## Technical Specifications

### X-Mind® prime 2D vs X-Mind® prime 3D

<table>
<thead>
<tr>
<th></th>
<th>X-Mind® prime 2D</th>
<th>X-Mind® prime 3D</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>X-Ray Sources</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tube type</td>
<td>D-058 (Toshiba)</td>
<td>OPX 105-12 (CEI)</td>
</tr>
<tr>
<td>Total filtration</td>
<td>2.0 mm Al eq. @ 70 kVp</td>
<td>2.5 mm Al eq. @ 86 kVp</td>
</tr>
<tr>
<td>Tube voltage</td>
<td>60 - 70 kV</td>
<td>60 - 86 kV</td>
</tr>
<tr>
<td>Anodic current</td>
<td>2.7-1.1 mA</td>
<td>2.12.5 mA</td>
</tr>
<tr>
<td>Focal spot</td>
<td>0.5 mm</td>
<td>0.5 mm</td>
</tr>
<tr>
<td><strong>Sensor</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>CCD</td>
<td>CMOS Flat panel</td>
</tr>
<tr>
<td>Pixel size</td>
<td>48 μm</td>
<td>120 μm</td>
</tr>
<tr>
<td>Voxel size</td>
<td>n.a.</td>
<td>Minimum 87.5 μm</td>
</tr>
<tr>
<td><strong>Acquisition</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PAN Programs</td>
<td>Panoramic (adult/child) - TMJ open/closed mouth in lateral projection - Maxillary sinuses (P/A) - Half panoramic (left/right) - Low dose panoramic - Ortho Rad Panoramic - Blowing (left/right) double</td>
<td>Full dentition (85 x 93 mm)* - Single jaw (85 x 50 mm)* - Mandibular teeth (50 x 50 mm) - Maxillary teeth (50 x 50 mm) - TMJ (85 x 93 mm)* - Sinus (85 x 93 mm)*</td>
</tr>
<tr>
<td>3D programs</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>Exposure time</td>
<td>14.4 s.</td>
<td>7 s. (full dentition)</td>
</tr>
<tr>
<td>Grey levels</td>
<td>4096 - 12 bits</td>
<td>65536 - 16 bits</td>
</tr>
<tr>
<td><strong>Mechanical Data</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Footprint</td>
<td>43.6” x 37.5”</td>
<td>43.6” x 37.5”</td>
</tr>
<tr>
<td>Height</td>
<td>Max 86.2 inches</td>
<td>Max 86.2 inches</td>
</tr>
<tr>
<td>Weight</td>
<td>Max 137 lbs</td>
<td>Max 148 lbs</td>
</tr>
<tr>
<td>IEC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class &amp; Type</td>
<td>Class I with type B applied parts according to IEC 60601-1 classification</td>
<td>* Not available in Canada, where these volumes are limited to 80 x 80 mm or 80 x 50 mm.</td>
</tr>
</tbody>
</table>

### Workstation Minimum Requirements

<table>
<thead>
<tr>
<th>Workstation Type</th>
<th>PAN/CEPH Windows</th>
<th>Client Windows</th>
<th>Client MAC OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel i5</td>
<td>Intel i5</td>
<td>Quadcore 2.6 GHz</td>
</tr>
<tr>
<td>Hard Disk</td>
<td>1TB 7200 rpm</td>
<td>300 GB</td>
<td>300 GB</td>
</tr>
<tr>
<td>RAM</td>
<td>8 GB</td>
<td>4 GB or 8 GB</td>
<td>4 GB or 8 GB</td>
</tr>
<tr>
<td>Graphics card</td>
<td>OPEN GL 2.1 compatible (suggested an NVIDIA GTX)</td>
<td>Nvidia Geforce or Nvidia Quadro with 1 GB dedicated RAM</td>
<td>Nvidia Geforce or Nvidia Quadro with 1 GB dedicated RAM</td>
</tr>
<tr>
<td>Screen resolution</td>
<td>1600 x 1024</td>
<td>1600 x 1024</td>
<td>1600 x 1024</td>
</tr>
<tr>
<td>Network card</td>
<td>INTEL CT 1000 pro</td>
<td>100 Mb for PAN/CEPH</td>
<td>100 Mb for PAN/CEPH</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows 7 Professional 64 bits</td>
<td>Windows 7 64 bits</td>
<td>OS X Sierra (10.12)</td>
</tr>
</tbody>
</table>
3D DIAGNOSIS IS MORE ACCESSIBLE THAN EVER WITH A SMART & COMPACT SOLUTION

