



# ESTÜS

NEXT  
EVOLUTION OF  
ENDODONTIC  
TECHNOLOGIES

## SERIES OF ENDODONTIC DEVICES ESTUS





ESTÜS

# ESTUS

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available in the following countries:

- Republic of Philippines,
- Syrian Arab Republic,
- Kingdom of Saudi Arabia,
- United Arab Emirates,
- Malaysia,
- Republic of Lebanon,
- Islamic Republic of Iran,
- Republic of Iraq,
- Hashemite Kingdom of Jordan,
- Republic of India,
- Socialist Republic of Vietnam,
- Republic of Bulgaria,
- People's Democratic Republic of Algeria,
- Arab Republic of Egypt.







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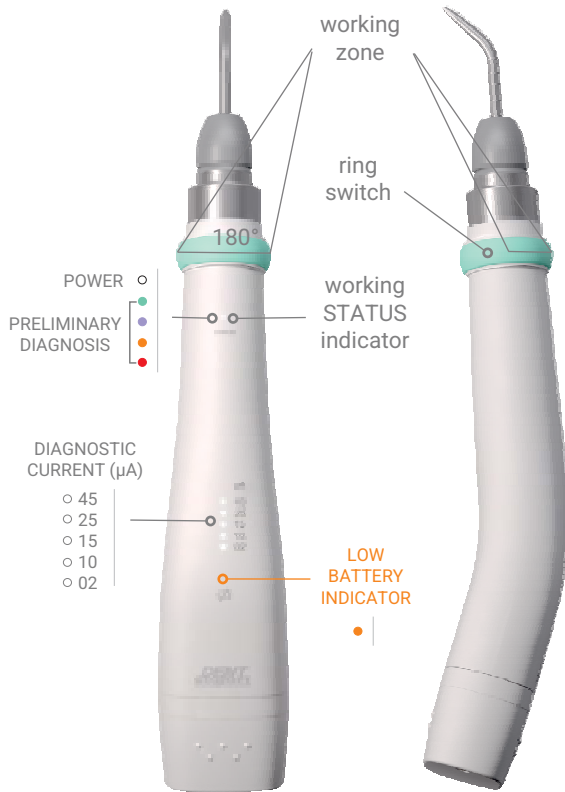
## PULP TESTER ESTUS PULP



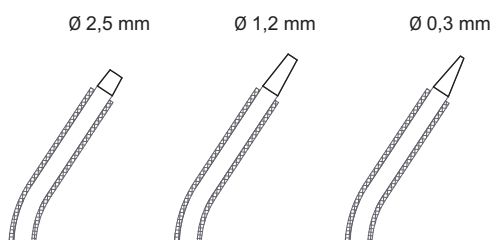
## PULP TESTER

### ESTUS PULP

#### DEVICE CONTROLS AND INDICATION:



INDICATOR STATUS	DIAGNOSTIC CURRENT µA	PRELIMINARY DIAGNOSIS
●	2 - 9	HEALTHY
●	10 - 24	REVERSIBLE PULPITIS
●	25 - 44	IRREVERSIBLE PULPITIS
●	45 - 80 /no reaction	PULP NECROSIS

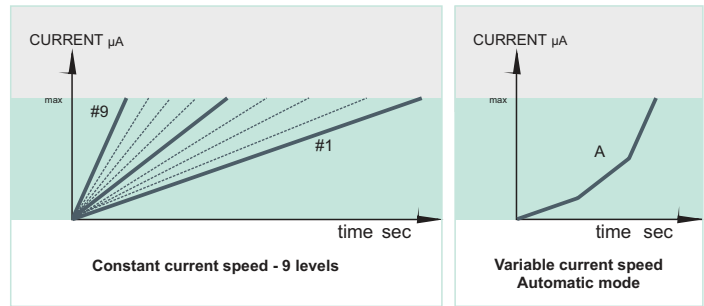


- **Autoclavable quick-detachable EOD probe** for use in different teeth:
  - standard Ø 1,2 mm
  - sharp Ø 0,3 mm
  - blunt Ø 2,5 mm
- **Six fixed positions of EOD Probe** adjust to various clinical situations.
- **Nine diagnostic current speed levels** corresponding to the dentist's choice. Also **Automatic mode** - gradual speed increase from minimum to maximum in the whole range of values
- **Preliminary diagnosis indication** on the handpiece LED indicators and ESTUS MULTI display based on diagnostics results
- **Maximal comfort in operation** is provided by a single button - Ring Switch. Convenient both for left - and right-handers.
- **Prevention** of accidental switch on due to restriction of working zone (upper 180°) of Ring Switch
- **Excellent ergonomic characteristics of handpiece:**
  - specifically designed, provides a super balanced position in the dentist's hand,
  - low weight and excellent visibility of indicators location is in the direct closeness to the working zone
- **Easily replaceable battery units** always keep the handpiece in operating condition. 2 types of blocks - with mains charging or using a charging stand
- **Long-term operation without recharging the battery** - not less 3 months of continuous operation.
- **ESTUS PULP can perform either as autonomous device or as a part of ESTUS dental complex**, the main part of which is ESTUS MULTI control unit.

## FUNCTIONS OF AUTONOMOUS OPERATION:

- **AUTOMATIC MODE** of diagnostic current speed increase
- **Preliminary diagnosis indication** on the handpiece LED indicators

### DIAGNOSTIC CURRENT SPEED INCREASE



POWER: battery unit 1600 mAh or 800 mAh  
 MAX. DIAGNOSTIC CURRENT - 80 μA  
 BUILT-IN RADIO MODULE: 2,4 GHz (not < 3 m)  
 DIMENSIONS: 202\*33\*43 mm (without probe) / WEIGHT: 85 g



## ESTUS ADDITIONAL FUNCTIONS:

- **Wireless communication** with the ESTUS MULTI control unit using a radio channel
- Diagnostic current speed control - **9 levels or Automatic mode**
- Preliminary diagnosis indication on the ESTUS MULTI display:





**1. Set «Estus Pulp (Plus)»  
GE33-PP**

- Control unit “Estus Pulp”
- Battery unit (1600 mAh)
- Probe EOD standard (Ø 1,2 mm)
- Working cable
- Lip clip “Oral Hook”
- Stand “Estus One-B”
- Charging stand “Estus Energy-S”
- Charger cable USB - USB-B
- Power adapter (1A)



**2. Set «Estus Pulp»  
GE33-P0**

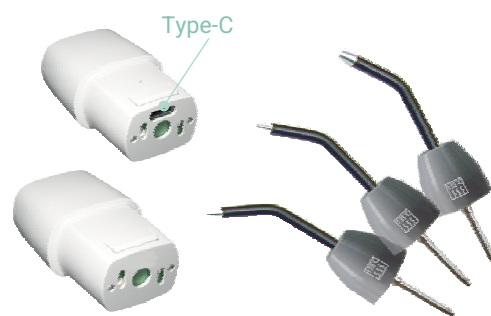
- Control unit “Estus Pulp”
- Battery unit (1600 mAh)
- Probe EOD standard (Ø 1,2 mm)
- Working cable
- Lip clip “Oral Hook”



**3. Set «Estus Pulp (4)»  
GE33-P4**

- Control unit “Estus Pulp”
- Battery unit (800 mAh/ Type-C)
- Probe EOD standard (Ø 1,2 mm)
- Working cable
- Lip clip “Oral Hook”
- Charger cable for battery unit (USB - Type-C)
- Power adapter (1A)

**ADDITIONALLY:**



**Accessories**

- Probe EOD standard (Ø 1,2 mm)  
GE99.147.000
- Probe EOD sharp (Ø 0,3 mm)  
GE99.148.000
- Probe EOD blunt (Ø 2,5 mm) GE99.149.000
- EOD probes set (3 pcs.) GE99.150.000
- Battery unit (1600 mAh) GE99.205.000
- Battery unit (800 mAh/Type-C) GE99.250.000

# ESTÜS

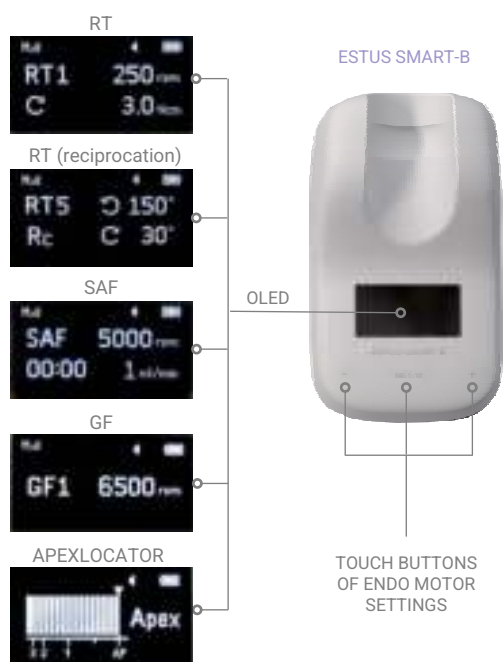
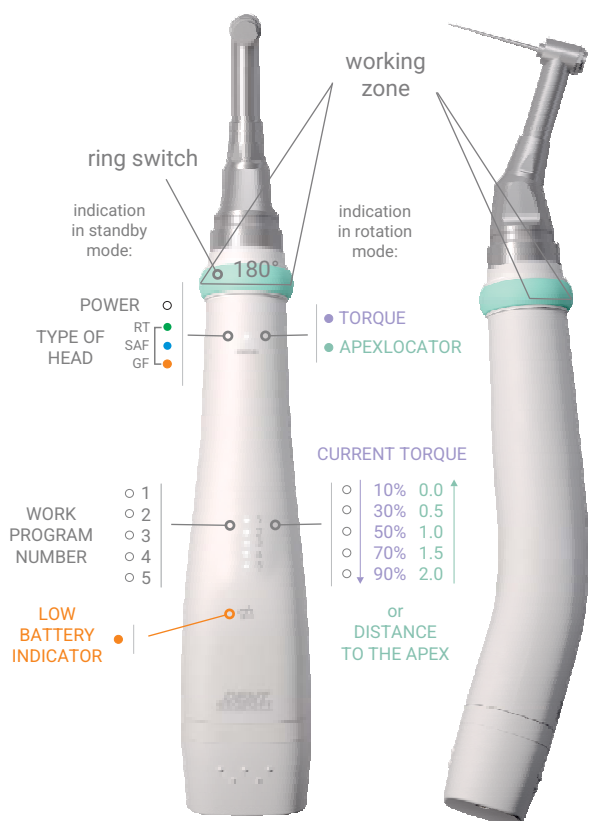
NEXT  
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## ENDODONTIC MOTOR ESTUS DRIVE



# ENDODONTIC MOTOR ESTUS DRIVE

## DEVICE CONTROLS AND INDICATION:



## FEATURES AND BENEFITS:

- Preparation with the following systems:**
  - all types of NiTi files with continuous rotation;
  - reciprocating NiTi systems with programmable rotating angle (clockwise and counter clockwise);
  - SAF (Self Adjusting File);
  - endodontic burs and brushes of the «GentleBrush File» type.
- Operation with 3 types of heads:**
  - RT type for rotary NiTi and reciprocal files (speed 200-1200 rpm);
  - SAF type for SAF files (speed 3500-9500 rpm);
  - GF type for endodontic burs and brushes of the «GentleBrush File» type (speed 3000-9000 rpm)
- Automatic detection of the type of connected head** with automatic adjustment of the endomotor to the selected mode of operation
- Quick and reliable connection / disconnection** of the heads to/from the endomotor handpiece due to a magnetic lock.
- Maximal comfort in operation** is provided by a single button - Ring Switch, especially for endodontists working with endomicroscopes. Convenient both for left - and right-handers.
- Prevention** of accidental switch on due to restriction of working zone (upper 180°) of Ring Switch
- Excellent ergonomic characteristics of handpiece:**
  - specifically designed, provides a super balanced position in the dentist's hand,
  - low weight and excellent visibility of indicators location is in the direct closeness to the working zone
- Easily replaceable battery units** always keep the handpiece in operating condition. 2 types of blocks - with mains charging or using a charging stand
- Two apexlocators:**
  - built-in, for the safe canal preparation
  - external, intergrated into the ESTUS SMART-B stand for working canal length determination.
- Endo Motor can perform either as autonomous device or as a part of ESTUS dental complex**, the main part of witch is ESTUS MULTI control unit.

