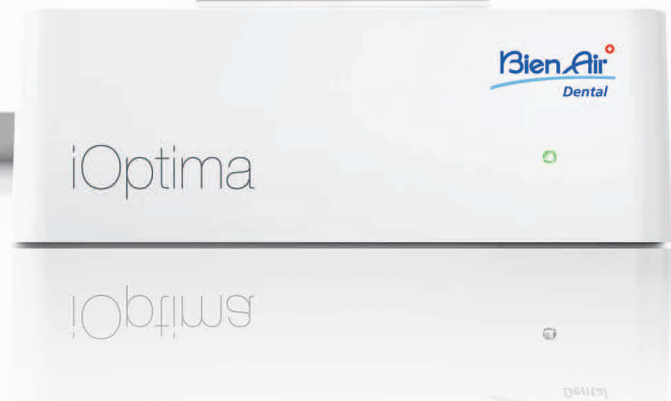


iOptima

ENG Instructions for use



0120 Rx Only

Printed in Switzerland REF 2100279-0000

Set iOptima REF 1700544-001



1x
REF 1600926-001



1x
REF 1600677-001



1x
REF 1600762-001



1x
REF 1501938-001

Set iOptima REF 1700547-001



1x
REF 1600926-001



1x
REF 1600762-001



1x
REF 1501938-001

Options





















1x
REF 1600036-006

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1 Symbols

1.1 Description of symbols

Symbol	Description
	CE Marking with number of the notified body.
	Manufacturer.
	Reference number.
	Serial number.
	Caution: Federal law restricts this device to sale by or on the order of a licensed healthcare practitioner.
	Recyclable electrical and electronic materials.
	Refer to the accompanying documents.
	Recyclable materials.
	CAUTION!
	Interference may occur in the vicinity of equipment marked with this symbol.
	Alternate current.
	Electrical security. Applied part type B.
	Main switch - Power OFF.
	Main switch - Power ON.
	Sound alerts.
	Move fully to the stop, in the direction indicated.
	4-hole connection and 4 electric (4VLM).
	4-hole connection (4way).

2 Identification and Intended use

2.1 Identification

Electronically controlled unit for dentistry allowing operation of an MX2 micromotor with variable speed using the dental unit pedal.

It is essential to connect a compatible iPod Touch® using the lightning connector provided for this purpose.

The iOptima unit provides power to the iPod device as soon as the iPod is connected to it. Under normal use (power supply = 32Vdc), iOptima unit does not use any battery energy of the iPod.

The iOptima unit charges the iPod battery when connected.

The restorative and endodontics parameters are defined before operation using the iOptima application installed on the iPod.

The iOptima application indicates the operation steps, the ratio of the handpiece, tool speed, torque value, light intensity, footpedal mode and the MX2 micromotor rotation direction. iOptima application is compatible with Apple iOS operating system.

CAUTION

The predefined torque and speed values are only intended as a guide. They must be adapted according to the IFU for the specific files used.

2.2 Intended use

Product intended for professional use only.

The iOptima system is intended for use in general dentistry, restorative dentistry and endodontics work by dentists and dental professionals in a dental office.

Any use other than that for which this product is intended is unauthorized and may be dangerous.

3 Warnings & Precautions of Use

⚠ CAUTION

This unit is not designed for use in an explosive atmosphere (anesthetic gas).

⚠ CAUTION

To prevent any risk of electric shock, this unit must be connected only to a power supply network provided with a protective earth.

⚠ CAUTION

The power plug is the device used for disconnection in case of problems, it must be easily accessible at all times.

⚠ CAUTION

Never connect a handpiece on a running micromotor.

⚠ CAUTION

The iPod Touch® must never be disconnected from the iOptima dental unit during operation!

⚠ CAUTION

The parameters contained in the dental procedures are given for information ONLY.

Bien-Air Dental SA cannot be held liable for them.

Note 1

NOTES

1 The predefined parameters may be subject to modification without notice.

4 Description

4.1 iOptima system overview

The iOptima system consists of:

- iOptima unit (3) with docking station for iPod Touch® and lightning connector (4);
- A MX2 dental micromotor (11) and MX2 hose (9, **A**);
- A pneumatic 4VLM connection input as speed reference (6, **B**);
- A power supply (2) and plug cord (**C**).



FIG. 1

- | | |
|---|---|
| (1) Power supply cord | (7) Power input connector (with lock) (C) |
| (2) Power Supply (C) | (8) Main power switch |
| (3) iOptima unit | (9) MX2 micromotor hose (A) |
| (4) iPod Touch® [not provided in set] | (10) iOptima status light (green power on) |
| (5) MX2 micromotor hose output (A) | (11) MX2 micromotor |
| (6) 4-way connector input, air and water inlet from your pneumatic unit (B) | (12) Handpiece [not provided in set] |
| | (13) Dental unit with pedal (B) [not provided in set] |

4.2 Set supplied

iOptima set REF 1700544-001

Designation	REF number
iOptima unit (1x)	1600926-001
MX2 Micromotor (1x)	1600677-001
MX2 Micromotor hose (1x)	1600762-001
Power supply (1x)	1501938-001
3P cable system, Switzerland, length 2.00 m (1x)	1300065-001
3P cable system, Europe, length 2.50 m (1x)	1300066-001
3P cable system, US/Asia, length 2.00 m (1x)	1300067-001

iOptima set REF 1700547-001

Designation	REF number
iOptima unit (1x)	1600926-001
MX2 Micromotor hose (1x)	1600762-001
Power supply (1x)	1501938-001
3P cable system, Switzerland, length 2.00 m (1x)	1300065-001
3P cable system, Europe, length 2.50 m (1x)	1300066-001
3P cable system, US/Asia, length 2.00 m (1x)	1300067-001

4.3 Options

Designation	REF number
Spraynet, cleaning spray 500 ml, box of 6 cans	1600036-006

4.4 Technical data

Dimensions L x W x H

iOptima unit.....	125 x 145 x 75 mm
iOptima unit (with iPod).....	125 x 145 x 160 mm
MX2 hose	L 1.7 m
MX2 micromotor (including nose).....	∅ 21 x L 73.5 mm
Power Supply	130 x 75 x 45 mm

Weight

iOptima unit.....	0.4 kg
Power Supply	650 g
MX2 micromotor.....	94 g

Electrical and pressure data

Voltage.....	100-240 VAC
Frequency	47-63 Hz
Nominal power.....	90 W
Max. input power.....	160 W
Input pneumatic pressure	5 bar / 72.5 psi

Environmental conditions

Environmental conditions	Operating	Transport and storage (max. 15 weeks)
Temperature	+10°C (50°F) to +25°C (77°F)	-25°C (-13°F) to +70°C (158°F)
Relative humidity	30% to 80%	10% to 100%
Atmospheric pressure	700 hPa to 1060 hPa	500 hPa to 1060 hPa
Altitude	0 to 3'048 m (0 to 10'000 ft)	-

⚠ CAUTION

Do not use iOptima outside the range of operating temperature.

Classification

Class IIa in accordance with European Directive 93/42/EEC concerning medical devices.

Electric insulation class

Class I per IEC 60601-1 (apparatus protected against electric shocks).

Degree of protection

IP 40 (protection against insertion of objects larger than 1 mm)

Memory

- Restorative
Storage of 10 user-defined Operations
- Endodontics
Storage of 10 user-defined Brands
Storage of 10 user-defined Systems
Storage of 8 Files per System including adjustment of speed and torque values for each file

List of errors & Troubleshooting

See chapter "10 List of errors & Troubleshooting" on page 34.

