CAD/CAM / Imaging Technical Webinar

July 11, 2013
July 11, 2013 Webinar Agenda

I. CAD/CAM (Jim Stermer)
   - New Omnicam Diagnostic Tools / Tips
   - CEREC AC Trade Up Protocols and Configuration
   - New Milling Units (MC, MC X and Practice Lab w/ Touch Panel)
   - CEREC & inLab SW 4.2 software upgrades
   - CAD/CAM Q&A

II. 3D Imaging (Eriks Blaschka)
   - Can Bus troubleshooting
   - SUI updates
   - Facescanner sneak preview
   - Imaging Q&A

III. Imaging, Schick 33 (Don Lindberg)
   - Schick 33 image enhancements and tasks
   - Microsoft Windows 8 Support
   - Schick 33 Q&A
New Omnicam Tools

- Dr Omni
  - Available on www.sironasupport.com
- Tests the Omnicam Camera
  - Communication
  - Image transmission
New Omnicam Tools

- Omnicam Performance Benchmark Files
  - Available on [www.sironasupport.com](http://www.sironasupport.com)
  - Tests CPU and Graphics performance
  - Illustrates the effects of customer scanning techniques on rendering time performance
  - 4 Benchmark files with different rendering times
New Omnicam Tools

- Omnicam PC Diagnostic Disk
  - Disk will be included with each Omnicam starting S/N 124420
  - Similar to the CEREC AC Bluecam Diagnostic Disk.
Make your own Omnicam Service Utility

Available from www.sironasupport.com

- Download and install SW 4.2 License Manager on your Laptop (Win7 required)
  - Allows you to update customers license drive on your PC

- Download and store on a Thumb drive:
  - Dr. Omni
  - Omnicam DLINK WLAN Driver V8.0
  - Omnicam Nvidia Video Driver V314.2 (needed for HHD replacements)
  - Omnicam Camera Drivers
  - CEREC SW 4.2.1 Service Pack
  - InLab SW 4.2.1 Service Pack
  - Omnicam Benchmark files
CEREC AC Trade Ups

- Installing the new Omnicam
  - Initial setup at the Branch (Omnicam w/o Mill Unit)
    - Perform Windows Updates (*Do not install Optional Updates*)
  - Run Omnicam PC diagnostics (if disk included)
  - Update WLAN Driver to V8.0
  - Update Nvidia Driver to V3.14
  - Test Camera with Dr. Omni
  - Calibrate Camera with CEREC Connect
  - **Do not install** the CEREC SW 4.2 upgrade kit at this time
CEREC AC Trade Ups

- Installing the new Omnicam
  - Setup at the Customer site.
    - Copy Patient files off of Bluecam
    - Note Bluecam WLAN and LAN settings and configure Omnicam
    - Establish Internet Connection
    - Transfer Bluecam License drive to Omnicam
    - Remove Demo License Drive on Omnicam and place on Bluecam.
    - Install CEREC SW 4.2 Upgrade Kit on Omnicam
      - Update 4.0 License drive firmware
      - Load SW 4.2 license (voucher) on the 4.0 License Drive
    - Install CEREC SW 4.2.1 Service pack
    - Re-Calibrate Camera with in CEREC SW 4.2
    - Pair H&W’s (if used), perform test mill
CEREC AC Trade Ups

- Installing the new Omnicam
  - Setup at the Customer site (Cont.)
    - Configure patient directory location to ‘D’ Partition
      - Provides more space for larger Omnicam files
      - Keeps data separate from OS, protected from erasure due to image restore.

