Maxso® E800P

Portable Electric Handpiece System

Instruction for Use

Beyes
CANADA

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1. Introduction

Brushless electric micromotor system for driving dental handpieces for dental surgery at a constant torque and consistent speed at high load. Mainly used for dental aesthetics restoration, crown preparation, and can be used for all high-speed and low-speed handpiece applications.

⚠ **Cautions for safe handling and operation**

Read these safety precautions first before using this product.
These instructions will show you how to operate this product safely and prevent injury to yourself or others. They are classified by the degree and/or severity of danger. All cautions regarding safety should be observed.

⚠ **Caution:**

1. To prevent electric shock: Do not pull or plug in the power cord with wet hands.
2. To prevent electric shock: Prevent water from getting on to the control box.
3. Keep away from explosives and flammable materials.
4. Do not use this dental electric motor for patients who are anesthetized with nitrous oxide.

⚠ **Warning:**

1. This dental electric motor may malfunction when used in an environment where electromagnetic interference occurs. This dental electric motor cannot be installed near devices that release magnetic waves. When using an ultrasonic vibrating device or an electrode knife in the vicinity, make sure the switch on the dental electric motor control panel is turned off.
2. Maxso E800P requires special precautions for EMC and needs to be installed and put into use according to the EMC environment.
3. Device with electromagnetic transmitting will affect the normal operation of Maxso E800P. Please do not run both devices at the same time.
4. Do not use it in operating rooms that contain a mixture of potentially flammable gas.
5. To avoid personal injury or damage to the dental electric motor, make sure that the motor handpiece (hereinafter referred to as the motor) has completely stopped when connecting or disconnecting the handpiece.
6. A severe impact, such as a drop from high position, can result in damage to the dental electric motor.
7. Do not try to disassemble the control panel or motor.
8. After use, please immediately clean, lubricate and disinfect the dental handpiece (hereinafter referred to as the handpiece).
9. Do not lubricate the motor. The lubricant can cause overheating and damage the motor.
10. Do not use a solution with dissolving ability to clean the control panel.
11. Do not remove the motor cable from the motor.
12. After each operation, turn off the power supply.

1.2 Intended use
Provide driving force for dental handpieces for the purpose of dental surgery.

1.3 Model
Maxso E800P

1.4 Contraindications
Beyes Dental Canada Inc. will not be liable for any direct or indirect damages and losses under the following conditions:
•The device is used to the unmentioned usages or the usages outside the scope of applications.
•The operator did not use the device with the method in accordance with the procedures and requirements stipulated in the Instruction Manual.
•The wiring system of the room where the device is used does not meet the requirements of appropriate standard and other proper requirements.
•Assembling, operating, and repairing the equipment without the authorization of Beyes Dental Canada inc.
•The environmental conditions in which the equipment is located or stored do not meet the requirements mentioned in the section on technical requirements.

1.5 Safety requirements
Beyes Dental Canada Inc. will not be liable for any direct or indirect damages and losses under the following conditions:
•The device is used to the unmentioned usages or the usages outside the scope of application.
•The operator did not use the device with the method in accordance with the procedures and requirements stipulated in the Instruction Manual.
•The wiring system of the room where the device is used does not meet the requirements of appropriate standard and other proper requirements.
•Assembling, operating, and repairing the equipment without the authorization of the Beyes.
•The environmental conditions in which the equipment is located or stored do not meet the requirements mentioned in the section on technical requirements.

2. Basic technical parameters

2.1 Specification of main unit
Model: Maxso E800P
Size:165.5mm×129.7mm×77.6mm
Power supply input: 100-240V~ 50/60Hz 2.5A
Power supply output: DC 30V 3.2A