Important: Consult the Instructions for Use of the following devices:

Micromotor MX2 LEDSee doc. REF 2100199

Hose MX2 Grey.....See doc. REF 2100223

4.5 Environmental protection and information for disposal



The disposal and/or recycling of materials must be performed in accordance with the legislation in force.



This unit and its accessories must be recycled. Electrical and electronic equipment may contain dangerous substances which constitute health and environmental hazards. The user must return the unit to its dealer or establish direct contact with an approved body for treatment and recovery of this type of equipment (European Directive 2002/96/EC).

4.6 Limitation of liability

Bien-Air Dental SA shall not be held liable for any non-compliant use of the iPod®.

The conditions for and restrictions on use set by Apple must be respected (jailbreak, hardware modification, etc.).

To ensure optimum operation of Bien-Air Dental iPod application, updates for the iOS must be according to validated version and the latest Bien-Air Dental iPod application updates must always be installed.

4.7 Electromagnetic compatibility (technical description)

Precautions regarding Electromagnetic Compatibility (EMC)

Electro-medical equipment needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in this document.

CAUTION

Dental professionals need to be aware of potential electromagnetic interference between electronic dental devices and active implantable medical devices, and should always inquire about any devices implanted in the patient.

CAUTION

iOptima complies with the EMC requirements according to IEC 60601-1-2. Radio transmitting equipment, cellular phones, etc. shall not be used in close proximity to the unit since they could influence the performance of the unit. Special precautions must be taken when using strong emission sources such as High Frequency surgical equipment and similar equipment so that the HF cables are not routed on or near the unit. If in doubt, please contact a qualified technician or Bien-Air Dental SA.

iOptima should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, iOptima should be monitored to verify normal operation in the configuration in which it will be used.

CAUTION

The use of accessories, transducers and cables other than those specified, with the exception of transducers and cables sold by Bien-Air Dental SA as replacements parts for internal components, may result in increased emissions or decreased immunity of iOptima.

Guidance and manufacturer's declaration - electromagnetic emissions


iOptima is intended for use in the electromagnetic environment specified below.

The customer or the user of iOptima should ensure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	iOptima uses RF energy only for its internal function. CISPR 11 Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	iOptima is suitable for use 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	Compliant	
Voltage fluctuations/flicker emissions IEC 61000-3-3	Not applicable	

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for lines no input/output	±2 kV for power supply lines ±1 kV for lines no input/output	Mains power quality should be that of a typical commercial or hospital environment.
Shock waves IEC 61000-4-5	±0.5 kV line to line ±1 kV line to line ±0.5 kV line to earth ±1 kV line to earth ±2 kV line to earth	±0.5 kV line to line ±1 kV line to line ±0.5 kV line to earth ±1 kV line to earth ±2 kV line to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips and outages IEC 61000-4-11	<5% U_T (>95% dip in U_T) for 0.5 cycle 40% U_T (60% dip in U_T) for 5 cycles 70% U_T (30% dip in U_T) for 25 cycles <5% U_T (>95% dip in U_T) for 5 sec	<5% U_T (>95% dip in U_T) for 0.5 cycle 40% U_T (60% dip in U_T) for 5 cycles 70% U_T (30% dip in U_T) for 25 cycles <5% U_T (>95% dip in U_T) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of iOptima requires continued operation during power mains interruptions, it is recommended that iOptima be powered from an uninterruptible power supply or a battery.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
<p>Note : U_T is the a.c. mains voltage prior to application of the test level.</p> <p>Essential performance: The essential performance is the maintaining of the visual lighting intensity of the LED and the maintaining of motor speed. Maximum allowed speed deviation is $\pm 5\%$.</p>			

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 V	<p>Portable and mobile RF communications equipment should be used no closer to any part of iOptima, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance</p> $d = 1.2\sqrt{P}$ <p>80 MHz to 800 MHz</p> $d = 1.2\sqrt{P}$ $d = 2.3\sqrt{P}$ <p>800 MHz to 2.5 GHz</p> <p>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: </p>
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2,5 GHz	3 V/m	

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 iOptima is used exceeds the applicable RF compliance level above, the iOptima should be observed to verify normal operation.

If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the iOptima.

b. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Note 1 - 2

Recommended separation distances between portable and mobile RF communications equipment and the iOptima

The iOptima is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the iOptima can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the iOptima 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]		
	150 kHz to 80 MHz $d = 1.2\sqrt{P}$	80 MHz to 800 MHz $d = 1.2\sqrt{P}$	800 MHz to 2.5 GHz $d = 2.3\sqrt{P}$
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) according to the transmitter manufacturer.

Note 1 - 2

NOTES

- 1 At 80 MHz and 800 MHz, the higher frequency range applies.
- 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.



FIG. 1

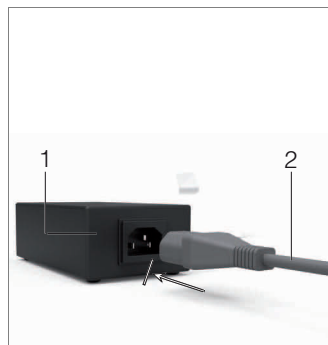


FIG. 2



FIG. 3

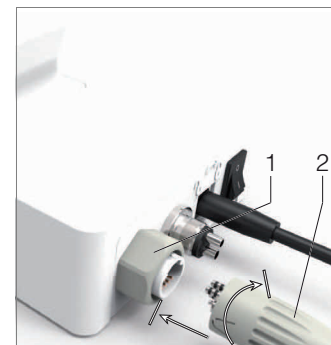


FIG. 4

5 Installation

5.1 Install the iOptima app

- A. Open the "App Store", tap the corresponding icon on the iPod.
- B. Tap Search to find the iOptima application.
- C. Install the iOptima application designed by Bien-Air Dental.

Note 1

5.2 Install the iOptima system

⚠ CAUTION

Before installing, please read carefully this product instruction.

Note 2

FIG. 1

- A. Place the iOptima on a flat surface capable of bearing its weight.

⚠ CAUTION

It may be positioned on a table, on a trolley or any another surface but in no circumstances on the floor.

FIG. 2

- B. Connect the power cord (2) to the power supply (1) and plug to the mains.

Note 3

⚠ CAUTION

The power plug is the device used for disconnection in case of problems, it must be easily accessible at all times.

FIG. 3

- C. Connect the power supply cable (1) to the input connector (2) and turn right to lock.

⚠ CAUTION

Ensure that the power switch (3) is off «0».

⚠ CAUTION

Before connecting the MX2 cable ensure that all o-rings are correctly fitted and connectors are clean of dust.

FIG. 4

- D. Connect the MX2 cable plug (2) to the output connector (1):
 - First sleeve up and carefully and firmly insert the cable plug, by guiding the connector and plug with the index pin on the connector;
 - Sleeve down and tighten (CW).

FIG. 5

- E. Connect the MX2 cable (2) to the MX2 micromotor (1), by guiding the connector and plug with the index pin on the connector and tighten (CW).



