip:</td>
<td>E-mail:</td>
</tr>
<tr>
<td>Phone number:</td>
<td></td>
</tr>
<tr>
<td>E-mail address:</td>
<td>Diagnostic Imaging Unit Information:</td>
</tr>
<tr>
<td>Office Fax Number:</td>
<td>Manufacturer:</td>
</tr>
<tr>
<td>Mailing address if different than facility:</td>
<td>Sirona Dental Systems</td>
</tr>
<tr>
<td>Installation Type:</td>
<td>Name/Type: XG3D 60-90 kV; max: 3-16 mA;</td>
</tr>
<tr>
<td></td>
<td>Name/Type: Galileos 3D 85kv; max 7mA</td>
</tr>
<tr>
<td>Contact name in office:</td>
<td>Sirona Sales Representative:</td>
</tr>
<tr>
<td>IT Contact:</td>
<td>Projected installation date:</td>
</tr>
<tr>
<td>Name:</td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
</tr>
<tr>
<td>E-Mail:</td>
<td></td>
</tr>
</tbody>
</table>

## 2. **Shielding & Radiation Survey**

We strongly advise that you become familiar with state regulations outlining your responsibilities for radiation protection and safety by consulting your state department of public health, **bureau of radiation protection/dental section**.

Sirona Dental Systems highly recommends a Shielding Plan Survey be performed by a radiation physicist. Sirona has used Pro Physics in past Galileos installations. If a shielding plan or radiation survey is required in your state or you would like to have one performed, please contact Pro Physics directly.

**ProPhysics Innovations, Inc.**  
400 Dominion Drive, Suite 109  
Morrisville, NC 27560

Tool Free (800) 835-3615  ●  Phone: (919) 465-2545  ●  Fax: (919) 465-2544  
admin@prophysics.com
3D Imaging:

3. Please mark the unit to be installed or upgraded:

   New: Galileos          ORTHOPHOS XG 3D

   Upgrade: ORTHOPHOS XG Plus ; ORTHOPHOS XG 5 ; ORTHOPHOS XG3D Ready

4. Mechanical Specifications: (see dimensional drawings on last page)
   Mounting options:

      Unit will be bolted to the wall with 1 wall bracket 16 1/2" wide.
      The wall needs to be reinforced to hold 160 pounds on each of the two wall screws at a height of 76 3/4 " from floor, incorporated during construction of wall or use a wooden board over multiple studs.
      There are no specific requirements for the floor screws.
      
      Note: If your wall is already reinforced for an existing pan, make sure that the location of the reinforcement fits the new location.

   2. Mount with 2 wall brackets: If no floor bolts can be used, a second wall bracket can be purchased and mounted at a specific height from floor at 15 7/8" to assure unit stability. (as described in the standard mount instructions)
      * Second wall bracket must be ordered from Sirona.
      Part # 5986216 (standard bracket) or # 6216191 (short bracket)

   3. Floor mounted stand: If a floor mounted stand is desired, it is required to use the longer wall bracket to reduce any vibrations: 78" height from floor. No specific strength/weight requirements.
      * Order deeper bracket #5986216 for stabilizing to wall.

   The office will use option .................................................................

   Reinforcement of the wall has to be finished before the installation day!

5. Electrical Specifications:

3D Imaging Systems Require:
220 V, 20 Amp  dedicated circuit, (2 live, 1 ground wire) hardwired power supply is needed for the unit. The power supply must be installed before the installation day. For esthetic reasons the power supply outlet box should be located behind the Column.
A second protective ground wire (on unit) will have to be attached to a feasible PE connection in the available power outlet.

220V Power is available already  

Media Converter Requires:
A standard 110 V outlet is required if the media converter is located at the unit. If the Media C is used at the unit, the installation will look best when mounted behind the Column.

110V Power outlet is available  


6. **Network Specifications:**

All network components that will be involved in 3D imaging are **required** to be working at **1Gbit/sec**. **No wireless networks are supported at this time!**

- **Switch:** 1Gbit switch (10/ 100/ 1000Mbit)
- **Network Cables:** Cat 5e,6 or higher
- **Network Cards:** 1Gbit
- **Internet Access:** High Speed Cable/DSL or better for WebEx Support

**Model of Network switch used:** .................

**New Installs Only:** The 3D Imaging System will come with a **Media Converter** that requires its own network drop on the network switch.

