55-07 Orthopantomograph OP 100 (Project 97-24) (9/98)

For update, click here.

The Orthopantomograph OP 100 is an advanced dental imaging panoramic machine that is fully computer controlled. This unit has Automatic Exposure Control (AEC), Automatic Spine Compensation (ASC), a patented V-shaped X-ray beam (focal spot is 0.5 millimeters), and a built-in Quality Assurance (QA) program. The OP 100 is available with many options including: cephalometrics (OC 100), linear tomography (Ortho Trans), identification film marking (Ortho ID), special imaging software (Ortho Zone and Ortho TMJ), and digital capability. The OP 100 is available in both 110/220 volts, 50/60 hertz and is a direct current system. This machine conforms to standard ISO 9001, and is Good Manufacturing Practice/FDA cleared, UL listed, and IEC 601-1 compliant. It requires a minimum ceiling height of 92 inches and floor space of 50 inches by 36 inches. The unit weighs 450 pounds.

Manufacturer:
Instrumentarium Imaging, Inc.
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Suggested Retail Price:
OP 100 $26,200.00
OC 100 $33,900.00
Ortho Trans $36,100.00
Ortho Zone $750.00
Ortho TMJ $750.00
Ortho ID $1,800.00

Government Price:
OP 100 $18,340.00
OC 100 $23,730.00
Ortho Trans $25,270.00
Ortho Zone $525.00
Ortho TMJ $525.00
Ortho ID $1,260.00

ADVANTAGES:
+ Computer-controlled radiation provides best image with lowest exposure.
+ Patented Automatic Exposure Control produces consistent image quality.
+ Patented V beam corrects for differences in skull anatomy resulting in higher resolution.
+ Easy to understand control panel.
+ Open design facilitates accessibility.
+ Unique-positioning system decreases common operator positioning errors.
+ Small focal spot delivers high definition.
+ Easy to use tomography system eliminates the need for a separate dedicated system.
+ Cost-competitive tomography; most cost-efficient way to assess bone quality for implants.
+ Flexible system with many options.
+ Easy to add digital radiography components.
+ Laminated checklist.
+ Conforms to ISO standard 9001.
+ GMP/FDA cleared; UL listed; IEC 601-1 compliant.

DISADVANTAGES:
- Potential for tubehead to contact back of patient's head during tomographic imaging if patient is positioned incorrectly (contact may startle patient).

SUMMARY AND CONCLUSIONS:
The Orthopantomograph OP 100 is a versatile, user-friendly dental panoramic unit with the potential for multiple upgrades. It is the only system with Automatic Exposure Control, and has an extremely small focal spot producing consistent image quality with higher density, resolution, and contrast. The basic unit is appropriate for any size clinic and can be retrofitted at a future date for cephalometrics, linear tomography, or digital imaging. The OP 100 was evaluated by the USAF Advisor in Maxillofacial Radiology and found to be extremely easy to use, producing consistent high quality films. The Orthopantomograph OP 100 is rated Recommended for use by the federal dental services.