FIG. 5

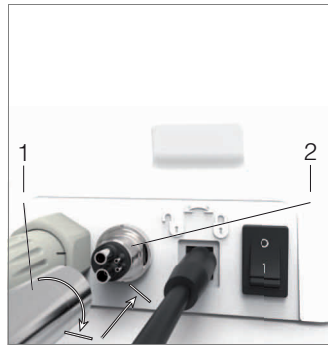


FIG. 6

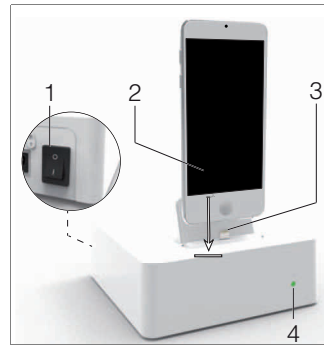


FIG. 7

F. Connect your handpiece to the MX2 micromotor (1). Refer to your handpiece instruction for details.

⚠ CAUTION

Never connect a handpiece on a running micromotor.

FIG. 6

G. Connect the 4-way connector (1), air and water inlet from the unit to the iOptima socket (2):

- First sleeve up and carefully and firmly insert the cable plug, by guiding the connector and plug with the index pin on the connector;
- Sleeve down and tighten (CW).

FIG. 7

H. Connect the interface device «iPod» (2) to the iOptima carefully sliding it along the lightning adapter (3).

I. Switch on the water and power supply of the dental unit (refer to your dental unit instructions).

J. Switch on «I» the iOptima.

👉 The led (4) turns green (power on).

👉 The iOptima is ready for use.

See chapter "6 Interface overview" on page 14.

NOTES

1 The iPod must be correctly connected to a Wi-Fi network before the App Store is opened; refer to Apple's user guide for appropriate use of the iPod.

2 In order to conform to the IEC 60601-1-2 standards, take into account the different routes of the wires through the system (bend, fold, section etc) (see chapter "4.1 iOptima system overview" on page 5 and only use the power supply provided with the iOptima. In order to maintain warranty, this unit must be installed with the greatest care. Follow all the necessary instructions. Protect the unit from direct sunlight and dust. Keep the original packaging for storage and shipment.

3 The equipment is powered by your mains power supply (100-240 VAC).



FIG. 1 (iPod Touch®)

6 Interface overview

6.1 iOptima application

The iOptima application allows to select predefined endodontics' system operations and restorative operations.

The predefined sequences and restorative operation can be modified and additional endodontics sequences and restorative operations can be created or removed.

It is not possible to remove/delete the predefined operations, but it is possible to restore the default values.

6.1.1 Compatibility

The iOptima application is compatible with iPod Touch®.

6.1.2 Notation

In order to simplify the notation, in this manual:

- interface device «iPod Touch® is referred to as «iPod»;
- iOptima application is referred to as «iOptima app»;
- Restorative and Endodontics modes are referred to as «Resto» and «Endo».

6.2 Sound alerts



Sound alert	Description
One long beep	Entering in endodontics or restorative mode
	ENDO mode when selecting the first File
Alternate short beeps	Warning notifications
Alternate medium beeps	MX2 micromotor REVERSE running indicator
	ENDO mode when the MX2 micromotor is running in reverse
Alternate long beeps	System failure notification

6.3 iPod and iOptima connection / disconnection conditions

6.3.1 Disconnection

As long as the iPod is disconnected, the iOptima system is in standby mode (MX2 micromotor stopped).

It is only possible to navigate, modify and create settings with the iOptima app.

It is not possible to operate.

CAUTION

The iPod must never be disconnected from the iOptima dental unit during operation! If the iPod is disconnected during an operation, the MX2 micromotor stops within 1second.

6.3.2 Connection

The MX2 micromotor can start only when the iPod is connected and the application is in operative mode.

CAUTION

If the footpedal is pressed before entering in operative mode, a warning message «Please release the pedal...» will be displayed. The MX2 micromotor will not start to run until the footpedal is released and pressed again.

6.3.3 iOptima unit switched ON

If the iOptima app is running and the iPod plugged to the iOptima (switch ON):

- The iPod will charge up (even if the app is not running);
- The sleep mode is deactivated;
- The MX2 micromotor can be operated with the pedal (iOptima app in operative mode).

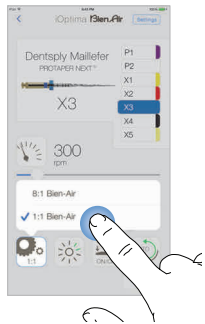


FIG. 1

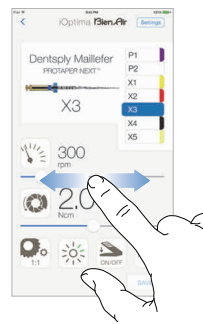


FIG. 2

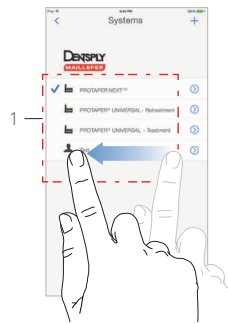


FIG. 3

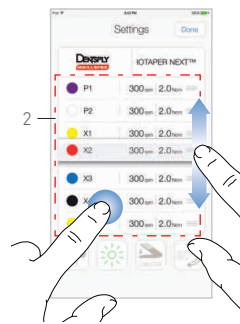


FIG. 4

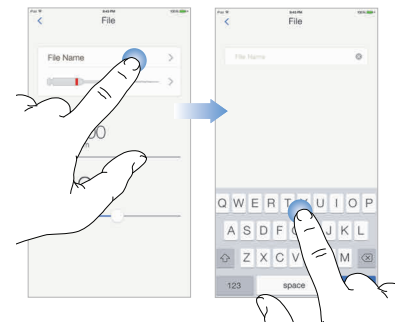


FIG. 5

7 Getting started

7.1 Back up data

Use iTunes or iCloud to automatically back up your iOptima application user-defined settings.

Refer to Apple's user guide for appropriate use of the iPod, iTunes or iCloud.

7.2 Use of the Touch screen

The iOptima application is operated with the iPod Touch® screen with a few simple gestures:

FIG. 1

- **Tap** to click.

FIG. 2

- **Slide** to scroll and adjust parameters.

FIG. 3

- **Swipe** to restore or remove parameters.

Note 1

FIG. 4


- **Long tap** to access the drag and drop function;

Note 2

- **Drag**  **and drop** to sort files.

7.2.1 Display onscreen keyboard

FIG. 5

- Tap a text field to display the onscreen keyboard;
- Type characters with the onscreen keyboard (tap  to delete all characters).

7.3 Launch iOptima app

FIG. 6

- Make sure that the sound volume on your iPod is ON and set to an appropriate level according to the ambient noise of the room:
 - Volume down (1) and up (2).
- Close all other applications in order not to disrupt the operation:
 - Double-click the home button (6) to show the multitasking display and drag the app up to close.
 - Click the home button again to return to the main screen.
- Deactivate all alerts. Refer to Apple's user guide for appropriate use of the iPod.
- Ensure that the latest application updates have been installed (see chapter "7.6 iOptima App update" on page 18).
- Tap the app icon (5) to launch the iOptima application.

Note 3

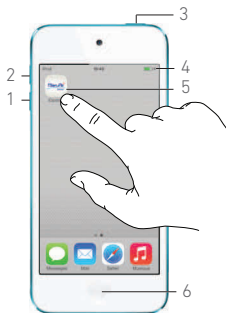


FIG. 6

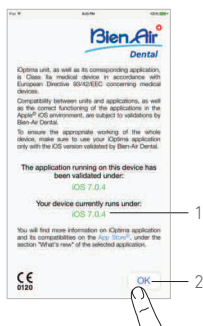


FIG. 7

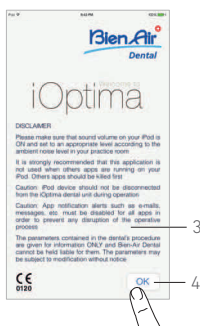


FIG. 8

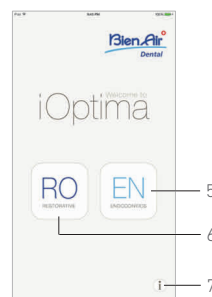


FIG. 9

7.4 Welcome screen and disclaimer

- A. To ensure the appropriate working of the iOptima Dental unit, make sure to only use your iOptima application with the iOS version validated by Bien-Air Dental.7

FIG. 7

☞ Refer to the current version of your device (1).

