



**EDGEENDO®**

**ENDOMAX®**  
BRITE

**ENDOMAX® BRITE**  
**Endodontic Dental Handpiece**  
**INSTRUCTIONS**

 Read Instructions Before Use



CE 2460

**DENTAMERICA®**

18688 E. San Jose Ave.  
City of Industry, CA 91748 U.S.A.  
[WWW.DENTAMERICA.COM](http://WWW.DENTAMERICA.COM)



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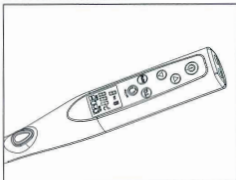
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### INTENDED USE

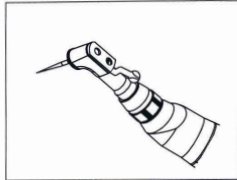
ENDOMAX® BRITE is an endodontic dental handpiece used primarily for root canal enlargement.

### STANDARD COMPONENTS

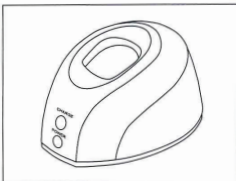
1. ENDOMAX® BRITE Handpiece
2. Contra Angle Mini Head
3. Charging Station
4. Power Cable for Charging Station
5. LED Light Module
6. Instructions



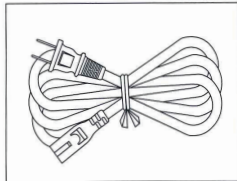
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— 1 —

### INSTALLATION

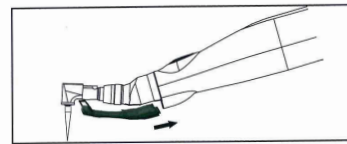
#### **Installing the contra angle mini head:**

1. Push the contra angle mini head securely into the Endomax unit.
2. To remove the contra angle mini head, pull gently until it is detached from the handpiece.



#### **Installing the LED light module:**

1. Insert the LED light module into the connector below the handpiece.
2. Attach the LED light module to the contra angle mini head.

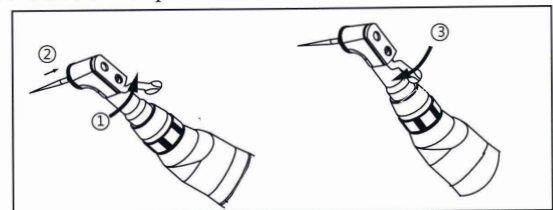


#### **Changing the root canal file (latch type):**

1. Open the latch by pushing the latch sideways.
2. Insert the root canal instrument into the head of the contra angle and turn until the instrument engages. Verify the file is all the way in.
3. Close the latch in a locked position. Verify the latch is secured with the file in place.

Please Note:

During use the endodontic file temperature may reach 43°C, under 40°C ambient temperature.



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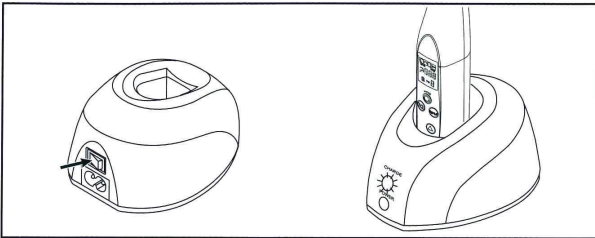


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#### Charging station:

Insert the power cable to the backside of the charging unit. Turn on the charging station switch located above the power cable inlet.



Control lamp indicator function:

**CHARGE:** An orange light indicates that the battery is charging.

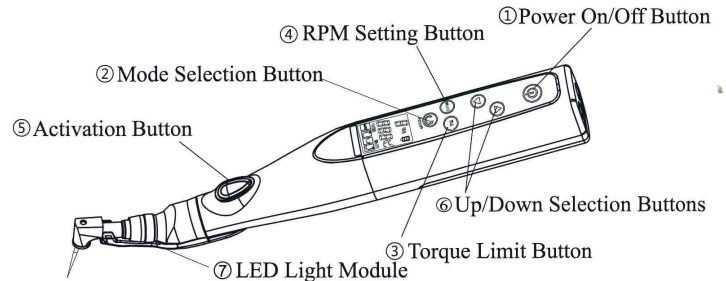
A green light indicates that the battery is fully charged.