![Database Location](image)
CEREC AC Trade Ups

- Installing the new Omnicam
- Setup at the Customer site (Cont.)
  - Configure patient directory location to ‘D’ Partition
CEREC AC Trade Ups

- Installing the new Omnicam
- Setup at the Customer site (Cont.)
  - Configure patient directory location to ‘D’ Partition

![Diagram showing setup process](image-url)
CEREC AC Trade Ups

- Installing the new Omnicam
  - Setup at the Customer site (Cont.)
    - Configure patient directory location to ‘D’ Partition

1. Type "Data" and press the ENTER key
2. Click "OK"
CEREC AC Trade Ups

- Installing the new Omnicam
  - Setup at the Customer site (Cont.)
    - Configure patient directory location to ‘D’ Partition

![Diagram showing directory location configuration](image)
New Milling Units

- CEREC MC (starting S/N 201001)
- CEREC MC X (starting S/N 230001)
- CEREC Practice Lab w/ Touch Panel (starting S/N 301001)
New Milling Units

**CEREC MC**
- Very accurate
- Attractive price
- Full anatomical single-tooth restorations

**Target:** Practices with focus on single-tooth restorations

**NEW:** Touch display, carbide bur “milling”, and metal grinding processing

**CEREC MC X**
- Very accurate
- Fast
- Chairside spectrum

**Target:** Practices offering a wide range of Chairside treatments including implants

**CEREC MC XL Practice Lab**
- Very accurate
- Fast
- Comfort
- Chairside & Labside spectrum

**Target:** Practices with a lab
## New Milling Units

<table>
<thead>
<tr>
<th>Specification</th>
<th>CEREC MC</th>
<th>CEREC MC X</th>
<th>CEREC MC XL</th>
<th>CEREC MC XL Practice Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Software</strong></td>
<td>&gt;= CEREC SW 4.2 Not compatible w/inLab</td>
<td>&gt;= CEREC SW 4.2 &gt;= inLab SW 4.2 (optional)</td>
<td>&gt;= CEREC SW 4.0.2 &gt;= inLab SW 4.0.2 (optional)</td>
<td>&gt;= CEREC SW 4.2 &gt;= inLab SW 4.2</td>
</tr>
<tr>
<td><strong>Motors</strong></td>
<td>2 Motors, not upgradable to 4</td>
<td>2 Motors, not upgradable to 4</td>
<td>2 Motors, not upgradable to 4</td>
<td>4 Motors, (“Cabrio” Design 2011)</td>
</tr>
<tr>
<td><strong>Materials &amp; Indications</strong></td>
<td>Single-tooth rest. only • No bridges, abutments, or drilling guides</td>
<td>All Chairside and Labside materials and indications • Blocks up to 40 mm • No models</td>
<td>All Chairside and Labside materials and indications • No models</td>
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</tr>
<tr>
<td><strong>Block Size</strong></td>
<td>Mono only, to 20 mm</td>
<td>Up to 40 mm</td>
<td>All sizes</td>
<td>All sizes</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>+/- 25 µm</td>
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</tr>
<tr>
<td><strong>Milling Speed</strong></td>
<td>+40-50%, Crown 15-18min</td>
<td>Normal, Crown 10-12min</td>
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</tr>
</tbody>
</table>
New Milling Units

**CEREC MC & MC X**

What’s the same as a current MC XL

- Button functions
- Milling chamber lighting
- Ports on the back side
- Optional barcode reader
- Installation and connection to PC
- Maintenance
- Milling instruments (i.e. burs)
- Software commands
- Milling process
New Milling Units

CEREC MC & MC X

WHAT’S DIFFERENT THAN A CURRENT MC XL

- Panel
- Exterior colors
- Internal components:
  - Better access for maintenance
  - modified stepper motors
  - smaller air pump
  - no radiator
- More....
New Milling Units

CEREC MC & MC X

WHAT’S DIFFERENT THAN A CURRENT MC XL

- Block holder – only 6mm sized blocks
- Block fixation tool – Torx 10 screwdriver
- Calibration phantom – same as MC XL procedure
  - Fits in MC XL units, but will not work!
- More....