See also chapter “10.3 iOS compatibility errors (disclaimer screen)” on page 35.

For more information go to the App Store © under «what’s new» of the selected application.

FIG. 7 - FIG. 8

B. Tap **OK** (2) to acknowledge disclaimer message and access the **DISCLAIMER** message second screen (3).

C. Make sure to have set all steps of disclaimer (3) and tap **OK** (4), see chapter “7.3 Launch iOptima app” on page 16 for details.

☞ The Welcome screen is displayed.

FIG. 9

D. Tap **RO** (6) to enter the restorative mode.

See chapter “8.1 Enter Restorative mode” on page 20.

E. Tap **EN** (5) to enter the endodontics mode.

See chapter “9.1 Enter Endodontics mode” on page 26 for details.

F. Tap **i** (7) to open the **Information** screen.

See chapter “7.5 Information” on page 18 for details.



NOTES

- 1 The swipe gesture is only active in the delimited area (1).
- 2 Long tap is active only in ENDO mode Settings screen area zone (2).
- 3 If not using your iPod, press the Sleep/Wake button (3) to lock it.



FIG. 10

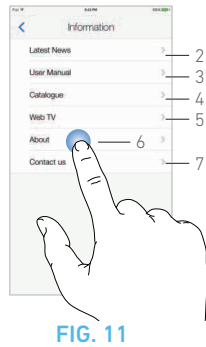


FIG. 11

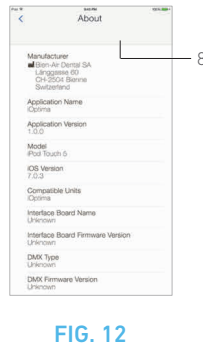


FIG. 12

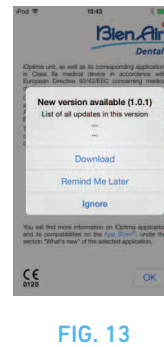


FIG. 13

7.5 Information

FIG. 10

- A. Tap **i** (1) to access Bien-Air (catalogue, new products, etc.) and iOptima (User Manual and About) information screen.

FIG. 11

The information screen allows to navigate to the following pages:

- **Latest news** (2) (opens Bien-Air website latest news page);
- **User manual** (3) (application detects the language of the iPod and downloads the User Manual in the same language);

Note 4

- **Catalogue** (4) (opens online catalogue (pdf file));
- **Web TV** (5) (opens Bien-Air web TV);
- **About** (6) (displays About screen (8) with iOptima system and Bien-Air factory information);
- **Contact us** (opens email application with predefined email address iOptima@bienair.com).

Note 5

7.6 iOptima App update

When the application is launched, it will check whether a new version is available on the App Store.

If a new update is available, a message box will be displayed on Disclaimer screen to notify the user should download the application.

Note 6

Three buttons are available according to new version update category in the message box displayed:

- **Download:** user can automatically access App Store application page.
- **Remind Me Later:** user can delay the update and continue to work with currently installed app version (the message appears once a day).
- **Ignore:** User can ignore the update and continue to work with currently installed app version (the message reappears only if a new version is available).

NOTES

- 4** If the User Manual is not available in the correct language, the English manual is downloaded.
- 5** Latest News, Catalogue, Web TV and Contact us functions are available only if the iPod is connected to a Wi-Fi network.
- 6** This function is active only when the iPod is connected to a wireless network.



FIG. 1

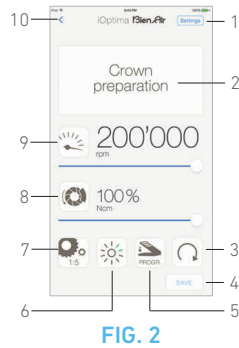


FIG. 2



FIG. 3

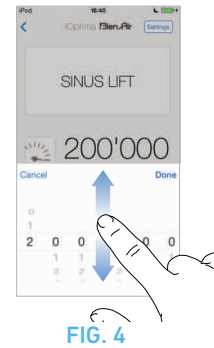


FIG. 4



FIG. 5

8 Operation - Restorative mode

8.1 Enter Restorative mode

FIG. 1

Tap **RO** to enter the restorative mode. Predefined restorative operations are available by default, it is possible to modify and restore them. It is possible to create and delete User-defined operations.

Note 1 - 2

8.2 Operative screen description

FIG. 2

The operative screen displays the selected operation type and settings:

- (1) **Settings** (access to operation types and settings)
- (2) Selected operation type
- (3) MX2 micromotor rotation mode: FORWARD and REVERSE
- (4) **Save** (customize settings)
- (5) Footpedal mode: PROGRESSIVE or ON/OFF mode
- (6) Light intensity
- (7) Handpiece ratio
- (8) Maximum MX2 micromotor torque in %
- (9) Maximum MX2 micromotor speed in rpm
- (10) Back to the previous screen

Note 3

See chapter "8.3 Standard Use - Operating mode (Start)" on page 22.

8.2.1 MX2 micromotor Speed & Torque

FIG. 3

Slide to adjust the maximum speed and torque values.



Or tap the icons   to activate the wheel scroller.

FIG. 4

Slide to precisely adjust the motor speed and torque values and tap **Cancel** or **Done** to validate.

FIG. 5

When the power demand of the MX2 micromotor is excessive, the operative screen displays the overheating symbol . In this case the iOptima unit automatically lowers the torque in order to avoid overheating of the MX2 micromotor. To restore 100% torque, allow the motor to idle or stop for a few seconds.

8.2.2 Handpiece ratio

FIG. 6

Tap and select the handpiece ratio.

CAUTION

Verify that the handpiece corresponds to your selection.

Note 4

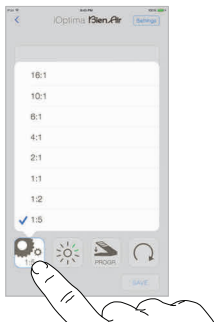


FIG. 6

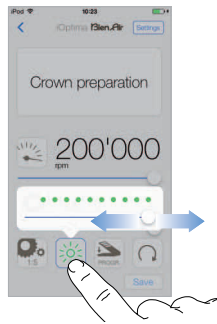


FIG. 7



FIG. 8

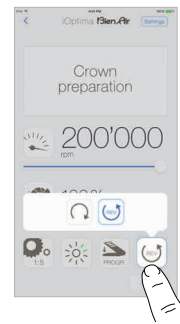


FIG. 9

8.2.3 Light intensity

FIG. 7

Slide or tap the appropriate dot to set up the light intensity of the MX2 micromotor.

11 levels of adjustment are possible:

- light OFF, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90% and 100% of the max light intensity value.

Note 5 - 6

8.2.4 Footpedal mode

FIG. 8

Tap and select the footpedal mode:

- **ON/OFF** (1): The speed consign is equal to the maximum speed once the footpedal is pressed; whatever the pressure on it.
- **Progressive** (2): The speed consign value is (linear) function to the pressure on it.