#### Note:

1. Please charge the battery fully before using the unit for the first time. (At least 5 hours)
2. If battery level less than one will cause low torque output during reverse rotation.
3. Do not use handpiece when the battery level is less than one. Immediately place handpiece onto charging station.
4. Always return the ENDOMAX®BRITE handpiece to the charging station when not in use to ensure smooth operation.
5. The power plug should be easily accessible for disconnection in case of emergency.
6. Avoid touching the charging points of the handpiece or the charging pins of the charging station.

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## GENERAL INSTRUCTIONS



#### 1. Power On/Off Button

Turn on the handpiece by pressing the button. Turn off the handpiece by pressing the button over 1 second then releasing the button

#### 2. Mode Selection Button

Press and hold the Mode Selection Button for 2 seconds to select between three different modes: *Auto-Reverse Forward*, *Reciprocating*, *Auto-Reverse Stop*

Press the mode selection button to set the motor to reverse. Press again to switch back to forward operation.

#### 3. TQ (Torque) Limit Button

Press the Torque Limit Button, then select between 5 torque level settings by pressing the Up/Down Selection Buttons until the desired level is selected.

#### 4. RPM (Speed) Button

Press the RPM Setting Button, then select between 9 RPM level settings by pressing the Up/Down Selection Buttons until the desired level is selected.

#### 5. Activation Button

Pressing the activation button will activate motor rotation while pressing it again will stop motor rotation. Pressing and holding the activation button for longer than one second will rotate the motor. Releasing the button after continuously holding down the activation button will stop the motor.

Note: When the motor is operating, only the "Mode Selection" and "Power On/Off" buttons will be accessible.

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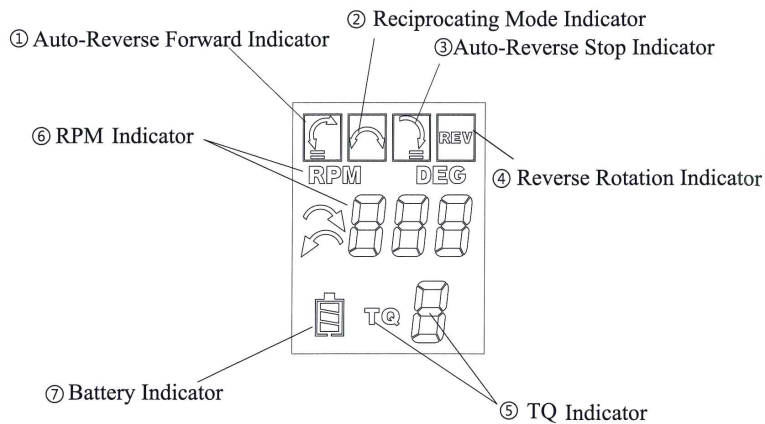
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## 6. Up/Down Selection Buttons

## 7. LED Light Module

The LED light module will turn on when the motor is activated. The LED light module will turn off 2 seconds after the motor has been deactivated.



### 1. Auto-Reverse Forward Indicator

### 2. Reciprocating Mode Indicator

### 3. Auto-Reverse Stop Indicator

### 4. Reverse Rotation Indicator

### 5. Torque Indicator

Displays the current Torque level. Press Up/Down Button can change Torque level.

### 6. RPM Indicator

Displays the current RPM level. Press Up/Down Button can change RPM level.

### 7. Battery Indicator

Displays the current battery level.

### Auto power off

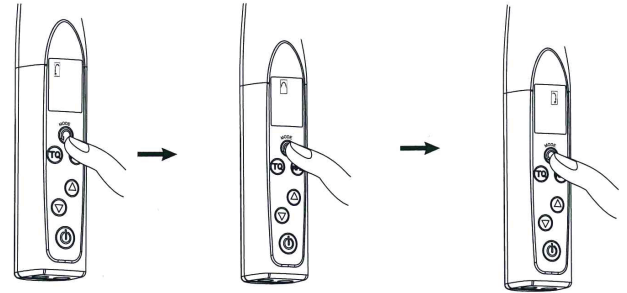
When the ENDOMAX® BRITE is not in operation for more than 10 minutes the unit will automatically power off.

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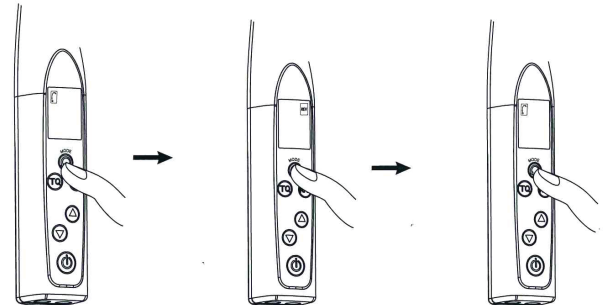
## OPERATION

### Selecting the different ENDO functions:

To change between different Endo mode functions press and hold the mode button until the desired mode is selected.