NEW
New Milling Units

CEREC MC & MC X

WHAT’S DIFFERENT THAN A CURRENT MC XL

- Locking Screw in block holder (replaces fixer pin)
- Can be user replaced if broken
New Milling Units

CEREC MC & MC X

WHAT’S DIFFERENT THAN A CURRENT MC XL

- Water Tank Design
  - Easy drop in exchange of filter
    - No side access
  - Changing and cleaning of filters is easier
  - Same recommended water change cycles
  - Same recommended filter change cycles
  - Same recommended amount of DENTATEC
  - Backwards compatible with MC XL
New Milling Units

CEREC MC & MC X

WHAT’S DIFFERENT THAN A CURRENT MC XL

- Software restrictions based on milling units
- Example – CEREC MC, Bridge restoration is imported
- The user can advance to the MILL phase, but will be unable to select the CEREC MC
New Milling Units

CEREC MC XL Practice Lab

NEW

- 5” Touch Display in 16:9 wide VGA format
- Design and icons (look and feel) based on CEREC and inLab Software
- Emphasis on ease-of-use and intuitive display of process steps
### New Milling Units

#### CEREC MC XL Practice Lab

<table>
<thead>
<tr>
<th>300103 : Touch Display</th>
<th>4.2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto IP</td>
<td>1</td>
</tr>
<tr>
<td>IP Address</td>
<td>192.168.0.6</td>
</tr>
<tr>
<td>Subnet Mask</td>
<td>255.255.255.0</td>
</tr>
<tr>
<td>Gateway</td>
<td>192.168.0.1</td>
</tr>
<tr>
<td>IP Port</td>
<td>28372</td>
</tr>
</tbody>
</table>

**Edit Network Settings**

- Available without PC connection
- Auto or manual IP Address entry
- Activation/deactivation of device settings

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**Edit Device Settings**
New Milling Units

CEREC MC XL Practice Lab

- Available with PC connection
  - Status of the milling procedure
    - Progress Bar
    - 2D occlusal representation of the restoration
    - milling mode (i.e. Fast Milling, 2-Step Milling, etc.)
  - Procedures Initiated from PC
    - Change milling instruments
    - Calibration of motors
  - Barcode entry function for inLab blocks
New Milling Units

Summary

- **CEREC MC**
  - CEREC SW 4.2 or higher (included)
  - 20mm Blocks max (single units)
  - Standard Mill Speed

- **CEREC MC X**
  - CEREC (included) or inLab SW 4.2 or higher
  - 40mm blocks max, (multi units)
  - Multi milling modes (Fast)

- **CEREC Practice Lab w/ Touch Panel**
  - CEREC/inLab SW 4.2 or higher (both included)
  - All blocks (all restorations)
  - All Milling Modes
CEREC & inLab SW 4.2 Upgrades

Summary

- Requires existing SW 4.0 license (on license drive)
- License Drive may need firmware update via SW 4.2
- License manager before loading SW 4.2 license key.

Do Not use older SW 4.0 License Manager to load SW 4.2 license keys, you must use SW 4.2 License Manager

IMPORTANT! Service Pack SW 4.2.1 needs to be installed afterwards before using software.
CEREC & inLab SW 4.2 Upgrades

IMPORTANT!!! Units having Multiple License Drives

- Firmware can only be updated with 1 drive at a time
  - Notice will occur if multiple drives installed.
  - Remove other drives, update each individually.

- Make sure you have only the desired drive plugged in when loading license key.

The Firmware Update can only update one single USB License Drive at the same time. If you want to update your Firmware now, please make sure only one USB Drive is attached.
CEREC & inLab SW 4.2 Upgrades

SW 4.2 Upgrade License Vouchers
- Upgrade Kit Voucher, only has SW 4.2 license
- Also requires existing SW 4.0 license for use of software
CEREC & inLab SW 4.2 Upgrades

SW 4.2 License Vouchers
- Milling Unit Voucher (MC, MC X and Practice Lab)
  - Includes both SW 4.0 and SW 4.2 licenses
CAD/CAM Webinar

CAD/CAM

Q & A