Note 7

8.2.5 MX2 micromotor rotation direction

FIG. 9

Tap and select the rotation mode of the MX2 micromotor:

- **Forward** (clockwise)
- **Reverse** (counterclockwise).

Note 8 - 9

NOTES

- 1 In restorative mode, the air spray is always switched ON by the help of the electro-valve integrated in the iOptima unit.
- 2 In this chapter, the restorative mode listed above is referred to as RESTO in order to simplify the notation.
- 3 All parameters can be changed and saved directly in the operative screen.
- 4 The operative screen always displays the selected handpiece ratio.
- 5 The light intensity value is set for each operation. The default value of the light intensity is 100%.
- 6 The operative screen always displays the selected light intensity value.
- 7 The operative screen always displays the selected footpedal mode.
- 8 In reverse mode (CCW), the symbol flashes and there is a sound alert (alternate medium beeps).
- 9 The operative screen always displays the selected rotation direction.



FIG. 10

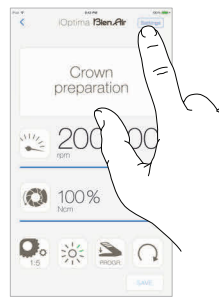


FIG. 11

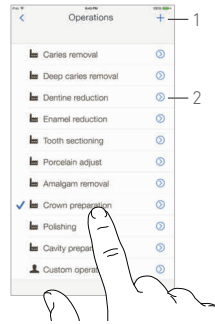


FIG. 12



FIG. 13

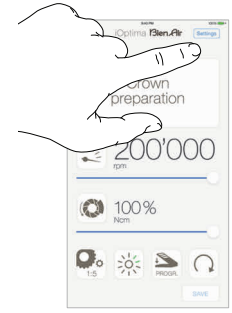


FIG. 14

8.3 Standard Use - Operating mode (Start)

FIG. 10

A. Tap **RO** to enter the RESTO mode, the operative screen opens.

FIG. 11

B. Tap **Settings** to open the **Operations** screen.

FIG. 12

C. Tap to select an operation type.

↳ The App navigates back to the operative screen.

D. Operate with the pedal to switch the micromotor ON.

⚠ CAUTION

If the footpedal is pressed before entering in operative mode, a warning message «Please release the pedal...» will be displayed. The MX2 micromotor will not start to run until the footpedal is released and pressed again.

Note 10

See chapter "8.4 Customize default operations" on page 22, for details.

FIG. 13

Note 11 - 12

- Slide to adjust the MX2 micromotor speed and torque values of the selected operation.
- Adjust the handpiece ratio, light intensity, footpedal mode or rotation direction of the selected operation.
- Tap **Save** (3) to validate the new settings.

Note 13

8.4 Customize default operations

FIG. 14

A. From the operative screen, tap **Settings** to open the **Operations** screen.

FIG. 15

B. Tap ⌕ to customize an operation type.

↳ The **Operation** screen opens.

FIG. 16

C. Customize the operation settings.

D. Tap **Cancel** (2) or **Save** (3) to validate custom settings and tap back (1).

↳ If saved, the symbol  (factory predefined settings) changes to  (custom settings).

E. Select an operation.

↳ The app navigates back to operative screen.

8.4.1 Restore (default) and delete (user-defined) operations

FIG. 17

Swipe left to restore or delete.

Note 14 - 15

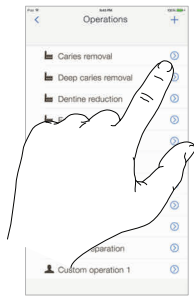


FIG. 15

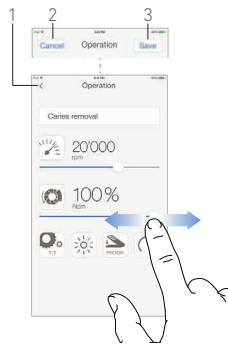


FIG. 16

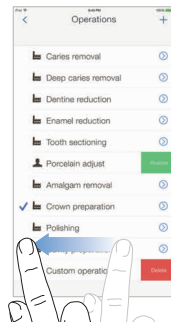


FIG. 17

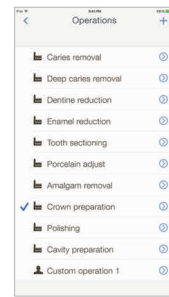


FIG. 18

8.4.2 Default Operations

FIG. 18



⚠ CAUTION

The parameters contained in the dental procedures are given for information ONLY.

Bien-Air Dental cannot be held liable for them.

Note 16

NOTES



10 To create new operations or to customize a predefined operation tap  (1) or  (2), FIG. 12.

11 When the MX2 micromotor is switched ON, the speed and torque values displayed in the operative screen FIG. 13, toggle from predefined values to real time values. Once the motor stops running, the speed and torque values displayed toggle back to maximum predefined values.

12 All parameters can be directly modified in the operative screen (only when the footpedal is released).

13 Modifications are discarded when leaving the operative screen without saving.

14 Predefined RESTO operations can not be deleted. But it is possible to restore the default values if modified. Only user-defined operations can be deleted.

15 Custom and user-defined operations are represented by . Default operations are represented by .

16 The predefined parameters may be subject to modification without notice.

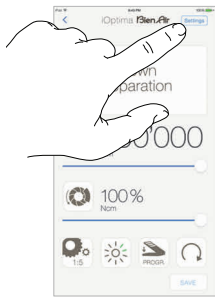


FIG. 19

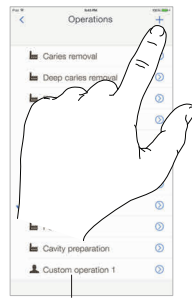


FIG. 20

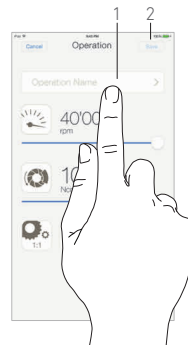


FIG. 21

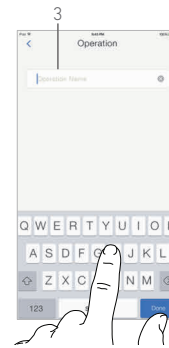


FIG. 22

8.5 Create new operations (user-defined)

FIG. 19

A. From the operative screen, tap **Settings** to open the **Operations** screen.

FIG. 20

B. Tap **+** to create a new operation type.

↳ The **Operations** screen opens.

Note 17

FIG. 21


C. Tap in the **Operation name** text field (1) to display the onscreen keyboard.

FIG. 22

D. Type the new **Operation name** (3) and tap **Done** (onscreen keyboard).

E. Set handpiece ration and operation settings.

F. Tap **Cancel** or **Save** (2) to validate user-defined operation and tap back, FIG. 21.

↳ If saved, the new operation is displayed in the **Operations** screen (4) with the symbol  (user-defined) beside it, FIG. 20.

G. Select an operation.

↳ The app navigates back to operative screen.

NOTES


17 Maximum storage of 10 user-defined operations, if exceeded the  icon disappears.



FIG. 1

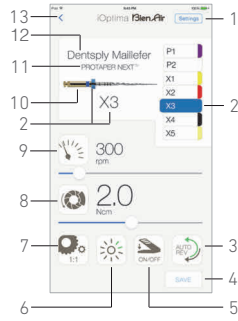


FIG. 2

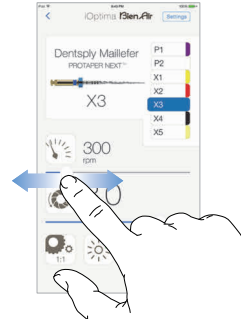


FIG. 3

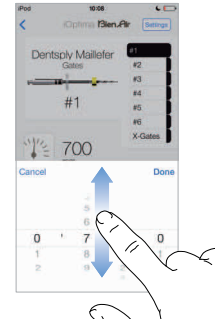


FIG. 4



FIG. 5

9 Operation - Endodontics Mode

9.1 Enter Endodontics mode

FIG. 1

Tap **EN** to enter the endodontics mode.