In autonomous mode, the endomotor works either separately or in pair with the "smart" stand "ESTUS SMART-B", which provides control of all endomotor settings, displays current parameters and performs the function of an external APEXLOCATOR. When working with SAF files, it must be paired with an irrigation pump «ESTUS PUMP»



## FUNCTIONS OF AUTONOMOUS OPERATION WITHOUT «ESTUS SMART-B» STAND:

### with RT»head:

- 4 programs with fixed settings for working with Ni-Ti files of continuous rotation and 1 program for working with reciprocal files

### Torque control function:

- indication of the current Torque value on the LED panel of the handpiece
- the function of automatic optimal control of the Torque "Safety Torque Reverse" when the file reach maximum set values

### built-in Apexlocator:

- indication of the current distance to the apex on the LED panel of the handpiece
- "Apical Slow Down" function
- Auto-reverse when the apex is reached

### with SAF head»:

- 5 programs with one fixed file rotation speed and different irrigation solution feed rate

### wireless control of the "ESTUS PUMP" pump by radio channel

- built-in timer for the motor and pump. Indication of the current timer value on the LED panel of the handpiece

### with GF head»:

- 2 programs for working with burs at a speed of 6500 rpm and for working with endodontic brushes of the "GentleBrush File" type at a speed of 3000 rpm

- the ability to change all operating parameters of the endomotor when using a special adapter "ESTUS USB"

## ADDITIONAL FUNCTIONS WHEN USING A «ESTUS SMART-B» STAND:

- selecting the direction of rotation of the Ni-Ti files in each of the 5 programs - direct, reverse or reciprocal
- adjustment of speed of rotation of all types of files and torque for Ni-Ti files
- the ability to program the rotation angles of reciprocal files clockwise and counterclockwise
- setting and indication of all operating parameters endomotor with stand
- external Apexlocator when the cable with electrodes is connected to the stand



ESTUS USB adapter

POWER: battery unit 1600 mAh or 800 mAh  
 SPEED : 200 - 9500 rpm; TORQUE: 0,1 - 5,1 Ncm  
 ROTARY ANGLE: 10° - 180°  
 BUILT-IN RADIO MODULE: 2,4 GHz (not <3 m)  
 DIMENSIONS: 210\*33\*51mm (without head) / WEIGHT: 140 g

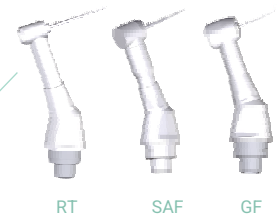
### Changable sterilizable heads

Easily replacing battery unit (2 types)



ESTUS SMART-B stand

ESTUS DRIVE endomotor - handpiece



RT

SAF

GF

ESTUS PUMP irrigation pump



POWER: battery 3.7V, 2000 mAh  
 DISPLAY: OLED (1,3")  
 BUILT-IN RADIO MODULE: 2,4 GHz (not <3 m)  
 DIMENSIONS: 100 \* 60 \* 40 mm /WEIGHT: 80 g

POWER: battery unit 1600 mAh  
 PUMP WORKING EFFICIENCY - 1-20 ml/min  
 BUILT-IN RADIO MODULE: 2,4 GHz (not <3 m)  
 DIMENSIONS: 118 \* 100 \* 60 mm /WEIGHT: 155 g

## ESTUS ADDITIONAL FUNCTIONS:

ESTUS ENERGY-S battery unit charge stand



ESTUS MULTI control unit



ESTUS DRIVE endomotor-handpiece



ESTUS PUMP (for operation with c SAF-files)



ESTUS ONE-B stand

- wide library of all famous NiTi rotary systems
- on/off TORQUE and/or APEXLOCATOR indications on the LED panel of the handpiece
- on/off the "Apical Slow Down" and/or Auto-reverse functions when the apex is reached
- setting and indication of all operating parameters of the endomotor using the "ESTUS MULTI" touch screen

**I. SETS WITH «RT» HEAD**

**I.I. without apexlocator, 5 fixed programs, battery unit with charging from «Estus Energy-S» charging stand**



**1. Set «Estus Drive (RT/Plus)»  
GE29-DR-P**

- Control unit «Estus Drive»
- Battery unit (1600 mAh)
- «RT» head
- Adapter for the heads lubrication
- Stand "Estus One-B"
- Charging stand "Estus Energy-S"
- Charger cable USB - USB-B
- Power adapter (1A)



**2. Set «Estus Drive (RT)»  
GE29-DR-0**

- Control unit «Estus Drive»
- Battery unit (1600 mAh)
- «RT» head
- Adapter for the heads lubrication

**I.II. with built-in apexlocator, 5 fixed programs, battery unit with charging from «Estus Energy-S» charging stand**



**3. Set «Estus Drive (RT+Apex/Plus)»  
GE29-DRA-P**

- Control unit «Estus Drive»
- Battery unit (1600 mAh)
- «RT» head
- Adapter for the heads lubrication
- Built-in apexlocator cable
- Lip clip «Oral Hook» for apexlocator
- Protective case for the "RT" head
- Stand "Estus One-B"
- Charging stand "Estus Energy-S"
- Charger cable USB - USB-B
- Power adapter (1A)



**4. Set «Estus Drive (RT+Apex)»  
GE29-DRA-0**

- Control unit «Estus Drive»
- Battery unit (1600 mAh)
- «RT» head
- Adapter for the heads lubrication
- Built-in apexlocator cable
- Lip clip «Oral Hook» for apexlocator
- Protective case for the "RT" head



**I.III. with built-in and external apexlocator, with the ability to change settings, battery unit with charging from «Estus Energy-S» charging stand**



**5. Set «Estus Drive (RT+Apex+Smart/Plus)» GE29-DRAS-P**

- Control unit «Estus Drive»
- Battery unit (1600 mAh)
- «RT» head
- Adapter for the heads lubrication
- Built-in apexlocator cable
- «Smart» stand «Estus Smart-B» for reprogramming motor parameters + external apexlocator
- Apexlocator cable for «Estus Smart-B»
- File clip "Probe Princh" for apexlocator
- Lip clip «Oral Hook» for apexlocator
- Protective case for the "RT" head
- Charger cable for «Estus Smart-B» (USB - microUSB)
- Charging stand "Estus Energy-S"
- Charger cable for "Estus Energy-S" (USB - USB-B)
- Power adapter (1A)

**I.IV. with built-in and external apexlocator, with the ability to change settings, battery unit with mains charging**



**6. Set «Estus Drive (RT+Apex+Smart/4)» GE29-DRAS-4**

- Control unit «Estus Drive»
- Battery unit (800 mAh/ Type-C)
- «RT» head
- Adapter for the heads lubrication
- Built-in apexlocator cable
- Lip clip «Oral Hook» for apexlocator
- Protective case for the "RT" head
- «Smart» stand «Estus Smart-B» for reprogramming motor parameters + external apexlocator
- Apexlocator cable for «Estus Smart-B»
- File clip "Probe Princh" for apexlocator
- Charger cable for «Estus Smart-B» (USB - microUSB)
- Charger cable for battery unit (USB - Type-C)
- Power adapter (1A)

**I.V. without built-in and external apexlocator, with the ability to change settings, battery unit with mains charging**



**7. Set «Estus Drive (RT+Smart/4)» GE29-DRS-4**

- Control unit «Estus Drive»
- Battery unit (800 mAh/ Type-C)
- «RT» head
- Adapter for the heads lubrication
- Smart» stand «Estus Smart-B» for reprogramming motor parameters
- Charger cable for «Estus Smart-B» (USB - microUSB)
- Charger cable for battery unit (USB - Type-C)
- Power adapter (1A)

**I.VI. 5 fixed programs, battery unit with mains charging**

**with built-in apexlocator**



**8. Set «Estus Drive (RT+Apex/4)» GE29-DRA-4**

- Control unit «Estus Drive»
- Battery unit (800 mAh/ Type-C)
- «RT» head
- Adapter for the heads lubrication
- Built-in apexlocator cable
- Lip clip «Oral Hook» for apexlocator
- Protective case for the «RT» head
- Charger cable for battery unit (USB - Type-C)
- Power adapter (1A)

**without apexlocator**



**9. Set «Estus Drive (RT/4)» GE29-DR-4**

- Control unit «Estus Drive»
- Battery unit (800 mAh/ Type-C)
- «RT» head
- Adapter for the heads lubrication
- Charger cable for battery unit (USB - Type-C)
- Power adapter (1A)

## II. SETS WITH «GF» HEAD

### II.I. battery unit with charging from «Estus Energy-S» charging stand



#### 10. Set «Estus Drive (GF/Plus)» GE29-DG-P

- Control unit «Estus Drive»
- Battery unit (1600 mAh)
- «GF» head
- Adapter for the heads lubrication
- Stand "Estus One-B"
- Charging stand "Estus Energy-S"
- Charger cable USB - USB-B
- Power adapter (1A)



#### 11. Set «Estus Drive (GF)» GE29-DG-0

- Control unit «Estus Drive»
- Battery unit (1600 mAh)
- «GF» head
- Adapter for the heads lubrication

### II.II. battery unit with mains charging



#### 12. Set «Estus Drive (GF/4)» GE29-DG-4

- Control unit «Estus Drive»
- Battery unit (800 mAh/ Type-C)
- «GF» head
- Adapter for the heads lubrication
- Charger cable for battery unit (USB - Type-C)
- Power adapter (1A)

