Panoramic imaging is a routine procedure recommended for a comprehensive dental investigation, which gives the dentist the possibility to perform a complete examination of the dental arch, of the maxillary and mandibular regions, and of the temporo-mandibular joints. A powerful tool which supports very well the doctor when performing a detailed diagnosis, working out a treatment plan and making a good presentation of the same to the patient: talking in front of the full picture is much better and more productive.
Great performance
PantOs 16 is carefully designed to perform a full set of examinations including panoramic for adults or children, partial views left, right or frontal, plus the particular projections of temporo-mandibular joints with open and closed mouth on same film and of maxillary sinuses.
Program segmentation gives the flexibility to select the appropriate diagnostic view with minimum radiation to the patient and makes panoramic the recommended procedure for an overall dental investigation.

Quick operation
Patient positioning is quick and precise. It is done using a bite block or a template in case of edentulous patient. Few simple steps are required: unlock the electrical brake and adjust the height of the carriage; with patient in place check the rotation of the head using midsagittal and frankfurt lights: then align side laser beam on the canine. An optional head rest can be supplied on request.

Ease of use
A simple control panel allows the operator to select the desired procedure and set the technical parameters depending on patient size: kV level and mA for panoramic or mAs for cephalometry.

Ceph option
A cephalometric version is available with lateral arm and cephalostat to take side (LL, latero lateral) or frontal (AP, antero posterior) radiographs of the skull, for orthodontic procedures. A soft tissue filter is available with LL procedures. Adaptation of the system to teleradiography is done by rotating the tube-head in favor of the cephalostat, and selecting the beam collimating window.

- Standard Panoramic Projection: it allows for a complete diagnosis far beyond the dento-alveolar region.
- Child Projection: it features a reduced exposure time and radiation dose.
- Temporo-Mandibular Joints (TMJ): mouth open and closed on same film.
- Maxillary Sinuses: widely used for pre implant assessment.
**Technical data** PantOs 16 – PantOs 16 Ceph

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEC Classification</td>
<td>Class I, type B</td>
</tr>
<tr>
<td>Power Supply</td>
<td>115V 16 A, 230 V 8A, 50/60 Hz</td>
</tr>
<tr>
<td>X-ray generator</td>
<td>Multipulse at 20 kHz</td>
</tr>
<tr>
<td>Anodic Voltage</td>
<td>60 to 86 kV, Constant Potential</td>
</tr>
<tr>
<td>Anodic Current</td>
<td>4 to 10 mA, Direct Current</td>
</tr>
<tr>
<td>Focus size</td>
<td>0.5 IEC 336</td>
</tr>
<tr>
<td>Inherent Filtration</td>
<td>2.5 mm Al</td>
</tr>
<tr>
<td>Column Height</td>
<td>220 cm</td>
</tr>
<tr>
<td>Displacement</td>
<td>88 cm, chin-rest from 87 to 175 cm</td>
</tr>
<tr>
<td>Vertical Movement</td>
<td>Manual adjustment with electrical brake</td>
</tr>
<tr>
<td>Centering Lights</td>
<td>laser beams on 3 planes</td>
</tr>
<tr>
<td>Centering Reference</td>
<td>Bite block and template for edentulous (optionally available on request)</td>
</tr>
<tr>
<td>Head Rest</td>
<td>Side resting bars manually locked</td>
</tr>
</tbody>
</table>

**Focus Film Distance:**
- Pan: 51 cm
- Ceph: 158 cm

**Exposure time:**
- Pan: 19.3 s
- Ceph: 0.2 to 3.5s (12 steps)

**Projections:**
- Pan:
  - Adult (19.3 s)
  - Children (16 s)
  - Half Left (9.7 s)
  - Half Right (9.7 s)
  - Frontal Teeth (12.4 s)
  - TMJ opened and closed mouth (4 x 3.3 s)
- Ceph:
  - Antero Posterior
  - Latero Lateral
  - with soft tissue filter

**Cooling pause:**
- Pan: automatically controlled
- Ceph: automatically controlled

**Film size:**
- Pan: 15x30 cm, flat cassette
- Ceph: 18x24 cm / 8x10”

**Weight:**
- Pan: 215 kg
- Ceph: 230 kg

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The self-standing base is optionally available and supplied on request.

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