Press the mode selection button to reverse rotation. The reverse rotation indicator will remain lit during reverse rotation. Pressing the mode selection button again will return the rotation to the forward direction.



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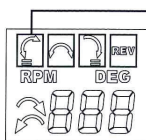




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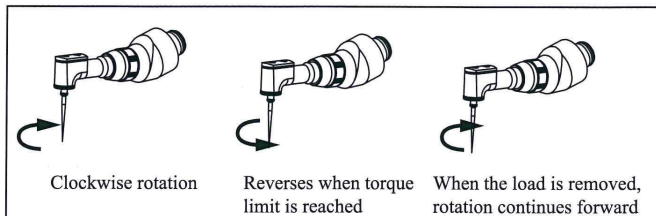
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The mode button will cycle through three different endodontic functions:

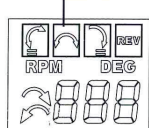


### 1. Auto-Reverse Forward

When the preset torque is reached, the handpiece will run counterclockwise until the file is free from load and then continue to rotate clockwise.



### 2. Reciprocating Mode



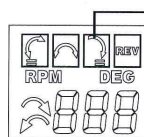
Under the reciprocating mode, the user can program the angles of rotation. Press and hold the "MODE" button until the reciprocating mode has been reached. When under the reciprocating mode, press the "RPM" and "TQ" buttons at the same time for about 2 seconds to program the degrees of rotation. The display of "RPM" will change to "DEG".

If the clockwise arrow is displayed, the clockwise rotation angle will be changed. Use the "up arrow" and "down arrow" buttons to program the clockwise rotation angle. The angles will change by 20° ranging from a minimum of 30° and a maximum of 170°.

Clockwise rotation angles: 30°, 50°, 70°, 90°, 110°, 130°, 150°, 170°. Press the "DEG" button again to select the desired clockwise rotation angle.

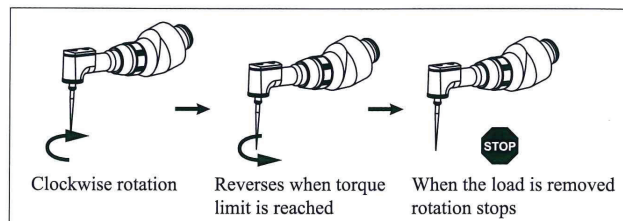
If the counterclockwise arrow is displayed, the counterclockwise rotation angle will be changed. Use the "up arrow" and "down arrow" buttons to program the counterclockwise rotation angle. The angles will change by 20° ranging from a minimum of 30° and a maximum of 170°.

Counterclockwise rotation angles: 170°, 150°, 130°, 110°, 90°, 70°, 50°, 30°. Press the "DEG" button again to select the desired counterclockwise rotation angle.

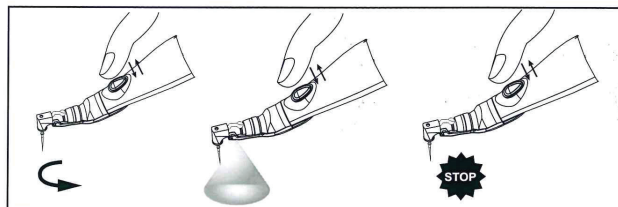


### 3. Auto-Reverse Stop

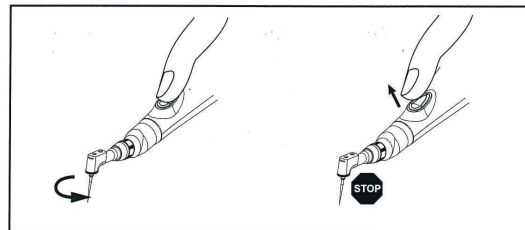
When the preset torque is reached, the handpiece will run counterclockwise until the file is free from load then stops. Press the activation button to continue operation.



The LED light module will turn on when the motor is activated. The LED light module will turn off 2 seconds after the motor has been deactivated.



Pressing and holding the activation button for longer than one second will rotate the motor. Releasing the button after continuously holding down the activation button will stop the motor.