## III. SET WITH «SAF» HEAD



#### 13. Set «Estus Drive (SAF/Plus)» GE29-DSAF-P

- Control unit «Estus Drive»
- Battery unit (1600 mAh)
- «SAF» head
- Adapter for the heads lubrication
- Stand "Estus One-B"
- Irrigation pump «Estus Pump» (full set)
- Charging stand "Estus Energy-S"
- Charger cable USB - USB-B
- Power adapter (1A)

**IV. SET WITH THREE HEADS («RT», «GF», «SAF»)**



**14. Set «Estus Drive (RT+Apex+GF+SAF/Plus)» GE29-DRAGSAF-P**

- Control unit «Estus Drive»
- Battery unit (1600 mAh)
- «RT», «GF», «SAF» heads
- Adapter for the heads lubrication
- Built-in apexlocator cable
- Lip clip «Oral Hook» for apexlocator
- Protective case for the “RT” head
- Stand “Estus One-B”
- Irrigation pump «Estus Pump» (full set)
- Charging stand “Estus Energy-S”
- Charger cable USB - USB-B
- Power adapter (1A)

**ADDITIONALLY:**



**Apexlocator - Control unit «Estus Multi» GE28-MU**

- Apexlocator - Control unit
- Apexlocator cable (USB-B-plug)
- File clip «Probe Pinch»
- Lip clip «Oral Hook»
- Apexlocator tester
- Charger cable USB - USB-B
- Power adapter (2A)

**Accessories**



- RT» head with green ring GE99.202.000
- SAF» head with blue ring GE99.203.000
- GF» head with red ring GE99.204.000
- Battery unit (1600 mAh) GE99.205.000
- Battery unit (800 mAh/Type-C) GE99.250.000
- Wireless adapter "Estus USB" GE41.000.000 for reprogramming motor settings with using a special program on the site manufacturer



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## MINIATURE APEXLOCATOR ESTUS APEX

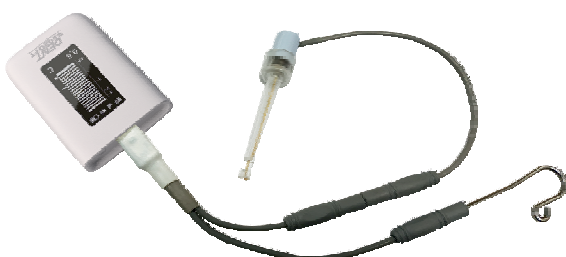


## MINIATURE APEXLOCATOR

### ESTUS APEX



- **Light weight (20 g) and small size** allow to locate the device right in the dentist's working zone (ex., on the patient apron), which means:
  - comfort and safe work,
  - prolongation of signal cables service life,
  - dentist's workplace space saving
- **Additional sound control** thanks to 3 volume levels and a changing frequency of the sound signal, which increases as the instrument approaches the apex
- **Function of forming APICAL STOP** provides the file stop and forming the on the set distance to apex to prevent filling material withdrawal into the periodontal tissues
- **The "Mark setting" function**, which allows to mark the canal curvature zones or file stop points during the measurement of the working length for a more predictable canal sealing process.
- **Built-in demo mode**



**ESTUS APEX** - unique miniature digital apexlocator able to adjust measurement depending on the irrigant solution.

#### FEATURES AND BENEFITS:

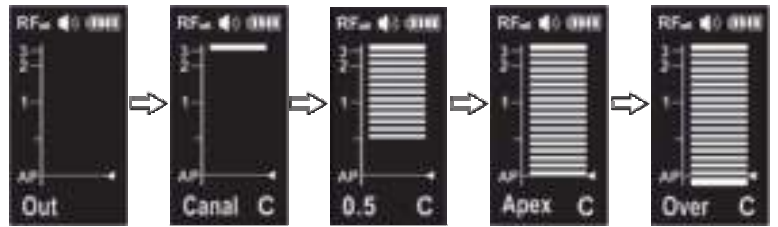
- **High stability of measurements in any root canal conditions** (dry, wet, bleeding etc) thanks to the latest multi-frequency technology with digital dynamic filtering of computations that is why it does not require calibration.
- **Increased accuracy at working in wet canal** due to ability to correct measurement depending on irrigation solution:
  - Sodium hypochlorite (NaOCl),
  - Chlorhexidine or
  - EDTA
- **Well-read bright and contrast OLED display** with wide vision angle (170°) for the high-quality vision of the instrument motion in a canal



- **Battery unit power, rapid charging** - full charge is in 45 minutes
- **Low power consumption** - not less than 1 month continuous work without battery recharge
- **Autoclavable working parts** - file clip and lip clip
- **ESTUS APEX can perform either as autonomous device or as a part of ESTUS dental complex**, the main part of which is ESTUS MULTI control unit.

## FUNCTIONS OF AUTONOMOUS OPERATION:

- Apical constriction localization of a root canal within the range of 3,0 to 0,0 units.
- Digital, graphical and audio indication of the current position of the file in the canal
- Audio signals volume adjusting
- Measurements correction function depending on irrigation solution type: **C** - chlorhexidine, **H** - sodium hypochlorite (NaOCl), **E** - EDTA
- The function of forming an apical stop in the range from 0.1 to 1.0 units up to apex
- "Mark Settings" function



POWER: battery 3,7V, 250 mAh  
 DISPLAY: OLED (1,3")  
 MEASUREMENT RANGE: from 3,0 to 0,0 unit  
 BUILT-IN RADIO MODULE: 2,4 GHz (not < 3m)  
 DIMENSIONS: 53\*38\*13 mm, CABLE LENGTH: 15 cm  
 WEIGHT: 20 g (without cable and electrodes)

ESTUS APEX apex locator

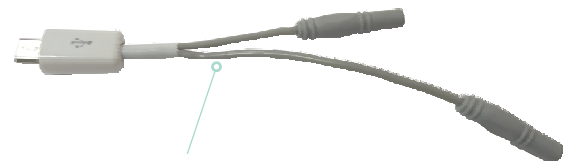
Jack for apex locator cable connection



Autoclavable electrodes: file clip and lip clip



Apex locator cable



## ESTUS ADDITIONAL FUNCTIONS:

- **Wireless communication with the ESTUS MULTI control unit using a radio channel**
- **Digital and graphical indication of the current position of the file in the canal on the ESTUS MULTI control unit:**

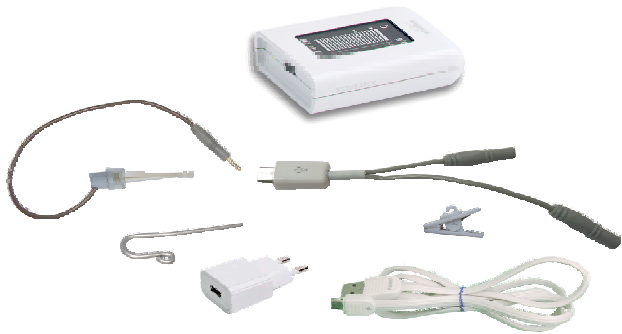
ESTUS MULTI control unit



ESTUS APEX apex locator







**1. Set «Estus Apex»  
GE37-AP**

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- Apexlocator «Estus Apex»
- Apexlocator cable (microUSB-plug)
- File clip «Probe Princh»
- Lip clip «Oral Hook»
- Cable clamp
- Charger cable (USB – microUSB)
- Power adapter (1A)



**2. Set «Estus Multi» (Multi+Apex)  
GE28-MU-AP**

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- Apexlocator - Control unit «Estus Multi»
- Apexlocator «Estus Apex»
- Apexlocator cable «Estus Apex» (microUSB-plug)
- File clip «Probe Princh»
- Lip clip «Oral Hook»
- Cable clamp
- Charger cable for «Estus Multi» (USB – USB-B)
- Charger cable for «Estus Apex» (USB – microUSB)
- Power adapter (2A)





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## APEXLOCATOR - CONTROL UNIT ESTUS MULTI



## APEXLOCATOR - CONTROL UNIT

### ESTUS MULTI



#### FEATURES AND BENEFITS:

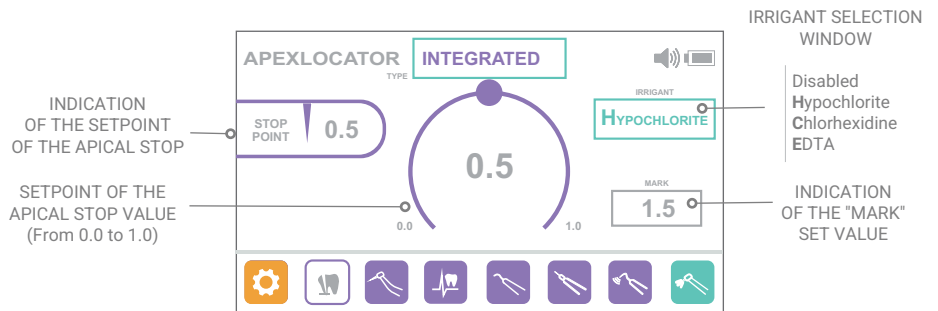
- **High stability of measurements in any root canal conditions** (dry, wet, bleeding etc) thanks to the latest multi-frequency technology with digital dynamic filtering of computations that is why it does not require calibration.
- **Increased accuracy at working in wet canal** due to ability to correct measurement depending on irrigation solution:
  - Sodium hypochlorite (NaOCl),
  - Chlorhexidine or
  - EDTA
- **Bright, color Touch-display** for easy adjustment of the operating parameters of the apexlocator and for the high-quality vision of the file motion in a canal
- **Additional sound control** thanks to 3 volume levels and a changing frequency of the sound signal, which increases as the instrument approaches the apex

- **Function of forming APICAL STOP** provides the file stop and forming the on the set distance to apex to prevent filling material withdrawal into the periodontal tissues

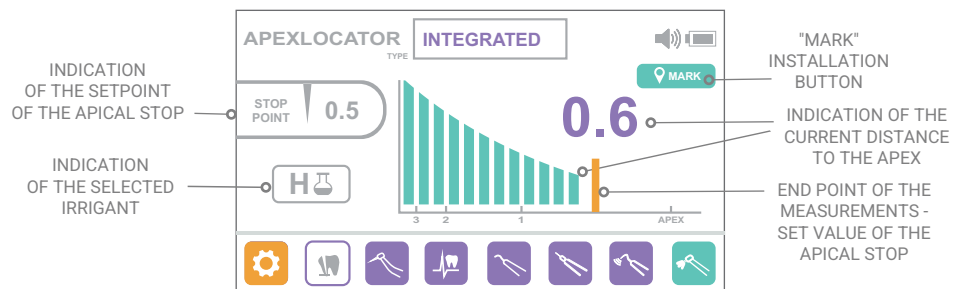
- **The "Mark setting" function**, which allows to mark the canal curvature zones or file stop points during the measurement of the working length for a more predictable canal sealing process.