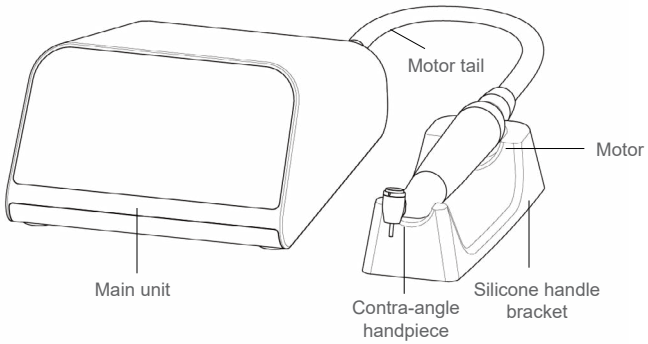
2.2 Motor specification
Model: E800 MC
Rotation speed: 2000-40000 rpm;
Voltage input: DC 24V
Size: φ22×76.7mm
Tail cord length: 1.8m

2.3 Use environment
2.3.1 Ambient temperature: +5°C~ +40°C
2.3.2 Relative humidity: 30% ~ 75%
2.3.3 Atmospheric pressure: 70kPa ~ 106kPa
2.4 Device safety classification
2.4.1 Type of protection against electric shock: Class II equipment
2.4.2 Degree of protection against electric shock: B type applied part
2.4.3 Degree of protection against harmful ingress of water:
Ordinary equipment (IPX0). Not waterproof.
2.4.4 Classified by operation mode: Intermittent operating device
2.4.5 Degree of safety application in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide: Equipment cannot be used in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide.

3. Product performance structure and composition

⚠ **3.1 Safety requirements during installation**
Danger: Equipment is installed on the premise that the installation must comply with appropriate standards and associated electric safety requirements.
Danger: Never install the unit in an explosive atmosphere and do not operate in areas with flammable gases (anaesthetic mixtures, oxygen, etc.).
Danger: The installation site should be protected from shocks and splashes of water or other liquids.
Danger: Do not install the unit near or above the heat source. It must be installed in a place where the surrounding air is sufficiently circulated. There is enough space around it, especially for the exhaust fan and the back position.
Warning: Do not place the parts directly under sunlight or ultraviolet light.
Warning: This equipment is movable, but please handles with care.
Warning: Make sure the connection parts are dry before connecting the wires to the unit. If necessary, blow to dry it with an air gun.