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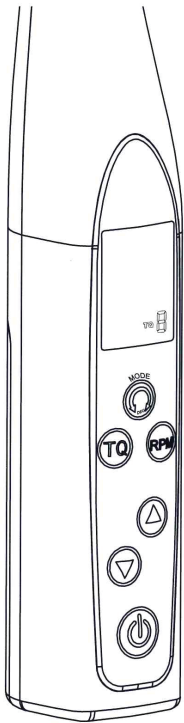


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#### Setting torque limit:

Press the Torque Limit Button when the power is on to select from 5 different torque level settings. Press the Up/Down Selection Buttons until the desired torque level is selected. Pressing the Activation Button while the unit is in motion will display the level which the Torque setting is operating at. The handpiece will start to auto-reverse when the preset value is reached.

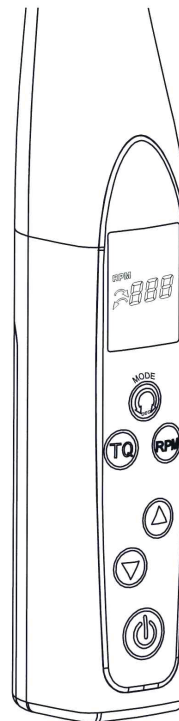


Torque Setting Level	Torque
5	4.0 N·cm
4	3.0 N·cm
3	1.5 N·cm
2	1.0 N·cm
1	0.5 N·cm

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#### Adjusting RPM:

Press the RPM Button when the power is on to select from 9 different RPM level settings. Press the Up/Down Selection Buttons until the desired of RPM level is selected. Pressing the Activation Button while the unit is in motion will display the level which the RPM setting is operating at. Select the desired RPM level according to the file manufacturer recommendations.



Gear Ratio	Speeds (RPM)								
	1	2	3	4	5	6	7	8	9
17:1	125	185	250	310	375	435	500	560	625

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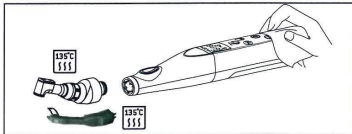


### NOTE

Do not set the rotation speed and torque limit higher than needed. When overloaded, the selected torque limit may be temporarily exceeded which may cause file breakage or separation. Always start and maintain the lowest torque and RPM possible to ensure smooth operation.

### STERILIZATION/CLEANING

1. Autoclave the contra angle mini head and LED light module after every use.
2. The charging station and handpiece cannot be autoclaved.
3. The charging station and handpiece can be wiped down with surface disinfectants.
4. Never reuse files as they may be prone to breakage and or separation.
5. The contra angle should be sterilized according to the autoclave manufacturer's instructions (maximum temperature 135°C, for about 40 min) to prevent cross contamination between patients.



### MAINTENANCE

Lubricate the contra angle attachment with high quality dental lubricant for routine handpiece maintenance. Only professional personal can operate this device, operation by patient is prohibited. For operator's safety, when device is in use, maintenance is strictly prohibited.

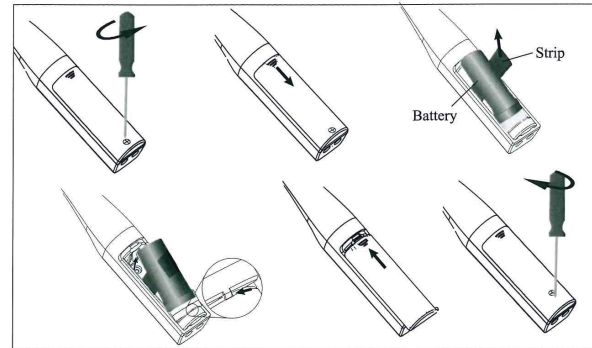
#### MAINTENANCE:

Lubricate the dental handpiece attachments daily. Do not lubricate the motor section. For effective maintenance, thoroughly spray lubricant for one second during every lubricating process (see figures).



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### CHANGING THE BATTERY



Use a screwdriver to remove the screw on the battery panel. Slide the battery panel downward to remove it. Pull on the strip to help remove the old battery. Insert the new battery and replace the battery panel by sliding it upward. Refasten the screw.