- **Autoclavable working parts** - file clip and lip clip

APEXLOCATOR SETTINGS MODE WINDOW:



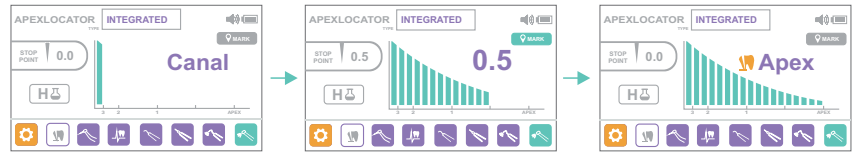
WINDOW OF THE APEXLOCATOR MEASUREMENT MODE



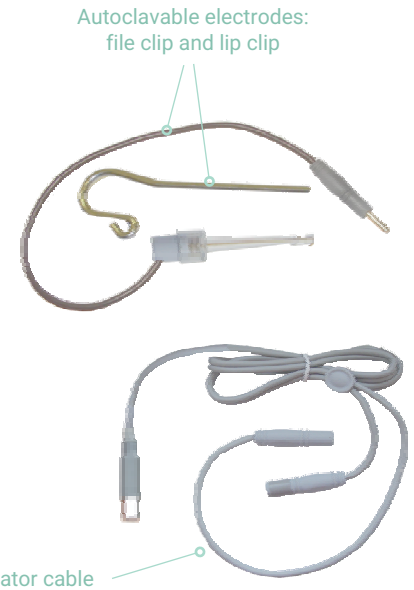
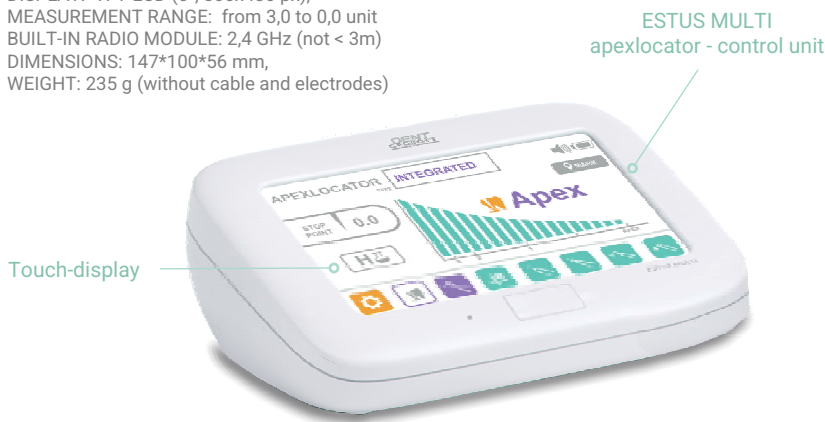
- **Two modes of "ESTUS MULTI" operating:**
  - 1) Autonomous mode as apexlocator
  - 2) Control unit for functional devices as part of the ESTUS Dental Complex

## FUNCTIONS OF AUTONOMOUS OPERATION:

- Apical constriction localization of a root canal within the range of 3,0 to 0,0 units.
- Digital, graphical and audio indication of the current position of the file in the canal
- Audio signals volume adjusting
- Measurements correction function depending on irrigation solution type: **C** - chlorhexidine, **H** - sodium hypochlorite (NaOCl), **E** - EDTA
- The function of forming an apical stop in the range from 0.1 to 1.0 units up to apex
- "Mark Settings" function



POWER: battery 3,7V, 4100 mAh  
 DISPLAY: TFT-LCD (5", 800x480 px);  
 MEASUREMENT RANGE: from 3,0 to 0,0 unit  
 BUILT-IN RADIO MODULE: 2,4 GHz (not < 3m)  
 DIMENSIONS: 147\*100\*56 mm,  
 WEIGHT: 235 g (without cable and electrodes)



## ESTUS ADDITIONAL FUNCTIONS:

- **Wireless communication "ESTUS MULTI" over the radio channel with all functional devices of the complex "ESTUS"**
- **Setting and indication of all operating parameters of the paired devices of the complex using the Touch-display "ESTUS MULTI"**





### 1. Set «Estus Multi» GE28-MU

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- Apexlocator - Control unit «Estus Multi»
- Apexlocator cable (USBB-plug)
- File clip «Probe Princh»
- Lip clip «Oral Hook»
- Apexlocator tester
- Charger cable USB - USB-B
- Power adapter (2A)



### 2. Set «Estus Multi» (Multi+Apex) GE28-MU-AP

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- Apexlocator - Control unit «Estus Multi»
- Apexlocator «Estus Apex»
- Apexlocator cable «Estus Apex» (microUSB-plug)
- File clip «Probe Princh»
- Lip clip «Oral Hook»
- Cable clamp
- Charger cable for «Estus Multi» (USB – USB-B)
- Charger cable for «Estus Apex» (USB – microUSB)
- Power adapter (2A)



# ESTÜS

NEXT  
EVOLUTION OF  
ENDODONTIC  
TECHNOLOGIES

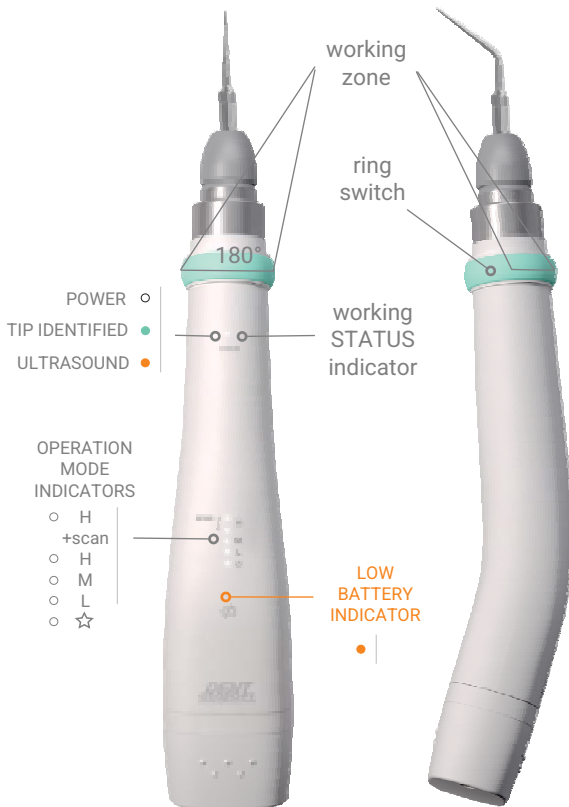
## ENDODONTIC SCALER ESTUS SONIC



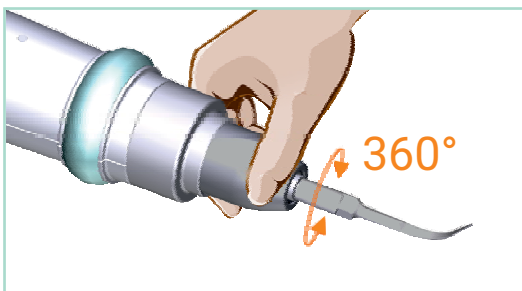
# ENDO SCALER

## ESTUS SONIC

DEVICE CONTROLS AND INDICATION:



MODE	ULTRASOUND POWER (IN % OF MAX.)	CYCLE DURATION
«H» - HIGH	100%	30 sec
«M» - MIDDLE	70%	30 sec
«L» - LOW	50%	30 sec



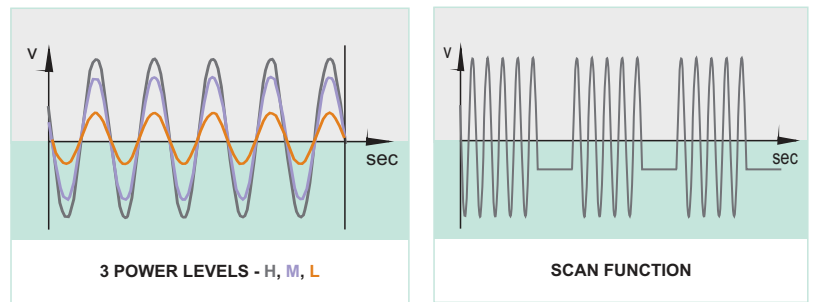
FEATURES AND BENEFITS:

- Multifunctionality:**
  - finding and breaking into hidden canals and access enhancement;
  - removing of the calcific dental deposit and ledges;
  - root canals unsealing (removing gutta-percha);
  - extraction of endodontic instruments fragments;
  - removing of the post constructions;
  - condensing of gutta-percha;
  - safe endoactivation of irrigants and ultrasonic treatment of the canal with a unique Ni-Ti tip;
  - apical surgery.
- Optimum ultrasonic mode** due to automatic recognition of the connected tip, selection of the operating frequency and its stabilization.
- The ability to rotate the tip** by 360°, facilitating access to different groups of teeth.
- Three levels of ultrasonic power** for different clinical cases.
- Resonant Frequency Scanning (Modulation) Function** of the of the connected tip for more efficient cleaning of the root canal due to the destruction of the lubricated layer and biofilm.
- Maximal comfort in operation** is provided by a single button - Ring Switch. Convenient both for left - and right-handers.
- Prevention** of accidental switch on due to restriction of working zone (upper 180°) of Ring Switch.
- Excellent ergonomic characteristics of handpiece:**
  - specifically designed, provides a super balanced position in the dentist's hand,
  - low weight and excellent visibility of indicators location is in the direct closeness to the working zone.
- 1600 mAh easily replaceable battery units** always keep the handpiece in operating condition.
- Long-term operation without recharging the battery** - not less 100 working cycles.
- ESTUS SONIC can perform either as autonomous device or as a part of ESTUS dental complex**, the main part of witch is ESTUS MULTI control unit.