3.2 See the packing list for the machine configuration.
It mainly consists of main unit, motor, power adapter, etc.



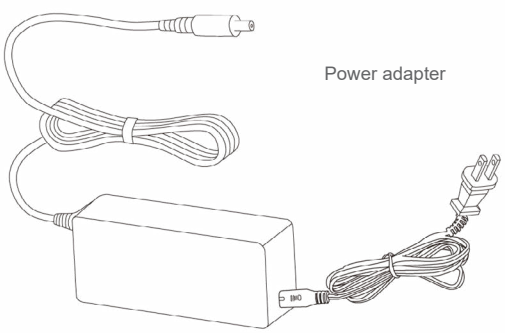


Figure 1

3.3 Front View of the Main Unit

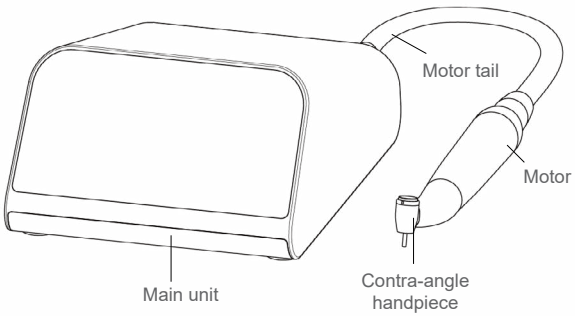


Figure 2

3.4 Rear view of the main unit

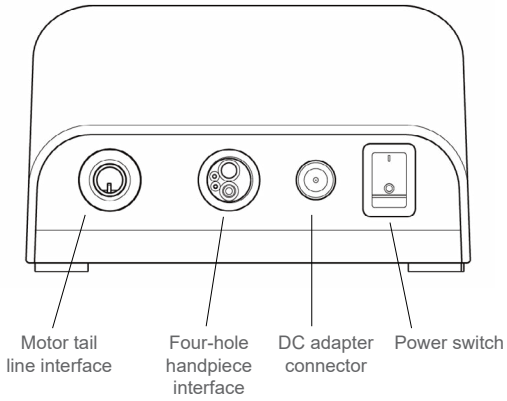


Figure 3

3.5 Schematic diagram of motor installation

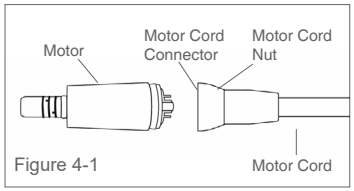


Figure 4-1

3.5.1 Connecting/ Disconnecting the motor and the motor cord
A. Align and insert the motor pin firmly into the pin holes of the motor cord connector and fasten the motor cord nut securely.
B. To remove the motor cord from the motor, unscrew and detach the motor cord nut, and gently pull out the motor cord connector.

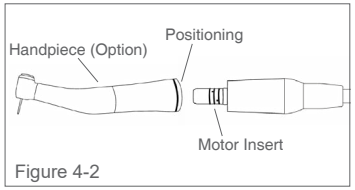


Figure 4-2

3.5.2 Connecting/Disconnecting the motor and handpiece
A. To insert the E-Type handpiece into the motor, align the hand piece and motor, then turn until you hear a click (positioning pins are aligned)
B. To remove the handpiece, simply pull the hand piece from the motor.

3.6 Installation steps

3.6.1 First open the package to check whether the items of the equipment are complete according to the packing list, and place the main unit on a stable surface.

3.6.2 Connect the four-hole handpiece tube to the control box through the four-hole handpiece connector and tighten it.

3.6.3 Connect the power adapter to the DC adapter connector and connect the socket to the DC adapter with the power cord.

