SETTINGS MADE SIMPLE

The EndoSync Plus has been designed and optimized to make every Brasseler file more efficient. This has been accomplished by fining tuning both the Cutting and Non Cutting Angles for each and every Brasseler rotary file. From XP-3D to ESR to the original EndoSequence file, the EndoSync Plus will instantly make any Brasseler file better through increased efficiency and optimal safety.

All settings are adjustable; these displays are only presets

Memory	Mode	Torque (Ncm)	Speed (RPM)	Rotation/Direction	File/Usage
M1	OTR	0.6	500	180° CW (Cutting) 60° CCW (Non-Cutting)	EndoSequence® ESX™ EndoSequence® CM EndoSequence® Scout KontrolFlex™
M2	OTR	0.2	500	180° CW (Cutting) 60° CCW (Non-Cutting)	EndoSequence® Reciprocating Mode
M3	OTR	0.2	500	180° CCW (Cutting) 60° CW (Non-Cutting)	ESR™ Mode
M4	OTR*	1.0	1,000	180° CW (Cutting) 90° CCW (Non-Cutting)	XP-3D™ Mode
M5	OTR	0.6	300	180° CW (Cutting) 90° CCW (Non-Cutting)	Traditional OTR (at 300 RPMs)
M6	CW (FWD)	1.0	500	Standard	Standard

Visit our website at BrasselerUSA.com

To order call 800.841.4522 or fax 888.610.1937. In Canada call 800.363.3838

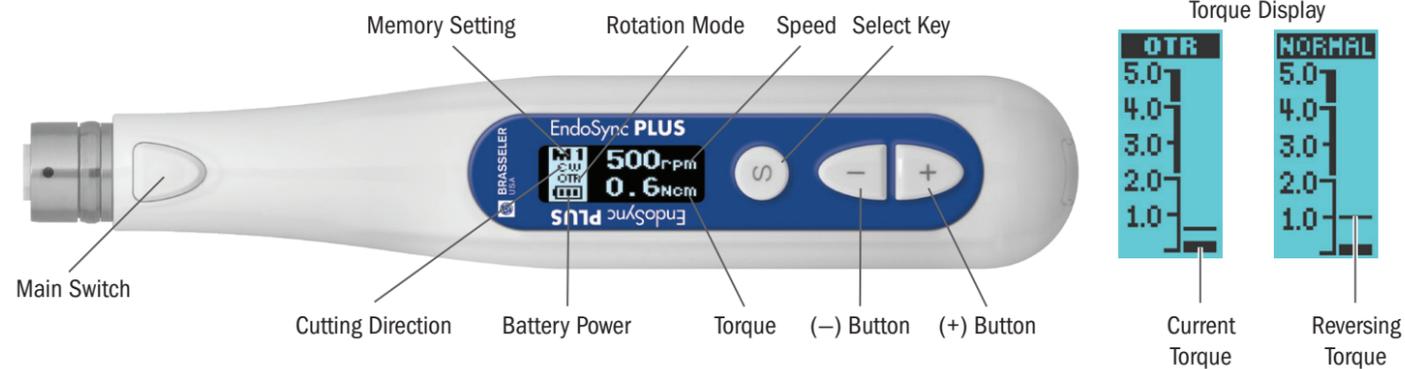*Some users will choose to use XP-3D without OTR*

BRASSELER
USA®

EndoSync™ PLUS
Quick Operation Guide

BY YOUR SIDE

EndoSync™ PLUS

Memory Setting **Rotation Mode** **Speed** **Select Key**

Main Switch

Cutting Direction **Battery Power** **Torque** **(−) Button** **(+) Button**

Torque Display

Current Torque | Reversing Torque

BASIC OPERATION

· **Turn ON:** Press the *Main Switch*

· **Start/Stop the Motor:** Press the *Main Switch* again.

· **Select/Change Memory Setting:** Press the *+ or − Buttons* to cycle between the memory setting (M1-M6)

· **Turn OFF:** Press the *Main Switch* and the *Select Key* at the same time

PREFERENCE MENU

1. With the EndoSync Plus turned off, hold the *Select Key* and press the *Main Switch* to access the preference menu.

2. Tap the *Select Key* to cycle through the different options to customize. Use *+ or − Buttons* to change the settings.

· **Beep Volume:** High, Low, OFF

· **Auto Power Off:** 1 min-15 min (idle time before the device powers off)

· **Display Type:** Positive or Negative (inverted color scheme)

· **Dominate Hand:** Right or Left

· **Back Light color Change:** Adjusts background color from colored to black + white

· **Stand by Screen Return (SSR):** 1 sec- 15 sec. Set the time that elapses before the display reverts back to the standby screen

· **Setting Lock:** ON or OFF, locks the settings in place for M1-M6 (speed, torque, direction etc.)

MEMORY SETTINGS OPERATION

Hold down the *Select Key* for 2 seconds to change the memory settings. Tap the *Select Key* to cycle through the different memory setting options.

· **Rotation Mode:** OTR, CW (FWD), CCW* (REV)

   a. If OTR is selected, choose OTR Cut Direction: CW or CCW

   b. If OTR, select desired Cut Angle and Non-cutting angle

   c. Cutting Angle: 90°**, 150°, 180°, 270°, 360°

   d. Non Cutting Angle: 30°, 60° 90°, 120°

· **Speed:** Use *+ or − Buttons* to adjust to desired speed***

· **Reverse Torque:** Use *+ or − Buttons* to adjust to desired torque***

ADVANCED SETTINGS FOR USE WITH THE ENDOSYNC A.I. APEX LOCATOR

Hold down the *Select Key* for 2 seconds to change the memory settings. Tap the *Select Key* to cycle through the basic settings until you see "Sync". Use *+ or − Buttons* change the settings for each option below.

· **Sync Mode:** When Sync is set to ON, Apical Action will be activated.

· **Apical Action:** Apical Reverse or Apical Stop can be set. The file will either stop or reverse when the file tip reaches the apex.

· **Auto Start/Stop:** When this is set to ON, the file starts rotation when it is inserted and stops when it is removed from the canal.

Below settings are only available when OTR is disabled:

· **Apical Slow Down[†]:** When ON, the file slows down as it approaches the apex.

· **Apical Torque Reduction[††]:** When ON, the torque setting that triggers reverse rotation is reduced as the file tip approaches the apex. apex.

· **Torque Slow Down[†††]:** When ON, the motor speed will slow down as the torque load increases.

*should only be used with files that cut on the Reverse or CCW direction
**90 degree cut angle only achievable at 100rpms
***Some speed and torque settings not available in OTR mode

[†]Cannot be used in combination with Apical Torque Reduction
[††]Cannot be used in combination with Apical Slow down or Torque Slow Down
[†††]Cannot be used in combination with Apical Torque reduction

Please reference page 15 of the operation manual for more details.