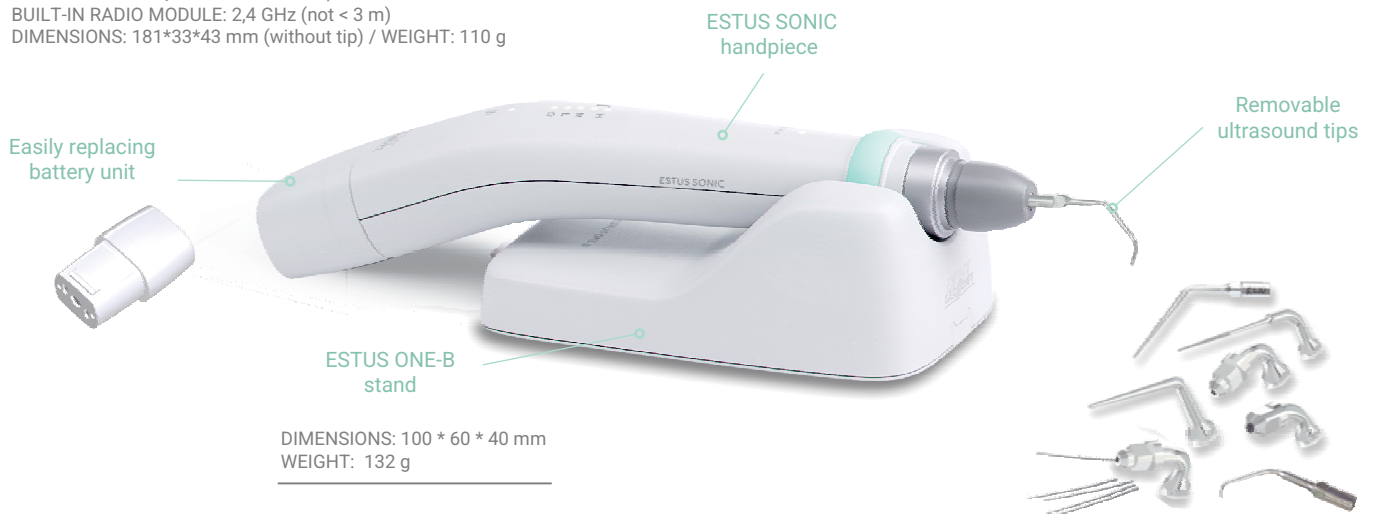
## FUNCTIONS OF AUTONOMOUS OPERATION:

- **3 LEVELS OF ULTRASONIC POWER**  
«H» - high, «M» - middle, «L» - low
- **RESONANT FREQUENCY SCANNING FUNCTION** «SCAN»

THE AMPLITUDE OF THE ACOUSTIC RADIATION OF THE TIP



POWER: battery unit 1600 mAh  
 MAXIMUM POWER - 6 W;  
 RESONANCE FREQUENCY - 34-45 kHz;  
 BUILT-IN RADIO MODULE: 2,4 GHz (not < 3 m)  
 DIMENSIONS: 181\*33\*43 mm (without tip) / WEIGHT: 110 g



## ESTUS ADDITIONAL FUNCTIONS:

- **Wireless communication** with the ESTUS MULTI control unit using a radio channel
- Setting and indication of the operating parameters of the endo scaler using the ESTUS MULTI touch screen







**1. Set «Estus Sonic (Plus)»  
GE35-SP**

- Control unit «Estus Sonic»
- Battery unit (1600 mAh)
- Tip «E4ES» 22mm
- Tip «E5DES» 16mm with diamond-coated
- Tip-endochuck «E1/07ES» with file (22mm)
- Hygienic case
- Wrench for tips
- Stand «Estus One-B»
- Charging stand «Estus Energy-S»
- Charger cable USB - USB-B
- Power adapter (1A)



**2. Set «Estus Sonic»  
GE35-S0**

- Control unit «Estus Sonic»
- Battery unit (1600 mAh)
- Tip «E4ES» 22mm
- Tip «E5DES» 16mm with diamond-coated
- Tip-endochuck «E1/07ES» with file (22mm)
- Hygienic case
- Wrench for tips

**ADDITIONALLY:**



**Apexlocator - Control unit  
«Estus Multi» GE28-MU**

- Apexlocator - Control unit
- Apexlocator cable (USBB-plug)
- File clip «Probe Princh»
- Lip clip «Oral Hook»
- Apexlocator tester
- Charger cable USB - USB-B
- Power adapter (2A)



**Accessories**

- «E1/08ES» tip-endochuck. GE99.228.000
- «E1/07ES» tip-endochuck. GE99.247.000
- «E3ES» tip. GE99.230.000
- «E3DES» tip. GE99.232.000
- «E4ES» tip. GE99.233.000
- «E4DES» tip. GE99.235.000
- «E5ES» tip. GE99.236.000
- «E5DES» tip. GE99.237.000
- «E10ES» tip. GE99.241.000
- «E10DES» tip. GE99.242.000
- «E11ES» tip. GE99.243.000
- «E11DES» tip. GE99.244.000
- Ni-Ti files for tip-endochuck «E1/08ES» GE99.246.000
- Files for tip-endochuck «E1/07ES» (in assortment)
- Battery unit (1600 mAh) GE99.205.000



# ESTÜS

NEXT  
EVOLUTION OF  
ENDODONTIC  
TECHNOLOGIES

3-D ROOT CANAL OBTURATION DEVICES

ESTUS PACK

ESTUS FILL

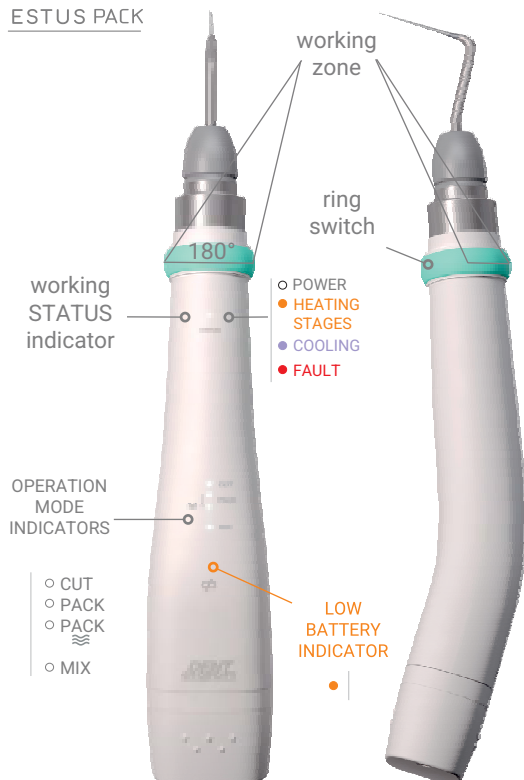


## ESTUS PACK

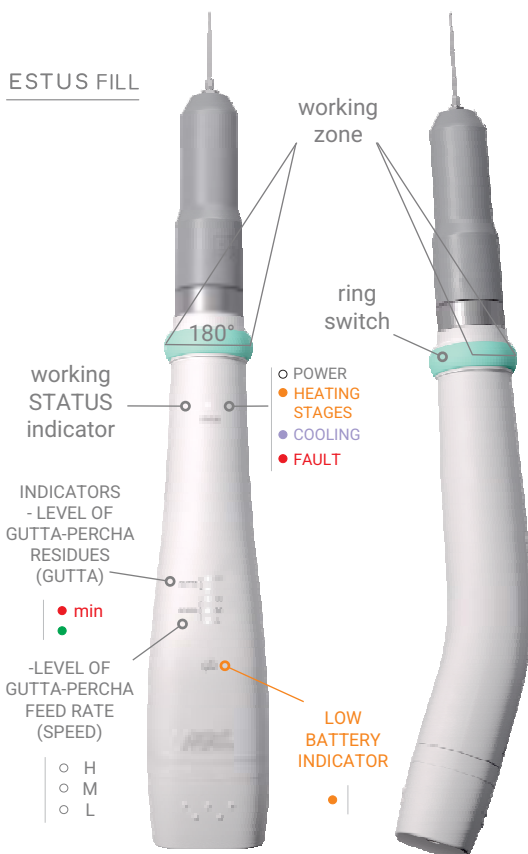
### ESTUS FILL

#### DEVICE CONTROLS AND INDICATION:

ESTUS PACK



ESTUS FILL



#### FEATURES AND BENEFITS:

- **DownPack-handpiece ESTUS PACK of a new generation provides:**
    - high quality vertical condensation,
    - cutting of gutta-percha points,
    - heat endoactivation of irrigational solution
  - **Safe thermopluggers with integrated sensor feedback allows:**
    - to ensure high accuracy of maintaining the set working temperature,
    - to decrease the working temperature in a root canal down to 100°C, which causes:
      - reducing of thermopluggers heating time down to the set working temperature (not > 1,5 sec),
      - prevention of gutta-percha over-heating that worsens its characteristics,
      - prolongation of save canal treatment without risk of periodontal tissues over-heating,
      - prolongation of thermopluggers service life
  - **There are 3 types quick-detachable and autoclavable thermopluggers for different stages of root canal obturation:**
    - obturation of the apical zone,
    - obturation of the upper 2/3 canal,
    - cutting of gutta-percha points
  - **Possibility to fix the thermopluggers in 1 of the 6 available positions**
  - **Effective condensation of gutta-percha thanks to vibration function**
- 
- **BackFill-handpiece ESTUS FILL - the only syringe type injector is able to work with cost effective gutta-percha obturators**
  - **Easy detachable autoclavable heater**
  - **Time to prepare device ready for operation doesn't exceed 20 sec** (heating an injector needle and softening gutta-percha)
  - **Two modes of heated gutta-percha delivery:**
    - PORTION mode for the one-stage of an apical plug creation,
    - CONTINUOUS mode for filling of middle and upper parts of the root canal
  - **Three feed rates** of heated gutta-percha
  - **Safe performance** - the heater corpus temperature doesn't exceed 45°C
  - **High-quality consumables:** gutta-percha obturators and two size types of Injector needles (№23G and №25G)
  - Fully charged battery is enough for injection of **50 pcs of gutta-percha obturators**

COMPLETE SAFETY

FULL POWER SUPPLY CAPACITY AND SECURITY

- **Maximal comfort in operation** is provided by a single button - Ring Switch, especially for endodontists working with endomicroscopes. Convenient both for left- and right-handers.
- **Prevention** of accidental switch on due to restriction of working zone (upper 180°) of Ring Switch
- **Constant readiness to work** because of the powerful (capacity 1600 mAh) and easy **removable battery units**
- **Excellent ergonomic characteristics of handpieces:**
  - specifically designed, provides a super balanced position in the dentist's hand,
  - low weight and excellent visibility of indicators location is in the direct closeness to the working zone
- **Handpieces can perform either as autonomous device or as a part of ESTUS dental complex**, the main part of which is ESTUS MULTI control unit.
- **Flexible configuration of delivery:** handpieces could be got either separately with stand ESTUS ONE-B, or together with double stand ESTUS TWO-B

## FUNCTIONS OF AUTONOMOUS OPERATION:

### ESTUS PACK:

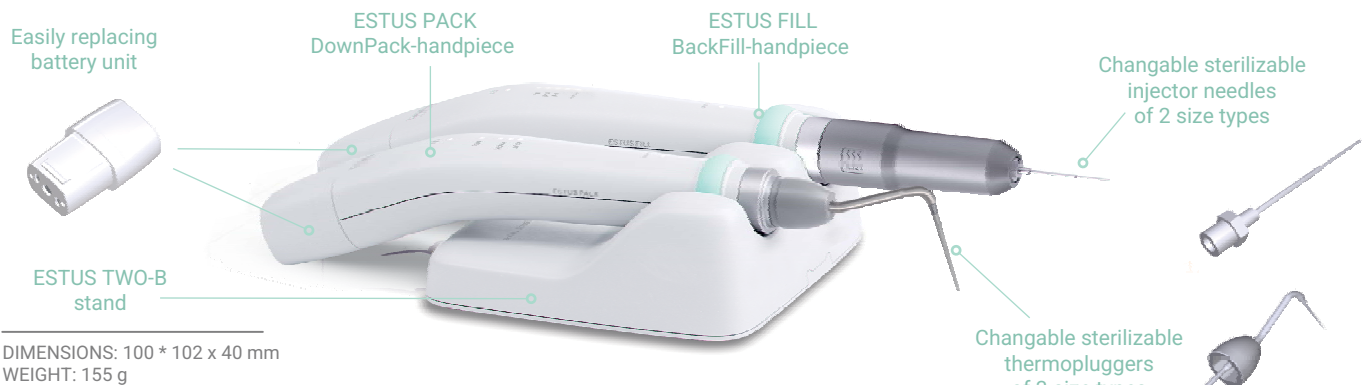
«CUT» - CUTTING of gutta-percha points (150°C, max.7 sec.),  
 «PACK» - OBTURATION WITHOUT VIBRATION (100°C, max 12 sec),  
 «PACK + ≈» - OBTURATION WITH VIBRATION (100°C, max 12 sec, vibration),  
 «MIX» - HEAT ACTIVATION OF IRRIGATION SOLUTION (50 °C, max. 120 sec. + vibration)