56
2D and 3D exams to cover all your clinical applications

1 minute
1 to 1 Face-to-face patient positioning

Footprint space with the innovative wall-mounted system

100%
Mac® and Windows® compatible with AIS software

X-MIND® PRIME is a smart solution, providing high-technology capabilities and simplicity of use.
This ingenious unit offers all essential diagnostic tools in a cost effective package.
PROVIDE A COMPREHENSIVE CLINICAL OVERVIEW

IMPLANTOLOGY CLINICAL CASE

FROM DIAGNOSIS TO TREATMENT, REMOVE THE GUESSWORK

X-Mind® prime is a complete imaging solution combining panoramic and 3D X-rays, from general examination to specific treatment planning.

► Choose your 2D and 3D examination from a wide range of clinical applications
► Plan your treatment
► Efficiently communicate with your patient

1 INITIAL SITUATION
Reconstructed panoramic
Complete analysis, no molar present in the third quadrant (lower left). The remaining molar (31-fourth quadrant, lower right) has to be extracted and the bridge has to be removed. Modification of the crown present on 29.

2 IMPLANT PLANNING
Full dental volume
Virtually add two implants on 19 and 18 to place molar on the third quadrant. Extraction of 31 and the crown (fourth quadrant) by two implants on 30, 31.

3 POST PROCEDURE
Patient follow-up with a panoramic exam
RELY ON A COMPLETE SET OF PANORAMIC EXAMS

X-Mind® prime offers a full set of panoramic exams tailored to meet all your clinical applications. It provides all the panoramic exams required for general dentistry: dental panoramic, temporomandibular joints, sinuses.

**DENTAL PANORAMIC**
Complete overview of the mandible and maxilla, maxillary sinuses, temporomandibular joints and supporting structures.

**MAXILLARY SINUSES**
Raised image in order to increase the visibility of the sinus and the apices of the upper teeth.

**TEMPOROMANDIBULAR JOINT**
Examination can be carried out with the mouth either open or closed.

Other specific programs are available such as half-panoramic, improved orthogonal panoramic, detailed frontal dentition, low-dose panoramic and bitewing.

**CHILD PANORAMIC**
Protect your patient by reducing the exposed area and time.

**HALF-PANORAMIC**
Left & Right
Reduce the exposed area and focus on the region of interest.

**BITEWING**
Left & Right
Single or bilateral bitewing views.

**FRONTAL**
Limit the exposure to the front of the arches.

**MULTIPLE ADULT AND CHILD PANORAMIC**
- Panoramic
  - Standard
  - Half Panoramic (right/left)
  - Frontal Dentition
  - Low Dose
  - Ortho Rad
- Bitewing
  - Single (right/left)
  - Bilateral
- TMJ
  - Standard
  - Single phase
STEP INTO 3D IMAGING AND EXPAND YOUR CLINICAL APPLICATIONS

EFFICIENT 3D SOLUTION WITHIN EVERYONE’S REACH

X-Mind® prime 3D offers a multitude of acquisition programs thanks to its multiple FOV (50x50mm, 85x50mm, and 85x93mm). Once you select the region of interest of the examination, the settings and dose are automatically adjusted.

X-Mind® prime’s dedicated holder allows for scans of 3D models in various materials and designs (impressions, stone models, appliances, etc.). Easily export data in STL format!

SEVERAL FOV FOR MANY APPLICATIONS

- Full dentition
- Single jaw (maxillary / mandibular)
- Maxillary teeth
  (right molars/right premolars/incisor/left molars/left premolars)
- Mandibular teeth
  (right molars/right premolars/incisor/left molars/left premolars)
- TMJ (right/left)
- Sinus
- Full volume for pathological research - 85x50mm
- Full volume for implant planning - 85x93mm
- Sinuses caused by multiple dental infections - 50x50mm
- Frontal maxillary (50mm x 50mm)
- Complete dental volume (85mm x 93mm)
- TMJ analysis - 85x93mm
- Mandibular volume (85mm x 50mm)
- Mandibular volume (85mm x 93mm)
- Full volume - 85x93mm

SCAN 3D OBJECTS
X-Mind® prime provides many applications dedicated to the needs of both specialists and general practitioners.