4. Main unit interface

4.1 Main interface

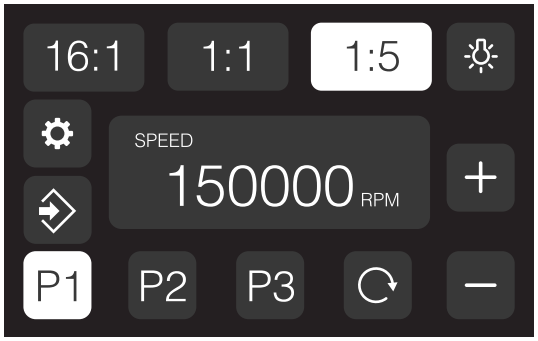


Figure 5

4.2 Setting interface

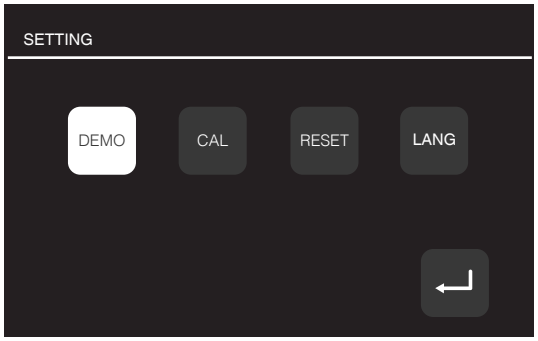


Figure 6

4.3 Manual mode interface

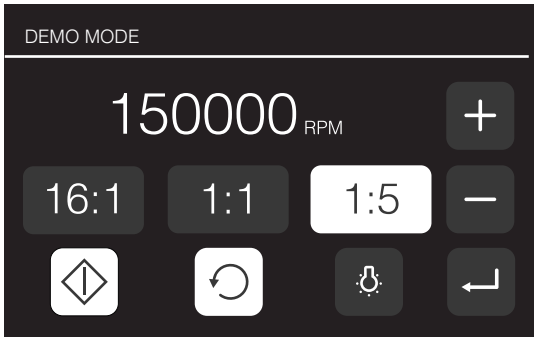


Figure 7

4.4 Interface of calibration mode

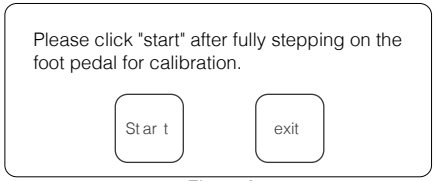


Figure 8

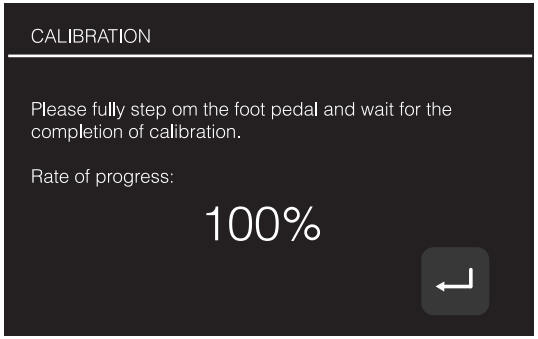


Figure 9

Enter the setting interface, click the calibration mode touch button, enter the air pressure calibration interface, click “Start”, and the interface will pop up as shown in Figure 9. Fully press down on the foot pedal until it displays 100%, and then release the pedal. The calibration screen should show it is successful.

4.5 Restore the factory setting

Figure 10

Enter the setting interface, and click the restore factory settings touch button to enter the restore factory settings interface for confirmation. In confirming interface, click OK, the interface shown in Figure 10 will pop up. Select “OK” to restore to original factory settings parameters or select “Cancel” to quit restoring factory settings.

4.6 Language selecting interface

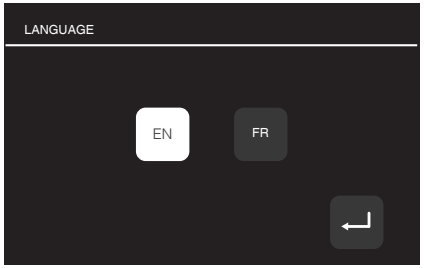


Figure 11

Enter the setting interface, click the language selection touch button so that the interface shown in Figure 11 will pop up, and select the desired language. When you click “OK”, the corresponding language selected will save. When you select “Cancel”, the original language setting would be maintained.

5. Function and operation

5.1 Install the product correctly according to the product installation steps, and the operator should face the screen.

5.2 Turn on the power switch on the main unit, the screen will display and enter the main control interface (Figure 1).

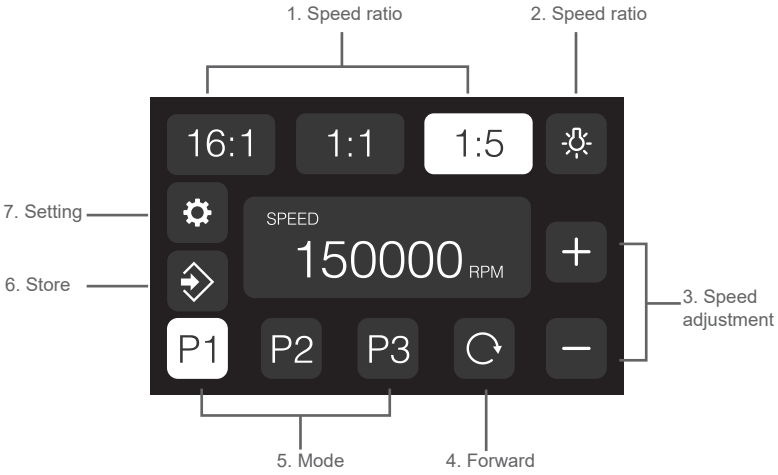
5.3 The electric motor operation is controlled by the foot pedal of the dental chair.