### TROUBLESHOOTING

PROBLEM	PROCEDURE
Cannot turn on the handpiece.	<ol style="list-style-type: none"> <li>1. Check battery (replace with new battery).</li> <li>2. Return to dealer for service.</li> </ol>
Battery level is less than one when turned on	<ol style="list-style-type: none"> <li>1. Place handpiece in charging station to fully charge.</li> <li>2. Check battery (replace with new battery).</li> <li>3. Return to dealer for service.</li> </ol>
No rotation when activated.	<ol style="list-style-type: none"> <li>1. Check file for damage.</li> <li>2. Check attachment for damage.</li> <li>3. If motor is running fine without attachment, replace attachment.</li> <li>4. Return to dealer for service.</li> </ol>
Handpiece outputs weak torque, cannot auto-reverse.	<ol style="list-style-type: none"> <li>1. Fully charge the handpiece.</li> <li>2. Check battery and replace with new battery if necessary (do not use when battery level is less than one.)</li> <li>3. Return to dealer for service.</li> </ol>

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Noisy rotation.	<ol style="list-style-type: none"><li>1. Check if the attachment is properly connected to the handpiece.</li><li>2. Check attachment for damage.</li><li>3. If motor is running fine without attachment, replace attachment.</li><li>4. Return to dealer for service.</li></ol>
No electricity in charging station.	<ol style="list-style-type: none"><li>1. Check if both ends of power cable are securely attached.</li><li>2. Make sure to turn on the charging station switch located on the back of the station.</li><li>3. Return to dealer for service.</li></ol>
Cannot charge.	<ol style="list-style-type: none"><li>1. The amber light on the charging station will turn green then turn off during start up. If this does not occur, replace the charging station.</li><li>2. Check if charging pins are damaged.</li><li>3. Check if the contact pin on the handpiece are in good condition.</li><li>4. Check battery (replace with new battery).</li><li>5. Use alcohol to wipe clean the contact pins at the bottom of the handpiece to ensure proper contact.</li><li>6. Return to dealer for service.</li></ol>
LED light module does not turn on.	<ol style="list-style-type: none"><li>1. Check if the connection between the contact pins of the LED light module and handpiece is dirty. If dirty, clean with alcohol and soft cloth.</li><li>2. Check if the contact pins of the LED light module are in good condition. If the pins are damaged, replace the LED light module.</li><li>3. Replace the LED light module if it is not working due to an unexplained cause.</li></ol>

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**SPECIFICATIONS**

INPUT	AC100V~240V 50-60Hz, 0.2A
CHARGER STATION FUSE	1A 250V
BATTERY TYPE	3.7V 1620mAh
DIMENSIONS (HANDPIECE)	L201xW26xH31mm
DIMENSIONS (CHARGING STATION)	L105xW85xH59mm
WEIGHT (HANDPIECE)	160g
WEIGHT (CHARGING STATION)	125g
TRANSPORTATION & STORAGE	Ambient Temperature: -40°C~55°C Relative Humidity: <93%
OPERATION ENVIRONMENT	Ambient Temperature: 10°C~40°C Relative Humidity: 10%~90%
MAXIMUM OPERATION ALTITUDE	3,000 M (700-1,060 hPa)

**WARNING****Battery**

1. Do not put battery near fire or place under the sun.
  2. In case of battery leakage, avoid direct skin or eye contact with the liquid electrolyte. If liquid electrolyte comes into contact with the skin or eyes flush area immediately with water and seek medical attention.
  3. Do not use different battery type/ brand or size together.
  4. If case of battery accident seek medical attention immediately.
  5. Keep battery clean and dry.
  6. When terminals of battery are dirty, wipe with napery.
- This unit has no water proof capabilities. Do not immerse or wet the unit. Do not apply disinfecting agents containing chemical such as glutaraldehyde on the plastic parts of the unit as they will discolor and break down the plastic. Damage caused by use of such products is not covered under warranty. Follow the required guidelines to dispose of the unit, accessories, waste, products, residues, etc. No modification of this device is permitted. Any modification of this product is prohibited.

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## WARRANTY

### **DENTAMERICA®**

warrants this unit against defects in material or workmanship for a period of one year from the date of purchase.

This warranty does not apply to damage arising improper operation of the unit.

### **DENTAMERICA®**

shall repair or replace the defective unit upon return of the unit together with evidence of purchase date to its authorized dealer.

ISO 13485 Certificated Manufacture



Date of manufacture



INSYZOR  
76 Windsor Drive Yate Bristol BS37-5DY, England UK



Consult instructions for use



DHEF, INC  
15F, No.106, Hsin Tai Wu Rd., Sec.1,  
Hsi Chih Dist., New Taipei City,  
Taiwan R.O.C.



Refer to instructions



Type BF Applied Part

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