Predefined endodontics systems are available by default, it is possible to modify and restore them.

It is possible to create and delete User-defined endodontics brands, systems and files.

Note 1 - 2

9.2 Operative screen description

FIG. 2

The operative screen displays the selected operation brand, system type and file settings:

- (1) Access to brands, systems and file settings
- (2) File name and color designation of file according to ISO 3630-1 standard
- (3) MX2 micromotor rotation mode: FORWARD, AUTO-REVERSE, AUTO-FORWARD
- (4) Save (to customize settings)
- (5) Footpedal mode: PROGRESSIVE or ON/OFF mode
- (6) Light intensity
- (7) Handpiece ratio
- (8) Maximum MX2 micromotor torque in Ncm
- (9) Maximum MX2 micromotor speed in rpm

- (10) Figure of the file
- (11) File system name
- (12) File brand
- (13) Back to the previous screen

Note 3

9.2.1 MX2 micromotor Speed & Torque

FIG. 3

Slide to adjust the maximum speed and torque values.




Or tap the icons   to activate the wheel scroller.

FIG. 4

Slide to precisely adjust the motor speed and torque values and tap **Cancel** or **Done** to validate.

FIG. 5

When the power demand of the MX2 micromotor is excessive, the

operative screen displays the overheating symbol . In this case the iOptima unit lowers the torque automatically in order to avoid overheating of the MX2 micromotor.

To restore 100% torque, allow the motor to idle or stop for a few seconds.

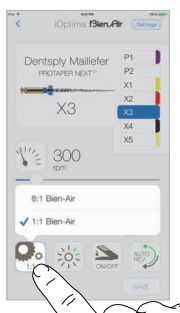


FIG. 6



FIG. 7



FIG. 8

9.2.2 Handpiece ratio

FIG. 6

Tap and select to modify the handpiece ratio.

⚠ CAUTION

Verify that the handpiece corresponds to your selection.

Note 4

9.2.3 Light intensity

FIG. 7

Slide or tap the appropriate dot to set up the light intensity of the MX2 micromotor.

11 levels of adjustment are possible:

- light OFF, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90% and 100% of the max light intensity value.

Note 5 - 6

9.2.4 Footpedal mode

FIG. 8

Tap and select the footpedal mode:

- **ON/OFF** (1): the speed consign is equal to the maximum speed once the footpedal is pressed; whatever the pressure on it.
- **Progressive** (2): The speed consign value is (linear) function to the pressure on it.

Note 7

NOTES

- 1 In endodontics mode, the air spray is always switched OFF by the help of the electro-valve integrated in the iOptima unit.
- 2 In this chapter, the endodontics mode listed above is referred to as ENDO in order to simplify the notation.
- 3 All parameters can be changed and saved directly in the operative screen.
- 4 The operative screen always displays the selected handpiece ratio.
- 5 The light intensity value is set for each operation. The default value of the light intensity is 100%.
- 6 The operative screen always displays the selected light intensity value.
- 7 The operative screen always displays the selected footpedal mode.

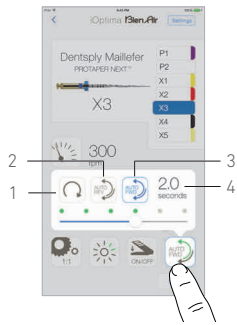


FIG. 9



FIG. 10

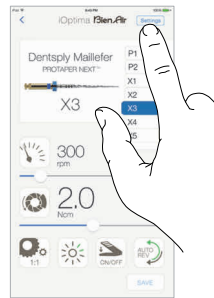


FIG. 11

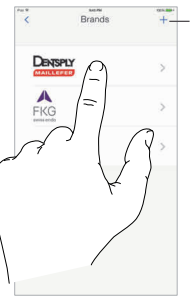


FIG. 12



FIG. 13

9.2.5 MX2 micromotor rotation direction

FIG. 9

Tap to select the rotation mode of the MX2 micromotor:

- **Forward** (clockwise) (1)
- **Auto-reverse** (2): the direction of rotation reverses automatically once the maximum torque set is reached (clockwise to counterclockwise).
- **Auto-forward** (3): the direction of rotation reverses automatically once the maximum torque set is reached (clockwise to counterclockwise).
In Auto-forward mode (reverse), the motor stops and reverses automatically after the time set (4): 0.5 to 3.0 seconds counterclockwise to clockwise).

Note 8 - 9

9.3 Standard Use - Operating mode (Start)

FIG. 10

A. Tap **EN** to enter the ENDO mode, the operative screen opens.

FIG. 11

B. Tap **Settings** to open the **Brands** screen,

FIG. 12

C. Tap to choose a brand, the **Systems** screen opens.

Note 10

See chapter "9.4 Customize settings" on page 28, for details.

FIG. 13

D. Tap to select a file system.

↳ The app navigates back to the operative screen, FIG. 14.

E. Operate with the pedal to switch the micromotor ON.

⚠ CAUTION

If the footpedal is pressed before entering in operative mode, a warning message «Please release the pedal...» will be displayed. The MX2 micromotor will not start to run until the footpedal is released and pressed again.

FIG. 14

F. Tap the file figure area to jump to the next file, parameters of the file system previously selected are automatically loaded (or directly tap the required file (3)).

Note 11 - 12

9.4 Customize settings

9.4.1 Customize default settings (operative screen)

FIG. 15

Note 13

A. Slide to adjust the MX2 micromotor speed and torque values of the selected file.

B. Adjust the handpiece ratio, light intensity, footpedal mode or rotation direction to customize settings for the selected file system.

C. Tap **Save** to validate the new settings.

Note 14

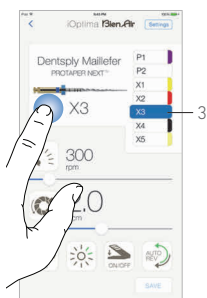


FIG. 14



FIG. 15

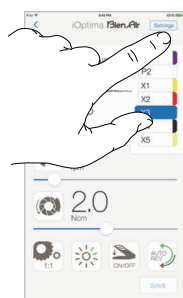


FIG. 16

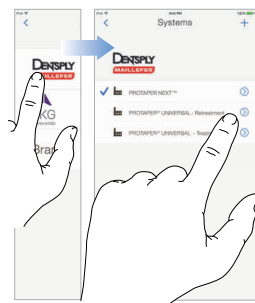


FIG. 17

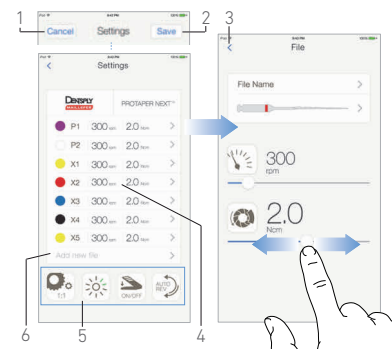


FIG. 18

9.4.2 Customize system settings

FIG. 16

A. Tap **Settings** to open the **Brands** screen.

FIG. 17

B. Tap a **Brand** to open the **Systems** screen.




C. Tap  to customize a file system, the **Settings** screen opens.

FIG. 18

D. Customize the file system settings:

- tap any file (4) to open the **File** screen and modify motor speed and torque values (tap (3) to go back);
- tap the icons (5) to modify the handpiece ratio, etc...;
- tap in the **Add new file** field (6) to create a new file, make a long tap to sort the files, or swipe left to remove existing files. See chapter "9.5 Add, sort or remove files" on page 30, for details.