5.4 Make sure that the pedal control calibration is performed before using the unit for the first time.

5.5 Icon description

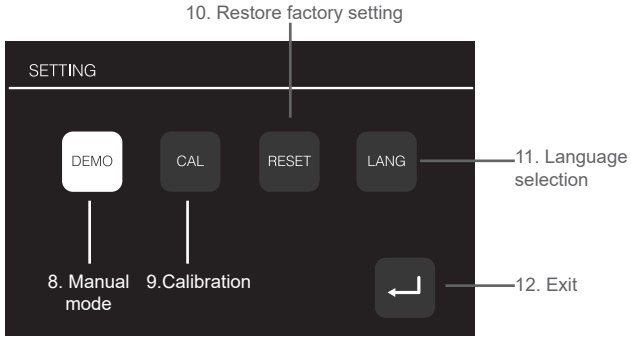
Icon	Name	Function
P1 P2 P3	Mode	Select the preset fixed speed. (P1/P2/P3)
16:1 1:1 1:5	Speed ratio	Select the speed of contraangle (16:1/1:1/1:5)
+	Speed adjustment	Increase speed
−	Speed adjustment	Decrease speed
	Store	Store the set parameters
	Forward/Reverse rotation	Control the forward and reverse rotation of motor
SPEED 150000 RPM	Speed	Display the set operating speed
	Setting	Enter the setting interface
DEMO	Manual mode	Enter manual mode adjusting interface
CAL	Calibration	Enter calibration interface
RESET	Restore factory setting	Restore the system to factory setting.
LANG	Language selection	Enter language setting interface
	Exit	Exit the submenu setting mode
	Start	Start to activate the motor
	Stop	Stop the motor
	LED	Turn on/off the motor LED
150000 RPM	Speed adjustment	Set the speed using the Speed Adjustment Key (+/-).

5.6 Basic function adjustment on main unit controlling interface



5.6.1 Select speed ratio by through touching key “1”. The color of the key will change when touching the key.
5.6.2 Control the ON and OFF of LED through key “2”.
5.6.3 Adjust the speed of the motor by using key “3”. Increase or decrease speed with key “+” and “-”.
5.6.4 Set forward rotation or reverse rotation by using key “4”.
5.6.5 Set the working speed of corresponding mode by touching key “5”.
5.6.6 Store the set speed ratio, speed, mode, forward rotation/reverse rotation, and the ON/OFF of LED by touching key “6”.
5.6.7 Enter setting interface by touching key “7”.

5.7 Basic function adjustment in setting interface



5.7.1 In setting interface, touch key “8” Manual Mode key to enter demo mode interface. Under the demo mode state, the motor rotation can be directly controlled without foot pedal. Touch Speed Ratio key to select corresponding speed ratio. Touch Speed key to adjust the speed. Touch Start key, Stop key, Forward/Reverse Rotation key, and LED key to control the output of motor. Touch the Exit key to exit the demo mode interface.
5.7.2 In setting interface, touch key “9” Calibration key, touch Start key, and the interface shown in Figure 8, 9 will pop up. Fully step on the foot pedal until the screen displays 100%, and release the foot pedal to finish the calibration.
5.7.3 In setting interface, touch key “10” Restore Factory Setting key, click OK to enter interface shown in Figure 10, and decide whether to restore the factory setting by clicking “OK” or “Cancel” key.
5.7.4 In setting interface, touch key “11” to enter interface shown in Figure 7 for language selection.
5.7.5 In the setting interface, touch key “12” to exit submenu setting mode.

6. Safety precautions

⚠ **Cautions:**

6.1 For repairs and purchase of spare parts, please contact our authorized dealers.
6.2 The accuracy of the speed monitoring depends on the high precision performance of the handpiece installed on the micro motor.
To ensure the accuracy of the display speed, please use Beyes electric handpieces with the motor.
6.3 Read this operating manual before use and fully understand the functions of each part.
6.4 Check the operating status of the dental electric motor before use to confirm that there is no abnormality.
6.5 Test the dental electric motor before use to ensure accurate operation.
6.6 If the dental electric motor is permanently malfunctioning (excessive vibration, noise and heat generation, etc.), please immediately close it and return it to the authorized dealer.
6.7 Clean the control panel with a damp cloth and turn off the power before cleaning.

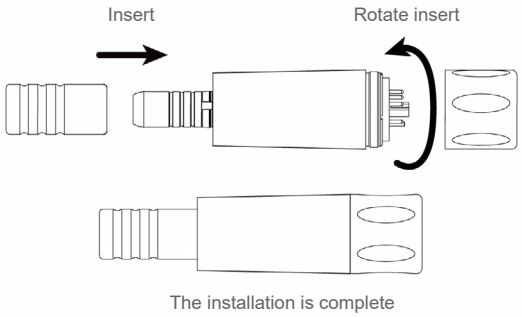
7. Cleaning, disinfection and sterilization

7.1 Cleaning
Cleaning the motor surface with a water-absorbent cloth to remove any liquid residue from the motor surface and wipe it back and forth 5 times.

