

### 51-12 Planmeca PM 2002 CC (Project 97-13) (9/97)

The Planmeca PM 2002 CC is a software-controlled, stepper-motor operated dental panoramic x-ray machine. It consists of an x-ray tubehead and a cassette assembly mounted on a support column. Although the unit is designed for imaging patients who are standing, it easily accepts patients seated in wheelchairs. The unit uses three light beams, a chin rest, a bite guide, and a head guide to position and stabilize the patient. Unlike most other stand-up panoramic units, in which the patient faces a mirror, patients enter the PM 2002 CC from the side, facing the technician. This allows the technician to directly observe the patient, which facilitates correct positioning and contributes to distortion-free images.



The focal trough is adjustable both for arch size (small, medium, large) and arch shape (narrow, tapered, square). All imaging parameters are easily adjusted using a touchpad mounted on the support column. In TMJ mode, four TMJ exposures can be made on each panoramic film. The small focal spot (0.5 mm by 0.5 mm) produces images with excellent resolution. The unit uses a rigid film cassette and features a unique Autoprint Film Marking System as an available option. The Autoprint keyboard allows the user to enter patient and film exposure information that is imprinted directly and permanently onto the upper edge of panoramic and TMJ films as they are exposed. Another option, the Admark System, allows this information to be added onto cephalometric films in the darkroom. The PM 2002 CC is available in either 110/220 volt, 50/60 cycle alternating current. It requires a ceiling height of 86.5 inches and floorspace measuring 60 inches wide (64 inches with Autoprint option) by 37.5 inches deep.

#### **Manufacturer:**

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00810 Helsinki, Finland  
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#### **Source:**

Planmeca, Inc  
362 Balm Court  
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(630)-595-7077  
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#### **Suggested Retail Price:**

\$27,000.00 PM 2002 CC (#5001, includes one rigid cassette)  
\$33,509.00 Standard Panoramic Cephalometric (#50011, includes one panoramic and one cephalometric cassette, and one set of rare earth screens)  
\$ 3,130.00Autoprint option (#50951)\$ 3,995.00Admark option (#665504)  
\$ 575.00 Standard Rigid Cassette (#50955, includes set of rare earth screens)  
\$ 550.00 Cephalometric Cassette (#50959)  
\$ 725.00 Autoprint Cassette (#665166)

#### **Government Price:**

\$13,247.35 PM 2002 CC (same as above)  
\$16,748.00 Standard Panoramic Cephalometric (same as above)  
\$ 1,878.00Autoprint option (not on Federal Supply Schedule)

\$ 2,212.50 Admark option (same as above)  
\$ 309.75 Standard Rigid Cassette (same as above)  
\$ 309.75 Cephalometric cassette (same as above)  
\$ 435.00 Autoprint cassette (not on Federal Supply Schedule)

**ADVANTAGES:**

- + Produces excellent quality panoramic and TMJ films; small focal spot produces high resolution images.
- + Easy to install and operate.
- + Easy to position patient; provides better than average wheelchair access.
- + Patient faces operator (instead of the wall) during exposure; this may reassure patient and enhance patient confidence.
- + Very effective method for stabilizing patient while film is being made.
- + Operating features rated "Excellent" or "Good" by 100% of field users surveyed.
- + Recommended for use by others by 100% of field users surveyed.
- + Constant potential generator permits use of lower kVp, resulting in lower patient exposure.
- + Has multiple, standard, pre-programmed functions for various arch sizes and shapes and special films (panoramic, enhanced panoramic, TMJ, sinus).
- + Selection of pediatric mode automatically reduces time and field of exposure.
- + Electronic controls allow smooth operation and facilitate changing functions; minimal effort required to switch from panoramic to TMJ to cephalometric.
- + Autoprint option allows automatic labeling of panoramic and TMJ films.
- + Compact tubehead design facilitates patient positioning.
- + Operation manuals available on CD ROM.
- + Less expensive than other units using advanced technology.

**DISADVANTAGES:**

- More expensive than units based on mechanical technology.
- Company has relatively short track record of government sales.
- Bite forks can not be heat sterilized.

**SUMMARY AND CONCLUSION:**

The Planmeca PM 2002 CC is an electronically-controlled panoramic machine. Its small focal spot, generous focal trough, and smooth movement contribute to its ability to make excellent panoramic, TMJ, and cephalometric images. It is relatively easy to install, easy to use, makes excellent radiographs, and is reliable. Although the PM 2002 CC is more expensive than older, mechanical panoramic units, it is less expensive than other electronically-controlled units. The **Planmeca PM 2002 CC** is rated **Recommended** for use by the Federal dental services.