POWER: battery unit 1600 mAh  
 TEMPERATURE OF OPERATION - from 50°C to 150°C  
 TIME OF HEATING UNTIL 150°C - not > 1,5 sec  
 MAX NUMBER OF HEATING CYCLES W/O BATTERY RECHARGE - 75  
 BUILT-IN RADIO MODULE: 2,4 GHz (not < 3 m)  
 DIMENSIONS: 207 \* 33 \* 43 mm (without thermoplugger) / WEIGHT: 80 g

### ESTUS FILL:

- temperature of heated Injector needle –up to 180°C  
 - **2 modes of administration of heated gutta-percha:** Portion and Continuous modes  
 - **3 feed rates** of heated gutta-percha  
 - **indication of current level of gutta-percha remnant inside the heater**

POWER: battery unit 1600 mAh  
 TEMPERATURE OF OPERATION - 180°C  
 TIME OF HEATING - not > 20 sec  
 MAX NUMBER OF HEATING CYCLES W/O BATTERY RECHARGE - 50  
 BUILT-IN RADIO MODULE: 2,4 GHz (not < 3 m)  
 DIMENSIONS: 240 \* 33 \* 43 mm (without heater) / WEIGHT: 115 g



## ESTUS ADDITIONAL FUNCTIONS:

- The extended scope of regulation of the operative temperature
- Display indication, both Digital and Graphical, is effected by ESTUS MULTI to tell the operative temperature
- ESTUS MULTI Display indicates actual level of gutta-percha remnant inside the Heater, if the operation is performed with handpiece ESTUS FILL





**1. Set «Estus Pack (Plus)»  
GE31E-PP**

- Control unit «Estus Pack»
- Battery unit (1600 mAh)
- Thermopluggers «M» (04/50)
- Stand "Estus One-B"
- Charging stand "Estus Energy-S"
- Charger cable USB - USB-B
- Power adapter (1A)



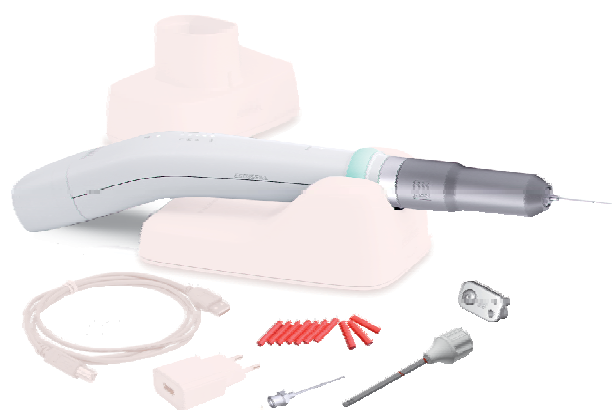
**2. Set «Estus Pack»  
GE31E-P0**

- Control unit «Estus Pack»
- Battery unit (1600 mAh)
- Thermopluggers «M» (04/50)



**3. Set «Estus Fill (Plus)»  
GE32-FP**

- Control unit «Estus Fill»
- Battery unit (1600 mAh)
- Heater «Estus Fill»
- 2 Injector needles (23G and 25G)
- Gutta-percha obturators (10 pcs.)
- Cleaning and level measuring tool gutta-percha in a heater
- Multi-functional wrench for injector needle
- Stand "Estus One-B"
- Charging stand "Estus Energy-S"
- Charger cable USB - USB-B
- Power adapter (1A)



**4. Set «Estus Fill»  
GE32-F0**

- Control unit «Estus Fill»
- Battery unit (1600 mAh)
- Heater «Estus Fill»
- 2 Injector needles (23G and 25G)
- Gutta-percha obturators (10 pcs.)
- Cleaning and level measuring tool gutta-percha in a heater
- Multi-functional wrench for injector needle

## DEVICE SUPPLY SET:



### 5. Set «Estus Pack-Fill» GE40E-P-F

- Control unit «Estus Pack»
- Control unit «Estus Fill»
- 2 Battery unit (1600 mAh)
- Thermopluggers «S» (02/45)
- Thermopluggers «M» (04/50)
- Thermopluggers «L» (08/55)
- Heater «Estus Fill»
- 2 Injector needles (23G and 25G)
- Gutta-percha obturators (10 pcs.)
- Cleaning and level measuring tool gutta-percha in a heater
- Multi-functional wrench for injector needle
- Stand "Estus Two -B" (double)
- Charging stand "Estus Energy-D" (double)
- Charger cable USB - USB-B
- Power adapter (2A)

## ADDITIONALLY:



### Apexlocator - Control unit «Estus Multi» GE28-MU

- Apexlocator - Control unit
- Apexlocator cable (USB-B-plug)
- File clip «Probe Princh»
- Lip clip «Oral Hook»
- Apexlocator tester
- Charger cable USB - USB-B
- Power adapter (2A)



### Accessories

- Gutta-percha obturators (100 pcs)  
GE99.188.000
- Injector needles (23G/4 pcs)  
GE99.186.000
- Injector needles (25G/4 pcs)  
GE99.187.000
- Battery unit (1600 mAh) GE99.205.000

# ESTUS

- ESTUS project -tested by the “American Association of Endodontists” under the guidance of Professor Stephen Buchanan.



Dr. L. Stephen Buchanan, D.D.S., FACD, FICD







# ESTÜS

NEXT  
EVOLUTION OF  
ENDODONTIC  
TECHNOLOGIES

LIGHT CURING DEVICE

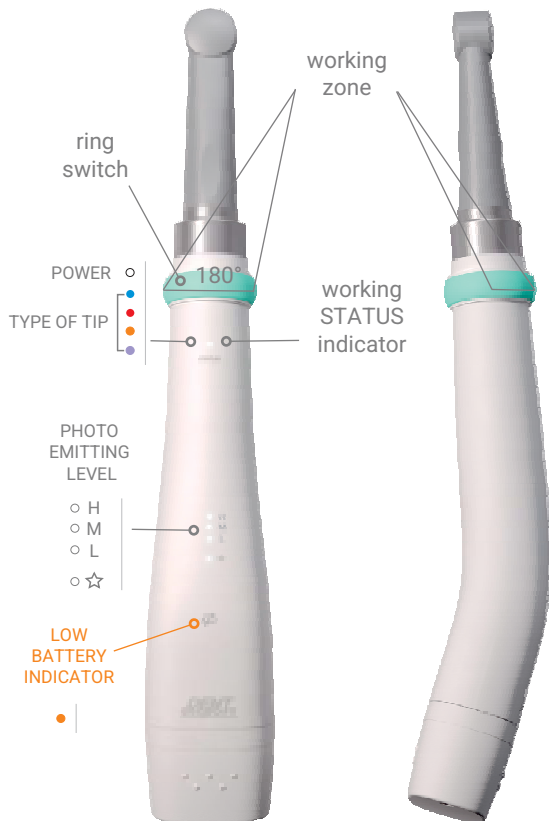
## ESTUS LIGHT



## LIGHT CURING DEVICE

### ESTUS LIGHT

#### DEVICE CONTROLS AND INDICATION:



#### FEATURES AND BENEFITS:

- Multifunctionality** thanks to 8 types of tips with a different emission spectrum:
  - BLUE2500 and BLUE1500 for the polymerization of composite materials (440-475 nm) with max. power of 2500 mW/cm<sup>2</sup> and 1500 mW/cm<sup>2</sup>, respectively
  - FULL BLUE for the polymerization of composite materials (400-475 nm) with max. power 2500 mW/cm<sup>2</sup>
  - BLUE POINT for "point" polymerization of composite materials (440-475 nm)
  - RED660 for the photodynamic therapy (650-670 nm)
  - ORANGE for the transillumination (585-595 nm)
  - LUMI for the luminescent diagnostics (400-420 nm)
  - BLUE-ORANGE for the polymerization of composite materials (440-475 nm) with max. power of 1500 mW/cm<sup>2</sup> and for the transillumination (585-595 nm)
- Automatic detection** of the attached tip type with automatic adjustment of the device to the selected mode of operation
- Tip ability to rotate** through 360° and **flat design**, making access to the chewing group of patient teeth easier
- Increased output emission of the photoemitter** (up to 2500 mW/cm<sup>2</sup>).
- Maximal comfort in operation** is provided by a single button - Ring Switch. Convenient both for left - and right-handers.
- Prevention** of accidental switch on due to restriction of working zone (upper 180°) of Ring Switch
- Excellent ergonomic characteristics of handpiece:**
  - specifically designed, provides a super balanced position in the dentist's hand,
  - low weight and excellent visibility of indicators location is in the direct closeness to the working zone
- Easily replaceable battery units** always keep the handpiece in operating condition. 2 types of blocks - with mains charging or using a charging stand
- Long-term operation** without recharging the battery - up to 500 exposures of 5 seconds each.
- ESTUS LIGHT can perform either as autonomous device or as a part of ESTUS dental complex**, the main part of which is ESTUS MULTI control unit.