7.2 Disinfection
Use a chlorine-free disinfectant to wipe the motor. It is recommended to use Cavicide disinfectant or 75% alcohol, but do not soak the motor in the disinfectant.

7.3 Drying
Drying should be conducted after cleaning and disinfection. It is recommended to use compressed air to dry.

7.4 Sterilization
Before sterilization, first remove the motor, install a sterile plug and a sterile aluminum sleeve, place the motor in a high pressure steam sterilization bag, and seal it. And then sterilize it under the temperature and pressure of 134°C (273 ° F) and 2.0 bar ~ 2.3 bar (0.20MPa ~ 0.23MPa)) for not less than 4 minutes. Drying is needed after sterilization, The sterilization of the dental contra-angle handpiece is detailed in the instruction manual of the contra-angle handpiece.



⚠ **Warning:**

1. Install disinfection plug and disinfection aluminum sleeve at the motor interface before sterilization. The installation method is shown above.
2. Before sterilization, the motor cord should be removed.
3. Do not lubricate the inside of the motor.
4. The motor can be sterilized repeatedly for at least 250 cycles of sterilization.
5. Sterilize the motor only. Do not autoclave (or any high temperature sterilization) control box, AC adaptor, or motor cord.

8. Troubleshooting

Fault	Cause	Solution
Error 01	Step on the foot pedal before turning on the device, so that the voltage is too high.	Release the foot pedal and reboot.
Error 02	The input voltage is too high or too low.	Check whether the power adapter is right.
Error 03	Motor abnormality	Check whether the motor is well connected or replace the motor.

If the problem still cannot be solved, please contact our local distributor or our company.

Note: The user must use the original accessories. Please contact our local dealer or the company for purchase. It is forbidden to use related accessories of other brands, so as to avoid damage to the electric motor or other dangers.

9. Storage and transport

9.1 The device should be handled carefully and lightly. Be sure that it is far from the vibration, and installed or kept in a cool, dry, and ventilated place.
9.2 Do not store the machine together with articles that is poisonous, combustible, caustic, or explosive.
9.3 This machine should be stored in a room where the relative humidity is10%~93%, atmospheric pressure is 70kPa~106kPa, and the temperature is -20°C~+55°C.
9.4 Excessive impact and shake should be prevented during transport. Lay it carefully and lightly.
9.5 Do not put it together with dangerous goods during transport.
9.6 Avoid being exposed to sun, rain, and snow during transport.

10. After-sales service

Beyes Dental Canada Inc. is responsible for repairs under the warranty period if the device cannot work normally due to a quality defect. The device must be registered with Warranty Card from the date of invoice to the original user. Please refer to the Warranty Card for details of warranty.

11. Environment protection

Part	Toxic or harmful substances or elements					
	(Pb)	(Hg)	(Cd)	(Cr6+)	(PBB)	(PBDE)
Main unit	○	○	○	○	○	○
Motor handpiece	○	○	○	○	○	○
Power adapter	○	○	○	○	○	○
Dental contra-angle	○	○	○	○	○	○
Mechanical elements, including bolts, nuts, washers, etc.	○	○	○	○	○	○

○: Indicates that the content of the toxic substance in all homogeneous materials of the part is below the limit requirement stipulated in SJ/T-11363-2006 Limit Requirements for Toxic and Hazardous Substances in Electronic Information Products.
×: indicates that the content of the toxic substance in at least one of the homogeneous materials of the part exceeds the limit requirement specified in SJ/T-11363-2006. (This product meets EU RoHS environmental protection requirements; there is currently no mature technology in the world to replace or reduce the content of lead in electronic ceramics, optical glass, steel and copper alloy.) According to the Administrative Measures on the Restriction of the Use of Hazardous Substances in Electric and Electronic Products and the Regulations on the Management of the Recycling of Waste Electric and Electronic Products and related standards, please observe the safety and precautions of the products, and after use, please recycle or dispose this product after according to the methods in local laws and regulations.