For the the Galileos system, Sirona will supply RCU (**Re**Constr**uct**ion **Un**it) which does the calculation of the images. This system will require a network drop to connect to your network.

**Your IT-Specialist/Administrator must be “on site” for the software installation.**

The network must be up and running the day before the installation.

7. **Server Requirements:**

Sidexis software requires a computer that will host the Microsoft SQL 2005 EXPRESS server (included on Sidexis XG CD).

**Hardware:**

- **Processor:** Pentium Dual Core, 2 GHz Speed or better
- **RAM:** 2 GB RAM or higher (4 GB RAM recommended)
- **Graphic card:** 32MB or higher
- **Network Card:** 1GB Network Card

**Software:** (for SQL Server 2005 Express, not Sidexis)


Windows XP

Windows 7

Note: A server with older or less processing power may cause performance related issues during the accessing/ loading/saving of images.

**SQL Server 2008** (full or EXPRESS) is supported but will need to be set up manually):

**We have an Existing SQL 2000/2005/2008 server and want to add Sidexis Database** □ YES □ NO

**Do you have a previous version SIDEXIS installed, which needs to updated** □ YES □ NO

- If YES, what is the Version:________
8. **Storage Recommendations:**

The Storage of the 3D image requires a certain amount of hard drive space (on server or network storage device (NAS)) that will depend on;
(a) the number of scans taken,
(b) type of data stored (other X-ray devices and applications)
(c) how long you want/ can use your current storage solution.

The storage requirements will be about 250MB per image if you store only the final 3D Volume and some views. If all data is saved, including the RAW data, plan for approx. 450MByte per image.

**Note:**
For optimal performance Sirona recommends to add additional hard drives to your server. An external e-SATA connected storage device is also a good choice for external storage. NAS devices are an inexpensive way to extend storage but we have noticed some limitations, slowness or even no functionality with some devices. Because of the big variance in these devices, it is not possible for SIRONA to recommend any particular brand or model over the other.

We highly recommend using a RAID system to protect you from data loss due to hardware failure.

**Example of calculation for recommend storage: (2D images can be neglected)**

<table>
<thead>
<tr>
<th>3D Images per year</th>
<th>Store only final volume</th>
<th>Store all data</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>40 GB/year</td>
<td>88 GB/year</td>
</tr>
<tr>
<td>500</td>
<td>90 GB/year</td>
<td>220 GB/year</td>
</tr>
<tr>
<td>1000</td>
<td>180 GB/year</td>
<td>440 GB/year</td>
</tr>
</tbody>
</table>

How many scan will be taken?:__________ How much storage available?:__________

9. **Backup System:**

To protect your data, a reliable Backup solution is mandatory. This should be in accordance to your expected data volume.

Note: RAID is **NOT** a replacement for a backup system as it will not protect your data from all hardware failures, user errors, fire, water or electrical storm damage.

Sirona **cannot be held responsible for any loss of data, regardless of reason!**

A Backup System is in place: ☐ YES ☐ NO
3D Imaging:

10. **3D Workstation Requirements:**

**Hardware:**
- Processor: Pentium Quad Core, 2 GHz Speed or better
- RAM: 4 GB RAM or higher
- Graphic card: 512MB or higher (memory on graphic card only / no shared memory)
- Network Card: 1GB Network Card
- Monitor: A quality monitor is key to good analysis of X-Ray images. We recommend a 24 inch monitor with brightness and contrast controls. Monitors with high brightness values have been shown to display better images. A dimmed room is recommended, too.

**Software:** Windows XP Pro Service Pack 3 or higher (32bit only)
- Windows 7 Professional (32bit and 64 bit), Windows 7 Ultimate (64 bit), Vista Prof. 32bit.
The listed Microsoft Operating System have been tested and are approved for Sidexis/Galaxis.

**Additional Hardware:**
- DVD/CD ROM R/W Drive to burn DICOM RM and Wrap&Go CD’s.
- No special CD writing software is required or needs to be purchased.