E. Tap **Cancel** (1) or **Save** (2) to validate custom settings.

 If saved, the symbol  (factory predefined settings) changes to  (custom settings).



Note 15

See chapter "9.7 Create new Brands and Systems" on page 32, for details

NOTES

8 The operative screen always displays the selected rotation direction.

9 In reverse mode (CCW), the symbol flashes and there is a sound alert (alternate medium beeps).


10 To create new brands and systems or customize settings tap  (1) or  (2), FIG. 13.

11 When the MX2 micromotor is switched ON, the speed and torque values displayed toggle from predefined values to real time values. Once the motor stops running, the speed and torque values displayed toggle back to maximum predefined values.

12 All parameters can be directly modified in the operative screen (see chapter "9.4.1 Customize default settings (operative screen)" on page 28).

13 All parameters can be directly modified in the operative screen (only when the footpedal is released)

14 Modifications are discarded when leaving the operative screen without saving.

15 From the **Systems** screen it is also possible to chose a different brand and create a new system or a new brand with the  symbol.

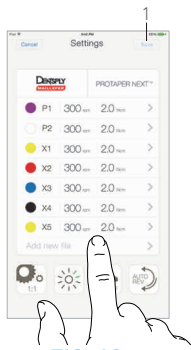


FIG. 19

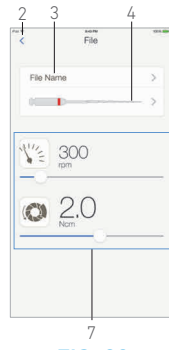


FIG. 20

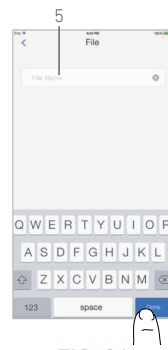


FIG. 21

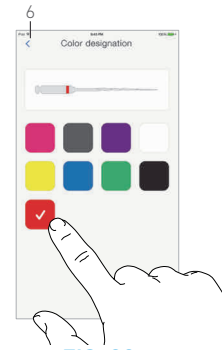


FIG. 22



FIG. 23

9.5 Add, sort or remove files

Note 16

9.5.1 Add new files

FIG. 19

A. Tap in the **Add new file** field to open the **File** screen.

FIG. 20 - FIG. 21

B. Tap in the **File name** field (3) to display the onscreen keyboard, type the new **File name** (5) and tap **Done** (onscreen keyboard).

FIG. 22

C. Tap the file figure (4) to display the **Color designation** screen, select a color for the new file and tap back (6) (color designation of file is according to ISO 3630-1 standard).

D. Adjust the MX2 micromotor speed and torque values (7), FIG. 20.

See "9.2 Operative screen description" on page 26, for details.

E. Tap back (2) and **Save** (1), FIG. 19.

9.5.2 Sort files

FIG. 23

A. Do a long tap on a file to activate the drag and drop function and display the icons ≡ (1).

B. Tap the icon ≡ to drag and drop the files.

FIG. 24

C. Tap **Done** (2) to validate.

9.5.3 Remove files

FIG. 25

A. Swipe left to remove existing files and tap **Save** or **Cancel**.

9.6 Restore (default) and delete (user-defined) systems

FIG. 26

Swipe left to restore or delete.

Note 17 - 18

9.6.1 Default Systems

FIG. 27

Dentsply Maillefer

FIG. 28

FKG swiss endo

⚠ CAUTION

The parameters contained in the dental procedures are given for information ONLY.

Bien-Air Dental cannot be held liable for them.

Note 19

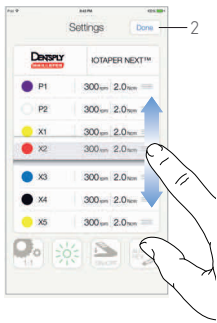


FIG. 24



FIG. 25

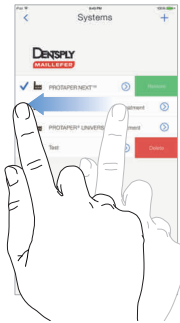


FIG. 26

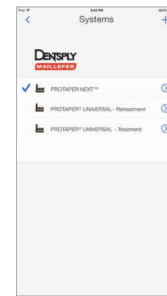


FIG. 27

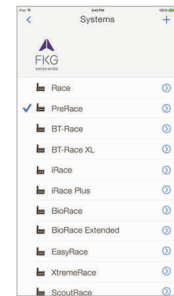




FIG. 28

NOTES

16 New files can be added, sorted or removed in default and user-defined files.

17 Predefined ENDO systems can not be deleted. But it is possible to restore the default values if modified. Only user-defined systems can be deleted.

18 Custom and user-defined systems are represented with the symbol . Default manufacturer files are represented by the symbol .

19 The predefined parameters may be subject to modification without notice.

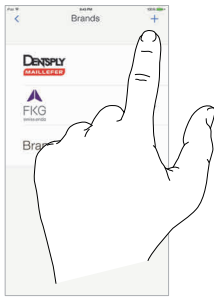


FIG. 29



FIG. 30

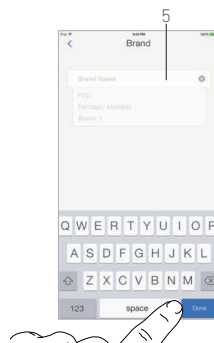


FIG. 31

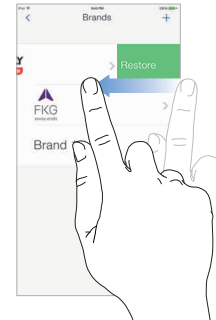


FIG. 32

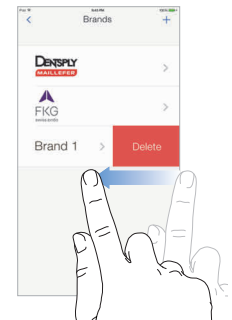


FIG. 33

9.7 Create new Brands and Systems

FIG. 29

A. Tap **+** to add a new brand or a new system, the **Settings** screen opens.

Note 20 - 21

FIG. 30

B. Tap in the **Brand** text field (1) to display the onscreen keyboard.

FIG. 31

C. Type the new **Brand name** (5) or select an existing brand from the drop-down list box and tap **Done** (onscreen keyboard).

D. Tap in **System** field (2), type the **System name** and tap **Done** (onscreen keyboard).

E. Tap **Add new files** (4), refer to chapter "9.5.3 Remove files" on page 30.

F. Tap the icons (6) to set the iOptima unit parameters:

- Handpiece ratio
- Light intensity
- Footpedal mode: PROGRESSIVE or ON/OFF mode
- MX2 micromotor rotation mode: FORWARD, AUTO-REVERSE, AUTO-FORWARD

See chapter "9.2 Operative screen description" on page 26, for details.

G. Tap **Save** (3).

9.7.1 Restore (custom) and delete (user-defined) brand

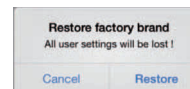
Note 22 - 23

Restore default brands (factory settings)

FIG. 32

A. Swipe left on a default brand.

↳ A message box opens: **Restore factory brand**.



