



Product Data

## Endos DC

Intra-oral X-ray unit with high frequency DC generator

### Tubehead features

High voltage circuit type	High frequency, constant potential (DC)
Inverter frequency	100 kHz
Ripple	< 4%
Rated output voltage	65 kVp $\pm$ 5%
Tubehead current	4 and 5 mA
Maximum deviation of output current	$\pm$ 5%
Tubehead power	325 W
Total filtration	2 mm Al eq. @ 65 kV
Interval between exposures (duty cycle)	1:15 (adaptive control)
Minimum focus to skin distance	20 cm 30 cm with optional collimator cone
X-ray field (at collimator tip)	Circular, diameter 6 cm Rectangular 35x45mm with optional diaphragm
Leakage radiation @ 1m	< 0.25 mGy/h
Technical factors for leakage radiation	65 kV, 5 mA, 1 s, 200 exp/h
Tube insert type	OCX/70-G
Focal spot	0.7 @ 5mA (IEC 336)
Anode material	Tungsten
Anode angle	19°
Inherent filtration	0.5 mm Al eq. @ 65 kV
Anode thermal capacity	6 kJ

### Scissors and extension arm features

Material	Aluminum
Type of painting	Glossy
Mounting type	- Wall mount with local timer - Wall mount with remote keyboard - Mobile unit on trolley
Choice of extension arm length (only for wall mounted units)	- 30 cm - 60 cm - 80 cm

**Timer features**

Exposure times	From 0.01 to 2s in 35 steps
Exposure times control	Microprocessor controlled exposure times
Timer accuracy	± 5% or ± 2ms (whatever is greater)
Exposure times visualization	On digital display. Possibility of regulation of display brightness in set-up
Exposure button	With extensible cable (3m)
Number of anatomic programs	60 pre-set times
Choice of patient size	3 choices (small, medium, large)
Choice of anatomic region	<ul style="list-style-type: none"> <li>- Incisors/canines (upper an lower)</li> <li>- Premolars (upper an lower)</li> <li>- Upper molars</li> <li>- Lower molars</li> <li>- Bite wing</li> </ul>
Selection type of receptor	4 choices (standard film, high speed film, digital, custom) with pushbutton on keyboard. In base of your selection, anodic current is automatically set: standard film: 5 mA high speed film: 5 mA digital receptor: 4 mA customizable: 4/5 mA set by user
Variation of times for collimator cone = 30cm	A keyboard selection allows to change automatically exposure times when it is used the cone collimator=30 cm
Visualization of number of exposures	Yes
External connections	Provisions for connection of: <ul style="list-style-type: none"> <li>- Remote x-ray pushbutton</li> <li>- Unit powered signal lamp</li> <li>- X-ray active signal lamp</li> </ul>
Serial Interface	Serial port RS 232 for future applications

**Electrical characteristics**

Line voltage	198÷264V (corresponding to 220/230/240V ± 10%)	90÷132V (corresponding to 110/120V ± 10%)
Line frequency	50/60 Hz	
Absorbed current	2.25 A @ 230V	4.5 A @ 120V
Absorbed power	0.55 kVA @ 230V	0.6 kVA @ 120V
Line resistance	≤ 0.8 Ohm	≤ 0.4 Ohm

**Environmental conditions**

Operating conditions	Temperature: da +10° a +40° Celsius Humidity: da 30% a 75%
Conditions for transport and storage	Temperature: da -20° a +70° Celsius Humidity: fino a 95 % non condensante Pressure: fino a 630 hPa



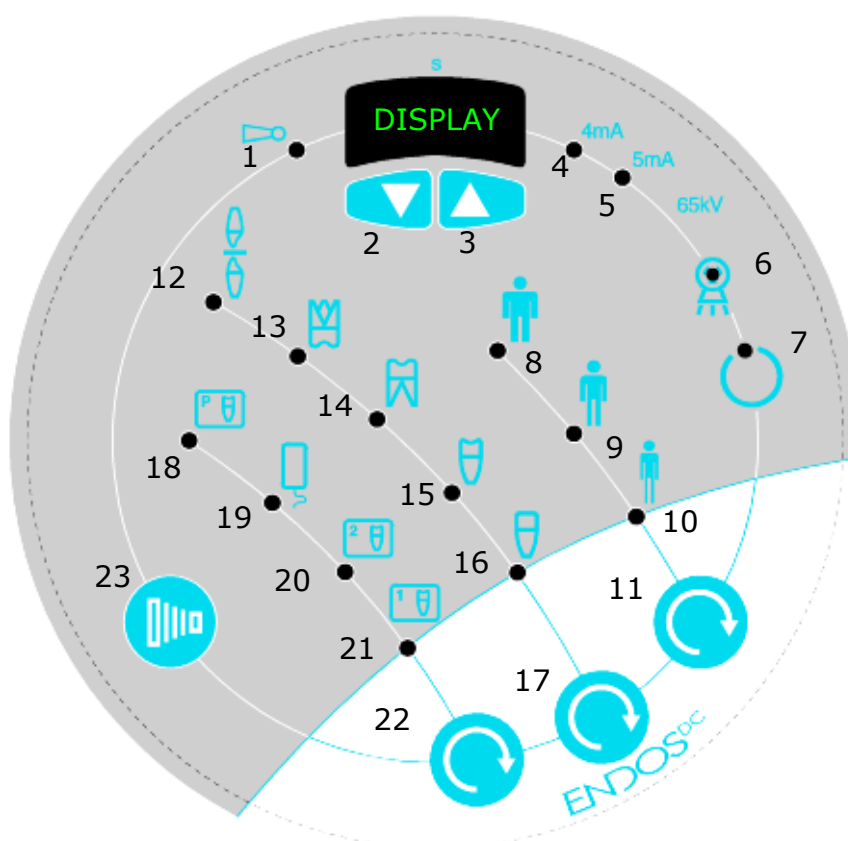
### Standard e normative

This product is designed and produced to meet the following standards:  
EN 60601-1, EN 60601-1-1, EN 60601-1-2, EN 60601-1-3, EN 60601-1-4, EN 60601-2-7,  
EN 60601-2-28, EN 60601-2-32, EN 1441



CE symbol grants the product compliance to the European Directive for Medical Devices 93/42 as a class IIB device.

### Keyboard functions



1. Collimator cone=30cm signal lamp
2. Manual decrease of exposure times
3. Manual increase of exposure times
4. Anodic current=4 mA signal lamp
5. Anodic current=5 mA signal lamp
6. X-ray emission warning lamp
7. Ready for exposure signal lamp
8. Large patient size signal lamp
9. Medium patient size signal lamp
10. Small patient size signal lamp
11. Patient size selection
12. Bite wing signal lamp
13. Upper molars signal lamp
14. Lower molars signal lamp
15. Premolars (upper and lower) signal lamp
16. Incisors/canines (upper and lower) signal lamp
17. Anatomic selection
18. Custom receptor signal lamp
19. Digital receptor signal lamp
20. High speed film signal lamp
21. Standard film signal lamp
22. Type of receptor selection
23. X-ray pushbutton



### Site planning (quotes in mm and inches)