**How many 3D workstations do you currently have?:**........
**Are you adding stations?**........

Please provide a list of PCs that will be used for 3D imaging (use extra sheet if necessary):

<table>
<thead>
<tr>
<th>Location/Name</th>
<th>Operation System</th>
<th>Processor/ speed</th>
<th>RAM</th>
<th>Graphic board/ memory</th>
<th>Network Card (NIC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example: Operatory 1</td>
<td>Windows 7 Pro 64 bit</td>
<td>Intel 2.0 GHz, Quad core</td>
<td>4GByte</td>
<td>ATI/ 512M</td>
<td>3Com – 1Gbit/sec</td>
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<tr>
<td>1.</td>
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<td>2.</td>
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<td>7.</td>
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</table>

We will not install Software on non-compliant computers!
Macintosh computers have only been tested when running Boot Camp at this time.
11. **Reconstruction Software Requirements:**

Reconstruction software for new XG3D systems will be installed on one computer meeting the required standards. *(see workstation section 10)*

This computer need to be running to take images.

The new installations of **GALILEOS** systems will come with an additional computer (RCU), which handles only the reconstruction of the 3D volume. This unit will not have a monitor and use of this unit as a capture station is not recommended.

**XG3D systems do not come with an RCU but it can be purchased as an option.**

Office should have Antivirus software installed to avoid any virus/malware attacks.

I understand the purpose of RCU and reconstruction software. ☐ YES ☐ NO

**XG Upgrade Information:**

*(Complete this section only if upgrading an existing unit to XG3D)*

A. **Unit Serial Number:**

(Unit serial number must meet the below requirements to be upgraded.)

- XG Plus DS Sr.-No. #24000
- XG Plus DS Ceph Sr.-No. #44000
- XG 5 DS Sr.-No. #64025 to ...TBD
- XG 5 DS Ceph Sr.-No. #84026 to ...TBD

B. **Ceph Unit**

- Ceph arm installed: Yes No
- Does office swap sensor to take Ceph image: Yes No
- Total sensors ____________
  *(Order Pan sensor part # 5973958 if only one sensor is in use.)*
- Will Ceph arm be added: Yes No

*(Please Note: If Ceph arm is installed or added two sensors are required.)*

C. **Unit status:**

- Is unit free of errors: Yes No
- Current Image Count: ____________

List current Sidexis version: ____________
12. **Interface to Other Systems:**

<table>
<thead>
<tr>
<th>Brief Description</th>
<th>YES</th>
<th>NO</th>
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</thead>
<tbody>
<tr>
<td>We are using a Practice Management System from:</td>
<td></td>
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<tr>
<td>We want to export images in DICOM format to other implant planning systems</td>
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<tr>
<td>What Implant planning system do you import to:</td>
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<tr>
<td>We want to use a laptop to take images and work with them at home</td>
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<tr>
<td>We want to remotely access the images</td>
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<tr>
<td>We want to export images to a PACS environment using DICOM Worklist/Storage</td>
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<tr>
<td><em>(This application requires the purchase of DICOM Software Cat. No. 62 01 136)</em></td>
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</tr>
<tr>
<td>We are connecting (2) two or more offices through a WAN</td>
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<tr>
<td>We are using Terminal Server or Citrix in the office - <em>This application is currently NOT supported.</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>We are using Cerec:</td>
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</tr>
</tbody>
</table>

14. **Notes or Comments:**

____________________________________________________

____________________________________________________

____________________________________________________

____________________________________________________

*This survey was completed by: ______________________________ Date:____________________________*
15. Appendix: **Unit Dimensions:**

Orthophos XG - Ceph Left

Orthophos Ceph Right

Orthophos XG - No Ceph

Galileos

**Please mark the type of unit being Installed/Updated**

These drawings reflect the Standard bracket which mounts at 76 ¾”.
The maximum travel height of the unit is 88 ¾”(1815) to top of unit; 71 ½” to bite block.
The minimum travel height of the unit is 34” (appr. 86 cm)
*Add to both heights: 2 7/8” if floor stand is used.