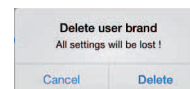
B. Tap **Cancel** or **Restore** to acknowledge.

Delete user-defined brands

FIG. 33


A. Swipe left on a user-defined brand.

↳ A message box opens: **Delete user brand**.





B. Tap **Cancel** or **Delete** to acknowledge.

NOTES

- 20** New systems and brands can also be created directly from the system screen.
- 21** Maximum storage of 10 user-defined brands and 10 systems per brand, if exceeded the  icon disappears.
- 22** Restore ALL default system settings from the Brands screen.
- 23** It is only possible to delete user-defined brands

10 List of errors & Troubleshooting

10.1 Safety warning (operating)

Warning	Message (emits alternate long beeps)	Cause of error	Action
 Release the pedal	The pedal is pressed when starting the device.	Safety	Release the footpedal and press again.
	The motor is blocked for more than 2 seconds.	Safety	Release the footpedal and press again.
 Stop MX2 motor	The motor control card limits the power supplied to the motor to prevent motor overheating.	Safety	Avoid extended use.

10.2 Device operating error

Error	Message	Cause of error	Action
4. Loss of motor connection			
ERROR 4	The motor is not connected! Please check the connection.	Loss of motor phase fault. The motor is not connected correctly.	Check motor connection. Contact Bien-Air Dental SA.
5. Motor cable fault			
ERROR 5	Motor cable fault! Please change cable.	Motor power fault. The motor cable may be defective.	Check motor cable. Contact Bien-Air Dental SA.
6. Motor control overheating			
ERROR 6	System overheating! Please wait for it to cool.	Overheating of motor control card (electrical control of motor).	Wait until the system cools. Contact Bien-Air Dental SA.
7. System electrical fault			
GEN ERROR [Error code]	System electrical fault! Please contact Bien-Air Dental SA.	Communication fault with motor control card: [EC100] Motor control card power supply under-voltage: [EC101] Motor control card power supply over-voltage: [EC102] Other motor control card faults: [EC120]	Contact Bien-Air Dental SA.

10.3 iOS compatibility errors (disclaimer screen)


Color	iOS version (identifier digit change)	Text version	Restriction (recommendations)
Green	<ul style="list-style-type: none"> None. Currently installed iOS is identical to iOS verified during app validation. 	Currently installed iOS x.y.z text section is displayed in green color.	No restrictions
Orange	<ul style="list-style-type: none"> Last digit is different: iOS x.y.Z. Currently installed iOS was updated for a minor change compared to iOS verified during app validation. 	Currently installed iOS x.y.z text section is displayed in orange color. User must be aware that the configuration he is using is slightly different from the recommended configuration.	<ul style="list-style-type: none"> Configuration in use is slightly different from recommended configuration. No restrictions
Red	<ul style="list-style-type: none"> First and/or second digit are/is different: iOS X.y.z, or iOS X.Y.z. Currently installed iOS was updated for major or at least significant changes compared to iOS verified during app validation 	Currently installed iOS x.y.z text section is displayed in red color.	<ul style="list-style-type: none"> Configuration in use is significantly different from recommended configuration. <p> CAUTION The current configuration should NOT be used!</p>



FIG. 1

11 Maintenance

⚠ CAUTION

Only use original Bien-Air Dental maintenance products and parts or those recommended by Bien-Air Dental. Using other products or parts may cause operational failure and/or void the guarantee.

11.1 Servicing

Never disassemble the device. For any modification and repair, we recommend to contact your regular supplier or Bien-Air Dental SA directly at the address indicated on the back cover.

Note 1

11.2 Information

The technical specifications, illustrations and dimensions contained in these instructions are given only as a guide.

They may not be the subject of any claim.

The manufacturer reserves the right to make technical improvements to its equipment, without amending these instructions.

For all additional information, please contact Bien-Air Dental SA at the address indicated on the back cover.

11.3 Cleaning-disinfection

- Disinfect the surfaces of the iOptima unit and footpedal by gently rubbing with a clean cloth soaked in a suitable product (i.e. Bien-Air Dental Spraynet or isopropyl alcohol for about 15 sec.)
- Do not immerse in disinfectant solution.
- Not designed for an ultrasonic bath.

11.4 Important

For maintenance: See instructions
 Micromotor MX2 LED See doc. REF 2100199
 Hose MX2 Grey See doc. REF 2100223

11.5 Replace 4VL seal

FIG. 1

CAUTION

Immediately replace any damaged or leaking O-rings and seals.
Never use sharp tools!

- A. Switch off the water and the dental unit power supply.
- B. Switch OFF the iOptima unit «O».
- C. Unscrew and unplug the 4VL hose (1).
- D. Remove the damaged 4VL seal (2).
- E. Replace with a new 4VL seal (REF 1302403-010).

 Refit hose, switch ON units and water.

See chapter "5.2 Install the iOptima system" on page 12 for details.

NOTES

- 1 Bien-Air Dental SA asks the user to have its dynamic instruments checked or inspected at least once a year.


12 General information and guarantee

12.1 General information

The device must be used by qualified professionals in compliance with the current legal provisions concerning occupational safety, health and accident prevention measures, and these instructions for use. In accordance with such requirements, the operators:

- must only use devices that are in perfect working order; in the event of irregular functioning, excessive vibration, abnormal heating or other signs that may indicate malfunction of the device, the work must be stopped immediately; in this case, contact a repair center that is approved by Bien-Air Dental SA;
- must ensure that the device is used only for the purpose for which it is intended, must protect themselves, their patients and third parties from any danger, and must avoid contamination through the use of the product.

12.2 Notation

- **A, B, C**, etc.
Text preceded by a letter indicates a procedure to be carried out step-by-step.
- 
Indicates a procedure result.
- **(1), (2), (3)**, etc.
Text preceded by a number indicates text used in conjunction with an illustration.
- ***OK, Save, Settings***, etc.
Text in bold italic font style indicates, on-screen elements such as buttons, menus, menu items, screen areas, values, fields when they are named and screen names.
Tap ***Settings*** to open the ***Settings*** screen, change parameters and tap ***Done***.

12.3 Terms of guarantee

Bien-Air Dental SA grants the user a guarantee covering all functional defects, material or production faults.

The device is covered by this guarantee for:

- 12 months for the hose
- 12 months for the power supply
- 24 months for the iOptima unit
- 36 months for series MX2 LED electric micromotors

from the date of invoicing.

In case of justified claim, Bien-Air Dental SA or its authorized representative will fulfill the company's obligations under this guarantee by repairing or replacing the product free of charge. Any other claims, of whatever nature, in particular in the form of a claim for damages and interest, are excluded.

Bien-Air Dental SA shall not be held responsible for damage or injury and the consequences thereof, resulting from:

- excessive wear and tear
- improper use
- non-observance of the instructions for installation, operation and maintenance
- unusual chemical, electrical or electrolytic influences
- poor connections, whether of the air, water or electricity supply.

The guarantee does not cover flexible "fiber optic" type light conductors, or any parts made of synthetic materials.

The guarantee shall become null and void if the damage and its consequences are due to improper manipulation of the product, or modifications to the product carried out by persons not authorized by Bien-Air Dental SA.

Claims under the terms of the guarantee will be considered only on presentation, together with the product, of the invoice or the consignment note, on which the date of purchase, the product reference and the serial no. should be clearly indicated.

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