12. Symbol instruction


Date of manufacture


Type BF applied part


Used indoor only

Humidity limitation

Atmospheric pressure for storage

Ordinary equipment


Manufacturer


Class II equipment


Follow Instructions for Use

Temperature limitation

Can be autoclaved


Appliance compliance WEEE directive

13. EMC-Declaration of conformity

The device has been tested and homologated in accordance with EN 60601-1-2 for EMC. This does not guarantee in any way that this device will not be effected by electromagnetic interference Avoid using the device in high electromagnetic environment.

Serial number	Cable name	cable length (m)	Cable type
1	Power cord (input)	1.2m	Unshielded parallel line
2	Power cord (output)	1.2m	Unshielded parallel line
3	Handle tail	1.8m	Unshielded parallel line

Technical Description Concerning Electromagnetic Emission
Table 1: Declaration - electromagnetic emissions

Guidance and manufacturer's declaration - electromagnetic emissions		
The model Maxso E800P is intended for use in the electromagnetic environment specified below. The customer or the user of the model Maxso E800P should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment -guidance
RF emissions CISPR 11	Group 1	The model Maxso E800P uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.

RF emissions CISPR11	Class B	The model Maxso E800P is suitable for used in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies	

Technical Description Concerning Electromagnetic Immunity
Table 2: Guidance & Declaration - electromagnetic immunity

Guidance & Declaration — electromagnetic immunity			
The model Maxso E800P is intended for use in the electromagnetic environment specified below. The customer or the user of the model Maxso E800P should assure that It is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±8kV contact ±2, ±4, ±8, ±15kV air	±8kV contact ±2, ±4, ±8, ±15kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electric fast transient/burst IEC 61000-4-4	±2kV for power supply lines ±1kV for Input/ output lines	±2kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±0.5, ±1kV line to line ±0.5, ±1, ±2kV line to earth	±0.5, ±1kV line to line ±0.5, ±1, ±2kV line to earth	Mains power quality should be that of a typical commercial or hospital environment.

Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5 % UT (>95% dip in UT.) for 0.5 cycle <5 % UT (>95% dip in UT.) for 1 cycle 70% UT (30% dip in UT) for 25 cycles <5% UT (>95 % dip in UT) for 250 cycles	<5 % UT (>95% dip in UT.)for 0.5 cycle <5 % UT (>95% dip in UT.) for 1 cycle 70% UT (30% dip in UT) for 25 cycles <5% UT (>95 % dip in UT) for 250 cycles	Mains power quality should be that of a typical commercial or hospital environment. If the user of the models Maxso E800P requires continued operation during power mains interruptions, it is recommended that the models Maxso E800P be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30A/m	30A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE UT is the a.c. mains voltage prior to application of the test level.			

Table 3: Guidance & Declaration - electromagnetic immunity concerning Conducted RF & Radiated RF

Guidance & Declaration - Electromagnetic immunity
The model Maxso E800P is intended for use in.the electromagnetic environment specified below. The customer or the user of the models Maxso E800P should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6 Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 6 Vrms ISM frequency band 3 V/m 80 MHz to 2.7 GHz	3V 6V 3V/m	Portable and mobile RF communications equipment should be used no closer to any part of the models Maxso E800P, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance d=1.2×P1/2 d=2×P1/2 d=1.2×P1/2 80 MHz to 800 MHz d=2.3×P1/2 800 MHz to 2.7 GHz where P is the maximum output power rating of the transmitter In watts (W) according to the transmitter manufacturer and d Is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,a should be less than the compliance level in each frequency range.b Interference may occur In the vicinity of equipment marked with the following symbol: 
NOTE I At 80 MHz end 800 MHz. the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

A Field strengths from fixed transmitters, such as base stations for radio (cellular/ cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the model Maxso E800P is used exceeds the applicable RF compliance level above, the model Maxso E800P should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the model Maxso E800P. b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3V/m.

