

# TOOTH-PAN/TOOTH-CEPH

## Extraoral

### Panoramic and Cephalometric Radiographic System

#### SYSTEM CONFIGURATIONS

Code	Article
97 680 00100	Panoramic System Film based
97 680 00200	Panoramic and Cephalometric System Film based metric format
97 680 00300	Film based Panoramic and Cephalometric System inch format

#### OPTIONAL COMPLEMENTARY ITEMS

Code	Article
76 680 10010	Bite block
76 680 10020	Chin rest
76 680 30050	Temporal Resting bars
76 680 30060	Ear Plug Ceph (set of two)
97 680 02000	Self standing base

#### DIAGNOSTIC PROJECTIONS

Mode	Examination	Exposure Time
<b>Panoramic</b>	Adult standard with constant vertical magnification on dental arch	15 s
	Child at reduced dose	13 s
	Half Dentition Left	8 s
	Half Dentition Right	8 s
	Anterior Teeth	7 s
	TMJ habitual occlusion and opened at maximum extent	4 x 2.5 s
	Frontal View of Maxillary Sinuses	13 s

Mode	Examination	Exposure Time
<b>Cephalometric</b>	Antero Posterior	Selectable from 0.2 s to 4 s according to R10 scale
	Latero Lateral Adult	
	Latero Lateral Child	
	Carpus	

#### ANATOMICAL SELECTION

Patients size: 4 positions: small, medium, large, extra large

#### X-RAY GENERATOR

- Type: Multi-pulse at 40-80 kHz
- Anode Voltage: 61-85 kV  $\pm 10\%$ , constant potential
- Anode Current: 4-10 mA  $\pm 10\%$ , direct current (DC)
- Cool Down Time: Automatically controlled with no waiting time under load limit. Variable waiting time to resume from out of limit

#### TECHNIQUE FACTORS

- kV: Anode Voltage: 9 steps 3kV:  
61, 64, 67, 70, 73, 76, 79, 82, 85
- mA: Anode current: 5 steps R10 scale:  
4.0, 5.0, 6.3, 8.0, 10.0
- mAs: Anode Current time product: 13 steps R10 scale:  
2.0, 2.5, 3.2, 4.0, 5.0, 6.3, 8.0, 10, 12, 16, 25, 32, 40

**X-RAY TUBE**

- Focus size: 0.5 IEC 336
- Inherent Filtration: > 3.0 mm Al @ 85 kV
- Leakage Radiation: < 50 mR/h (0.43 mGy/h) @ 100 cm, 85 kV, 10 mA

**AIMING LIGHT**

- Type: LASER light plane
- Wavelength: 650 nm
- Leakage Radiation: < 0.11 mW at 100 mm
- FDA Classification: Class I

**PATIENT POSITIONING**

- Aiming Lights:
  - Midsagittal vertical LASER plane
  - Frankfurt horizontal LASER plane
  - Lateral vertical LASER plane on canine
- Normal reference: Bite Block
- Edentulous aid: Chin rest
- Additional support: Tuneable temporal resting bars (optional)

**CARRIAGE ADJUSTMENT**

- Vertical: Manual movement locked by electrical brake
- Vertical travel: 86 cm (34'') bite point from 89 cm to 175 cm (from 35'' to 68.9'')
- Horizontal: Motorized front-back horizontal displacement
- Access: Can accommodate for wheel chair

**IMAGING GEOMETRY**

	<b>Panoramic Mode</b>	<b>Cephalometric Mode</b>
• Source-image distance	51.3 cm (20.2'')	165 cm (65'')
• Image magnification at image receptor level	27% Vertical	10%
• Panoramic Slit at receptor level	Adult/Child 6x135 mm	Adult 6x135 mm Child 6x110 mm
• Cephalometric opening at receptor level	N/A	10x10''
• Soft tissue filter	N/A	LLA Fixed Adult LLB Fixed Child

**CASSETTE SIZE**

	<b>Size</b>	<b>Screen</b>
• Panoramic	15x30 cm	Green type
• Cephalometric Metric	18x24 cm	Green Type
• Cephalometric Inch	8x10''	Green Type

**ELECTRICAL POWER SUPPLY**

- Power line:
  - 230 V ±10%, 50/60 Hz, 8A, slow blow fuse
  - 115 V ±10%, 50/60 Hz, 16A, slow blow fuse

**ENVIRONMENTAL DATA**

	<b>Ambient</b>	<b>Transport &amp; Storage</b>
Temperature	From 10 to 40 °C	From -20 to +50 °C
Relative Humidity	From 30 to 75%	From 10 to 100%
Pressure	From 700 to 1060 hPa	From 500 to 1060 hPa

**STANDARD AND REGULATIONS**

- CE:
  - European Council Directive 93/42/EEC.
  - Medical Device listed in class IIb, with accessories in class I
- IEC:
  - Class I, type B equipment with Class I lasers (IEC 60825-1)
  - IEC 601-1, IEC 601-1-2, IEC 601-1-3, IEC 601-2-7, IEC 601-2-28

**DIMENSION**

	<b>Panoramic System</b>	<b>Cephalometric Mode</b>
• Column height	220 cm (87'')	220 cm (87'')
• Maximum height	230 cm (90.55'')	230 cm (90.55'')
• Room depth	110 cm	110 cm
• Room width	140 cm	225 cm
• Weight	180 kg (397 lb)	220 kg (529 lb)