- Evaluate detailed morphology of bone tissue
- Explore the maxillary sinus
- Examine maxillofacial diseases
- Detect dental anomalies
- Determine the protocol to extract impacted teeth
- Diagnose temporomandibular joint disorders
- Maxillary sinus analysis
- Apical lesion on 10 with bone destruction and extended to 9
- Cyst on fourth quadrant (lower right) with bone destruction
- Bone loss on 9, 10, 14
- Impacted canine (6)
- Left TMJ
- With a minimum voxel size of 87.5 μm, you will get detailed three-dimensional reconstructions, able to highlight the smallest anatomical elements.
COMPLETE YOUR DIAGNOSIS & TREATMENT PLANNING WITH SPEED & EFFICIENCY

OPTIMIZE YOUR DIAGNOSIS TIME WITH POWERFUL, INTUITIVE AND HIGH-PRECISION SOFTWARE

ADVANCED FUNCTIONALITY FOR INTUITIVE NAVIGATION

AIS software allows you to manage panoramic and CBCT images from acquisition to viewing.

- Implant planning
- Crown placement
- Mandibular nerve tracing
- Easy navigation in different sections
- Surface, distance and angle measurement
- Substantial and scalable implant library
- Printed implant report

- Sharing of information on a network
- Cases exported on a CD or USB stick
- Export in STL format
- Metal artifact reduction filter
- Panoramic and cephalometric image detail optimization filter
- ENT module
- Virtual endoscope
- Integrates with various patient management software
- DICOM compatible

- Superior design
- Clean lines
- User-friendly
- Open architecture
- Full integration
- Advanced functionalities
EASILY PLAN YOUR TREATMENT WITH A DIGITAL WORKFLOW

IMPLANT PLANNING MADE EASY

Delivered with the smart AIS software, X-Mind® prime is an essential tool for treatment planning and post-procedure follow-up.

- Draw a panoramic curve

- The Dual scan protocol will help you better position the implants in regards to the soft tissues due to the overlapping function. Scan the patient appliance with the X-Mind® prime’s 3D scan objects feature. Generate its surface and export it in STL file. Then this file will be used for the matching with the patient scan.

- Select the correct implant from a large library

- Trace the mandibular canal and measure the distance between the upper canal boundary and the upper mandibular crestal bone

- Print your illustrated and complete implant report in less than a minute

- Implant report
EASILY AND EFFICIENTLY POSITION YOUR PATIENT

To maximize productivity, X-Mind® prime is specifically designed to reduce the patient preparation time.

SMOOTH PATIENT POSITIONING

Natural face-to-face positioning supported by alignment lasers for correct patient positioning.

Whether sitting or standing at any height, the telescopic columns can be directly adjusted using the control panel.

X-Mind® prime open space configuration suits all types of patients and is easily accessible for wheelchair users with its zero footprint space.

SIMPLE CONTROL PANEL

The intuitive control panel smartly located below the chin support provides streamlined and precise patient positioning. Simple settings and quick examination lead to a more productive patient workflow.

Error-free patient positioning with automated chin rest support recognition.
OPTIMIZE THE SPACE WITHIN YOUR PRACTICE

INTELLIGENT WALL MOUNTED SOLUTION
Compactness is key. X-Mind® prime is a space-saving device: with its smart wall-mounted system, it will never get in your way.

Its exceptional light weight (only 148 lbs for the 3D configuration) and its reduced size makes X-Mind® prime adaptable. It will fit the narrowest space.

With zero footprint, X-Mind® prime will not reduce precious workspace within your practice.

ACTEON SERVICE & YOU
Imaging Specialists are available to show you the clinical aspects and patient benefits of ACTEON® products.

Free, ongoing and unlimited technical service can be reached Monday to Friday during normal business hours.

UNMATCHED INSTALLATION SPEED
X-Mind® prime is ready to install! Delivered completely assembled at your practice, you are all set-up in only one hour.

As simple as one box, one technician, two steps and that’s it!

It does not interrupt the daily work and operations of the office, helping you to save time.