## FUNCTIONS OF AUTONOMOUS OPERATION:

### 2 OPERATION MODES:

- Therapy (Blue, Full Blue and Red light)
- Diagnostics (Orange and Ultraviolet light)

- "Soft start" in polymerization mode

- 3 PHOTO EMITTING LEVELS in each mode:

MODE	THERAPY			DIAGNOSTICS
LEVEL / COLOR	BLUE 2500	BLUE 1500	RED	ORANGE, LUMI
«H» - HIGH	2500 mW/cm <sup>2</sup> , 5 sec	1500 mW/cm <sup>2</sup> , 10 sec	1000 mW/cm <sup>2</sup> , 30 sec	#9, 300 sec
«M» - MIDDLE	1500 mW/cm <sup>2</sup> , 10 sec	1000 mW/cm <sup>2</sup> , 20 sec	800 mW/cm <sup>2</sup> , 60 sec	#5, 300 sec
«L» - LOW	1000 mW/cm <sup>2</sup> , 20 sec	500 mW/cm <sup>2</sup> , 30 sec	600 mW/cm <sup>2</sup> , 90 sec	#1, 300 sec

POWER: battery unit 1600 mAh or 800 mAh  
 BUILT-IN RADIO MODULE: 2,4 GHz (not < 3 m)  
 DIMENSIONS: 215\*33\*43 mm (without tip) / WEIGHT: 95 g



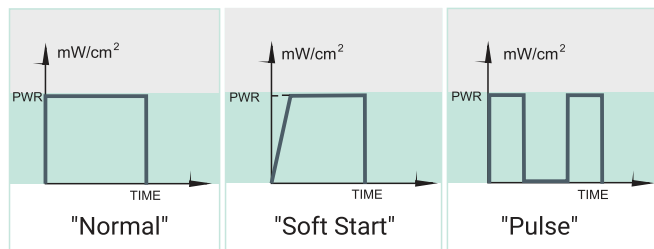
## ESTUS ADDITIONAL FUNCTIONS:

- Additional mode "☆" with user settings:

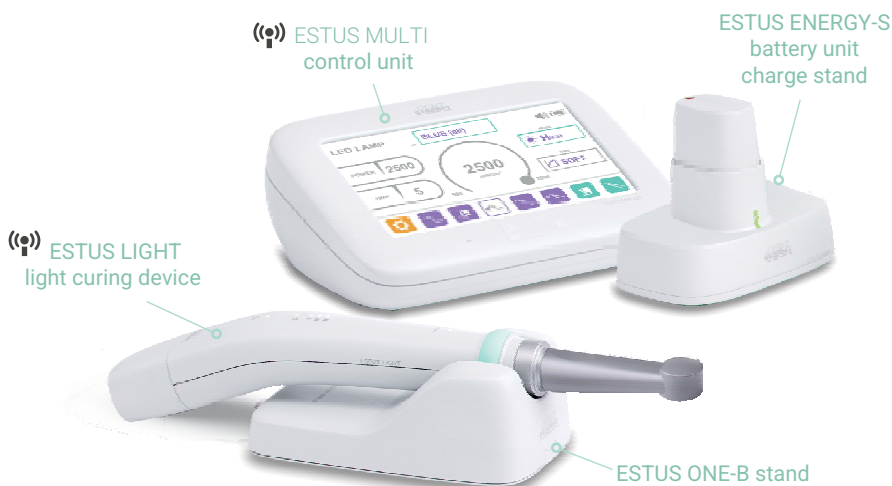


- Photo emitting power adjustment and Programmable timer within:

- 500 - 2500 mW/cm<sup>2</sup> / 5 - 20 sec with "BLUE 2500" tip and "FULL BLUE" tip or
- 300 - 1500 mW/cm<sup>2</sup> / 5 - 45 sec with "BLUE 1500" tip



- 3 modes of polymerization: "Normal", "Soft start" and "Pulse"



- Expanded adjustment of photo emitting power of RED LED ranging 300 - 1500 mW/cm<sup>2</sup>
- Programmable timer -30 - 90 sec
- Advanced selection of the photoemitter intensity in the diagnostic modes - # 1 - # 9

**I. sets with one tip and battery unit with charging from «Estus Energy-S» charging stand**



**1-8. Sets «Estus Light (Plus)»: GE34  
BL2500-P, BL1500-P, FB-P, BP-P, OR-P, RED660-P,  
LU-P, BL/OR-P**

- Control unit «Estus Light»
- Battery unit (1600 mAh)
- Tip for polymerization «BLUE 2500»\*
- Tip for polymerization «BLUE 1500»\*
- Tip for polymerization «FULL BLUE»\*
- Tip for «point» polymerization «BLUE POINT»\*
- Tip for transillumination «ORANGE»\*
- Tip for photodynamic therapy «RED 660»\*
- Tip for luminescent diagnostics «LUMI»\*
- Tip for polymerization and transillumination «BLUE-ORANGE»\*
- Stand "Estus One-B"
- Charging stand "Estus Energy-S"
- Charger cable USB - USB-B
- Power adapter (1A)

**9-16. Sets «Estus Light»: GE34  
BL2500-0, BL1500-0, FB-0, BP-0, OR-0, RED660-0,  
LU-0, BL/OR-0**

- Control unit «Estus Light»
- Battery unit (1600 mAh)
- Tip for polymerization «BLUE 2500»\*
- Tip for polymerization «BLUE 1500»\*
- Tip for polymerization «FULL BLUE»\*
- Tip for «point» polymerization «BLUE POINT»\*
- Tip for transillumination «ORANGE»\*
- Tip for photodynamic therapy «RED 660»\*
- Tip for luminescent diagnostics «LUMI»\*
- Tip for polymerization and transillumination «BLUE-ORANGE»\*

*\* One tip included in the delivery package at the customer's choice*

**II. sets with a set of tips and battery unit with charging from «Estus Energy-S» charging stand**



**17. Set «Estus Light» (5/Plus)  
GE34-FB/BP/OR/RED660/LU-P**

- Control unit «Estus Light»
- Battery unit (1600 mAh)
- Tip for polymerization «FULL BLUE»
- Tip for «point» polymerization «BLUE POINT»
- Tip for transillumination «ORANGE»
- Tip for photodynamic therapy «RED 660»
- Tip for luminescent diagnostics «LUMI»
- Stand "Estus One-B"
- Charging stand "Estus Energy-S"
- Charger cable USB - USB-B
- Power adapter (1A)

III. sets with one tip and battery unit with mains charging



18-23. Sets «Estus Light (4)»: GE34  
BL1500-4, BP-4, OR-4, RED660-4, LU-4, BL/OR-4

- Control unit «Estus Light»
- Battery unit (800 mAh/ Type-C)
- Tip for polymerization «BLUE 1500»\*
- Tip for «point» polymerization «BLUE POINT»\*
- Tip for transillumination «ORANGE»\*
- Tip for photodynamic therapy «RED 660»\*
- Tip for luminescent diagnostics «LUMI»\*
- Tip for polymerization and transillumination «BLUE-ORANGE»\*
- Charger cable for battery unit (USB - Type-C)
- Power adapter (1A)

\* One tip included in the delivery package at the customer's choice

ADDITIONALLY:



Apexlocator - Control unit  
«Estus Multi» GE28-MU

- Apexlocator - Control unit
- Apexlocator cable (USBB-plug)
- File clip «Probe Princh»
- Lip clip «Oral Hook»
- Apexlocator tester
- Charger cable USB - USB-B
- Power adapter (2A)

Accessories

- Tip «BLUE 2500»\* GE99.223.000
- Tip «BLUE 1500» GE99.249.000
- Tip «FULL BLUE»\* GE99.221.000
- Tip «BLUE POINT» GE99.220.000
- Tip «ORANGE» GE99.152.000
- Tip «RED 660» GE99.196.000
- Tip «LUMI» GE99.219.000
- Tip «BLUE-ORANGE» GE99.271.000
- Battery unit (1600 mAh) GE99.205.000
- Battery unit (800 mAh/Type-C) GE99.250.000\*\*

\* can only be used with 1600mAh battery units

\*\* can not be used with "BLUE 2500" and "FULL BLUE" tips



Working with a «BLUE 2500» tip



Working with a «BLUE POINT» tip



Working with a «ORANGE» tip



Working with a «RED660» tip



Working with a «LUMI» tip

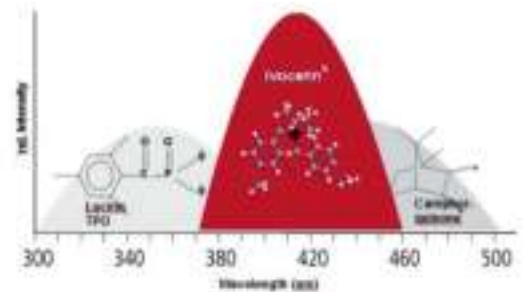
## 1. POLYMERIZATION OF COMPOSITE MATERIALS

Photopolymerization of composite light-curing filling materials containing:

- the traditional photoinitiator camphorquinone, which polymerizes in the blue light spectrum in the range of 440-475 nm, as well as
- photoinitiators of the new generation, additionally polymerizing in the ultraviolet light spectrum in the range of 400-420 nm (for example, IVOCERIN from Ivoclar Vivadent company)

The function is implemented when using the following tips:

- «BLUE 2500» - high power tip for traditional photoinitiators,
- «BLUE 1500» - standard power tip for traditional photoinitiators,
- «BLUE POINT» - a tip for "point" polymerization of traditional photoinitiators (for example, for installation of veneers),
- «FULL BLUE» - high power tip for traditional photoinitiators and new generation photoinitiators (like IVOCERIN).
- «BLUE-ORANGE» - standard power tip for traditional photoinitiators.



## 2. TRANSILLUMINATION

Diagnostics of initial carious changes, hidden carious cavities or defects, enamel cracks, control quality of restoration and adaptation of composite materials to the hard tissue of the tooth using a light source, emitting in the orange light spectrum in the range of 585-595 nm

The function is realized when using the tips «ORANGE» or «BLUE-ORANGE».



## 3. PHOTODYNAMIC THERAPY (PDT)

PDT is an innovative technology in stomatology, which is successfully used to treat any kind of bacterial, viral and fungal lesions of the oral mucosa, including periodontitis, peri-implantitis, stomatitis, cheilitis, etc., thanks to the use of non-toxic photosensitizers – drugs capable of accumulating in pathologically altered cells and intensively releasing oxygen under the influence of red light.

A special gel "Photoditazin" is applied to the patient's gums, based on the green algae spirulina and which is a concentrate of plant pigment chlorophyll. After flushing periodontal pockets processed by red light in the range of 650-670 nm using the «RED 660» tip.

At the same time, a photochemical reaction take place during which chlorophyll decomposes, releasing active oxygen, under the influence of which pathological cells and bacteria die.



## 4. LUMINESCENT DIAGNOSIS

Diagnostics of some diseases of the mucous membrane of the mouth and tongue, contrasting old filling material, as well as detecting accumulations of bacterial plaque on the surface of the teeth using a light source emitting in the ultraviolet spectrum in the range of 400-420 nm (in peak 405 nm).

The function is realized when using the «LUMI» tip.