Table 4: Recommended separation distances between portable and mobile RF communications equipment and the model Maxso E800P

Recommended separation distances between portable and mobile RF communications equipment and the model Maxso E800P			
The model Maxso E800P is intended for use in electromagnetic environment in which radiated RF disturbances is controlled. The customer or the user of the model Maxso E800P can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the model Maxso E800P as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150kHz to 80MHz	80MHz to 800MHz d=1.2×P1/2	800MHz to 2,7GHz d=2.3×P1/2
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) accordable to the transmitter manufacturer. NOTE I At 80 MHz and 800 MHz. the separation distance for the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

14. Beyes Limited Warranty Statement

From purchase date, based on warranty registration, we will repair this equipment free of charge if there are any quality issues experienced. Please refer to the warranty card for the warranty period.

14.1 SCOPE OF WARRANTY
BEYES Dental Canada Inc. warrants to the original retail purchaser that it will be at BEYES option to repair or replace components of the dental products manufactured by BEYES (except for components not warranted under 'Exclusions') that are defective in material or workmanship under normal use and service. BEYES' obligation under this limited warranty is limited to the repair or replacement of the applicable components. This limited warranty shall only apply to defects that are reported to BEYES within the applicable warranty period and which, upon examination by Beyes, prove to be defective. This warranty extends only to the first retail purchaser of a product and is not transferable or assignable. Replacement components or products may be used and/or refurbished components or products, provided they are of like quality and specifications as new components or products.

14.2 APPLICABLE WARRANTY PERIOD
The applicable warranty period, measured from the date of invoice to the original user, shall be warranted for a period of 25 months.

14.3 EXCLUSIONS
This limited warranty does not cover and BEYES shall not be liable for the following;
1. Defects, damage or other conditions caused, in whole or in part, by misuse, abuse, negligence, alteration, accident, freight damage, negligent storage, tampering or failure to seek and obtain repair or replacement in a timely manner;
2. Products which are not installed, used, and properly cleaned and maintained as required or recommended in the BEYES 'Installation' and/or 'Installation/ Operation Manual' for the applicable product, including the specified structural and operational environment conditions and electrical power requirements;
3. Products considered to be of a consumable or sterile nature;
4. Accessories or parts not manufactured by BEYES;
5. Charges by anyone for adjustments, repairs, replacement parts, installation or other work performed upon or in connection with such products which are not expressly authorized in writing in advance by BEYES;
6. Costs and expenses of routine maintenance and cleaning;
7. Representations and warranties made by any person or entity other than BEYES;
8. Matching of color, grain or texture except to commercially acceptable standards;
9. Changes in color caused by natural or artificial light;
10. Custom manufactured products;
11. Alterations or modifications to the product by any person or entity other than BEYES;
12. Products that would otherwise by covered under Sections 1 and 2 of this limited warranty, but are acquired: (i) from a person or entity that is not BEYES or one of its authorized dealers; or (ii) from a BEYES dealer that is not authorized to sell the product at issue in the geographic territory where the purchaser is located, or is not authorized to sell the product at issue within the medical, animal health or dental market, as the case may be, in which purchaser intends to use the product.

14.4 EXCLUSIVE REMEDY; CONSEQUENTIAL DAMAGES DISCLAIMER
Beyes' obligation under this limited warranty is the repair or replacement of defective parts. Beyes shall not be liable for and hereby disclaims any direct, special, indirect, incidental, exemplary or consequential damages or delays, including, but not limited to, damages for loss of profits or income, loss of use, downtime, cover and employee or independent contractor wages, payments and benefits.

14.5 WARRANTY DISCLAIMER
This limited warranty is beyes only warranty and is in lieu of all other warranties, express or implied. Beyes makes no implied warranties of any kind including any implied warranties of merchantability or fitness for a particular purpose. This warranty is limited to the repair or replacement of defective parts.

14.6 STATUE OF LIMITATIONS
No actions may be brought against beyes for breach of this limited warranty, or implied warranty, if any, or for any other claims arising out of or relating to the products, more than ninety (90) days following expiration of the limited warranty period.

Beyes
CANADA

Federal law restricts this device to sale by or on the order of a dentist, physician, or any other practitioner licensed by the law of the states in which he or she practices to use or order the use of this device.

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