# ESTÜS

NEXT  
EVOLUTION OF  
ENDODONTIC  
TECHNOLOGIES

## DENTAL COMPLEX ESTUS





## DENTAL COMPLEX

### ESTUS

ESTUS MULTI control unit



Functional handpieces Estus:



Charging stand ESTUS ENERGY-D



Irrigation pump ESTUS PUMP



apexlocator ESTUS APEX



**ESTUS - unique CORDLESS dental complex** for multi-stage instrumentation of endodontic treatment

#### Basic components of ESTUS complex:

ESTUS MULTI control unit and 8 functional devices:

- 6 functional handpieces for diagnostics, preparation, ultrasound tooth canal processing and obturation of root canals and dental restoration;
- apex locator for apical constriction localization;
- pump for irrigation

#### FEATURES AND BENEFITS:

- **Highly flexible system configuration** - the delivery set is formed at a customer's choice
- **Possibility of functionality extension** - by purchasing additional functional devices
- **Ability to operate and support up to 10 functional devices**
- **Stable connection** between ESTUS MULTI control unit and the functional devices by the **radio channel**
- **Automatic detection** of the functional device in use and activation of the appropriate mode on the ESTUS MULTI display
- **ESTUS MULTI 5-inch colour touchscreen display** with userfriendly navigation for all functional devices
- **Absence of interruptions between treatment stages** due to possibility of preparation for the next stage during the current one
- **Unified control and indication algorithm** for all functional handpieces makes operation easy and comfortable
- **Maximal operational convenience** due to the only handpiece control button - Start / Stop ring type. Comfortable for both left- and right-handers
- **Prevention of accidental switch** on due to restriction of working zone (upper 180°) of ring button
- **Easily replaceable powerfull (1600 mAh) standard battery units** always keep the all functional devices in operating condition
- **Work place optimization** solution due to the minimal equipment in use
- The possibility of any functional device to perform either as a part of endodontic system ESTUS or as in **autonomous mode** without ESTUS MULTI control unit

# 1 DIAGNOSTICS

## HANDPIECE FOR ELECTRIC DENTAL PULP TESTING - ESTUS PULP



- Variety of **autoclavable quick-detachable EOD probes**: standard  $\varnothing 1,2$  mm, sharp  $\varnothing 0,3$  mm, blunt  $\varnothing 2,5$  mm
- **Reliable fixation in 6 positions of EOD probe** to adjust to various clinical situations
- **9 diagnostic current speed levels** corresponding to the dentist's choice + **Automatic mode**
- **Preliminary diagnosis indication** on the handpiece LED indicators and ESTUS MULTI display based on diagnostics results
- **Long-term operation without recharging the battery** - not less 20 hours of continuous operation.

# 2 PREPARATION

## HANDPIECE-ENDOMOTOR FOR THE ROOT CANALS PREPARATION - ESTUS DRIVE



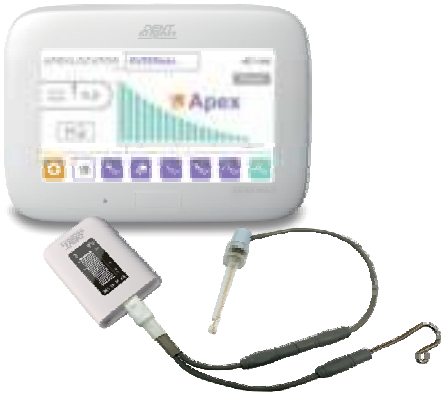
- **Preparation with the following systems:**
  - all types of NiTi files with continuous rotation;
  - reciprocating NiTi systems with programmable rotating angle (clockwise and counter clockwise);
  - SAF (Self Adjusting File);
  - endodontic burs and brushes of the «GentleBrush File» type.
- **Operation with 3 types of heads:**
  - RT type for rotary NiTi and reciprocal files (speed 200-1200 rpm);
  - SAF type for SAF files (speed 3500-9500 rpm);
  - GF type for endodontic burs and brushes of the «GentleBrush File» type (speed 3000-9000 rpm)
- **Automatic detection of the type of connected head** with automatic adjustment of the endomotor to the selected mode of operation
- **Quick and reliable connection / disconnection** of the heads to/from the endomotor handpiece due to a magnetic lock.
- **Built-in Apex locator** with the measurement correction depending on the irrigant in use for safe root canal preparation
- **5 storable programs** for rotary files
- **Wide library** of all famous NiTi rotary systems
- Rotary **speed** control for all types of file and **torque** for Ni-Ti files
- Selection of direction of Ni-Ti files rotation - direct or reverse
- Programmable rotary angle of reciprocal movement: clockwise and counterclockwise
- **STR (Safety Torque Reverse)** function when the preset torque is achieved
- Function of safe access to apical canal constriction **Apical Slow Down**
- **Indication of current Torque and apex distance** on handpiece LED scale and on ESTUS MULTI display





# 3 APEXLOCATION

## DEVICE FOR ROOT CANAL APICAL CONSTRICTION LOCALIZATION - ESTUS APEX



- **High stability of measurements in any root canal conditions** (dry, wet, bleeding etc) thanks to the latest multi-frequency technology with digital dynamic filtering of computations that is why it does not require calibration.
- **Increased accuracy at working in wet canal** due to ability to correct measurement depending on irrigation solution: Sodium hypochlorite (NaOCl), Chlorhexidine or EDTA
- **Light weight (20 g) and small size** allow to place the device right in the dentist's working zone (ex., on the patient apron), which means: comfort and safe work, prolongation of signal cables service life, dentist's workplace space saving
- **Well-read bright and contrast OLED display** with wide vision angle (170°) for the high-quality vision of the instrument motion in a canal
- **Function of forming APICAL STOP** provides the file stop and forming the on the set distance to apex to prevent filling material withdrawal into the periodontal tissues
- **The "Mark setting" function**, which allows to mark the canal curvature zones or file stop points during the measurement of the working length for a more predictable canal sealing process.
- **Additional sound control** thanks to 3 volume levels and a changing frequency of the sound signal, which increases as the instrument approaches the apex
- **Duplicate indication of the measurement results** on apex locator OLED display and on a display of the ESTUS MULTI control unit.

# 4 ULTRASOUND PROCESSING

## HANDPIECE FOR THE ROOT CANAL ULTRASOUND PROCESSING - ESTUS SONIC



- **Multifunctionality:**
  - finding and breaking into hidden canals and access enhancement;
  - removing of the calcific dental deposit and ledges;
  - root canals unsealing (removing gutta-percha);
  - extraction of endodontic instruments fragments;
  - removing of the post constructions;
  - condensing of gutta-percha;
  - safe endoactivation of irrigants and ultrasonic treatment of the canal with a unique Ni-Ti tip;
  - apical surgery.
- **Optimum ultrasonic mode** due to automatic recognition of the connected tip, selection of the operating frequency and its stabilization.
- **The ability to rotate the tip** by 360°, facilitating access to different groups of teeth
- **Three levels of ultrasonic power** for different clinical cases.
- **Resonant Frequency Scanning (Modulation) Function** of the of the connected tip for more efficient cleaning of the root canal due to the destruction of the lubricated layer and biofilm

# 5 OBTURATION

## HANDPIECE FOR DOWN PACK PHASE OF OBTURATION - ESTUS PACK



- **DownPack-handpiece ESTUS PACK of a new generation provides:** high quality vertical condensation, cutting of gutta-percha points, heat endoactivation of irrigational solution
- **There are 3 types quick-detachable and autoclavable thermopluggers for different stages of root canal obturation:** obturation of the apical zone, obturation of the upper 2/3 canal, cutting of gutta-percha points
- **Possibility to fix the thermoplugger in 1 of the 6 available positions**
- **Effective condensation of gutta-percha** thanks to vibration function
- **Safe thermoplugger with integrated sensor feedback allows:**
  - to ensure high accuracy of maintaining the set working temperature,
  - to decrease the working temperature in a root canal down to 100°C, which causes:
    - reducing of thermoplugger heating time down to the set working temperature (not > 1,5 sec),
    - prevention of gutta-percha over-heating that worsens its characteristics,
    - prolongation of save canal treatment without risk of periodontal tissues over-heating, - prolongation of thermopluggers service life

## HANDPIECE FOR BACK FILL PHASE OF OBTURATION - ESTUS FILL



- **BackFill-handpiece ESTUS FILL - the only syringe type injector** is able to work with **cost effective gutta-percha obturators**
  - **Easy detachable autoclavable heater**
  - **Time to prepare device ready for operation doesn't exceed 20 sec**
  - **Two modes of heated gutta-percha delivery:**
    - PORTION mode for the one-stage of an apical plug creation,
    - CONTINUOUS mode for filling of middle and upper parts of the root canal
  - **Three feed rates** of heated gutta-percha
  - **Safe performance** - the heater corpus temperature doesn't exceed 45°C
  - **High-quality consumables:** gutta-percha obturators and two size types of Injector needles (N°23G and N°25G)

# 6 RESTORATION

## HANDPIECE FOR SEALING MATERIAL PHOTOACTIVATION - ESTUS LIGHT



- **Multifunctionality** thanks to 8 types of tips with a different emission spectrum:
  - tips for "normal" and "point" polymerization of composite materials: "BLUE2500"\*, "BLUE1500"\*, "BLUE POINT", "FULL BLUE" (400-475 nm);
  - "RED660"\* tip for photodynamic therapy (650-670 nm);
  - "ORANGE" tip for transillumination (585-595 nm);
  - "LUMI" tip for luminescent diagnostics (400-420 nm) and
  - "BLUE-ORANGE"\* tip for polymerization and transillumination.
- **Automatic detection** of the attached tip type with automatic adjustment of the device to the selected mode of operation
- **Increased output emission of the photoemitter** (up to 2500 mW/cm<sup>2</sup>).
- **Tip ability to rotate** through 360° and **flat design**, making access to the chewing group of patient teeth easier

\*not included in delivery set



**Set «Estus » GE43E-ESTUS**

- Apexlocator - Control unit «Estus Multi»
- Apexlocator cable (USB-B-plug)
- File clip «Probe Princh» (2 pcs)
- Lip clip «Oral Hook» (2 pcs)
- Apexlocator tester

- Control unit «Estus Drive»
- Adapter for the heads lubrication
- «RT», «GF», «SAF»\* heads
- Protective case for the “RT” head
- Irrigation pump «Estus Pump» (full set)\*

- Control unit «Estus Pack»
- Control unit «Estus Fill»
- Thermopluggers «S» (02/45)
- Thermopluggers «M» (04/50)
- Thermopluggers «L» (08/55)
- Heater «Estus Fill»
- 2 Injector needles (23G and 25G)
- Gutta-percha obturators (100 pcs.)
- Cleaning and level measuring tool gutta-percha in a heater
- Multi-functional wrench for injector needle

- Control unit “Estus Pulp”
- Probe EOD standard (Ø 1,2 mm)

- Control unit «Estus Light»
- Polymerizing tip «FULL BLUE»
- Polymerizing “point” tip «BLUE POINT»
- Diagnostic tip (for transillumination) «ORANGE»
- Diagnostic tip (for luminescent diagnostics) «LUMI»

- Control unit «Estus Sonic»
- Tips: «E1/07ES» with file 22mm, «E4ES», «E5DES»
- Hygienic case
- Wrench for tips

- Apexlocator «Estus Apex»
- Apexlocator cable (microUSB-plug) with clamp

- Battery unit (1600 mAh) (8 pcs.)
- Stand “Estus Two-B” (double)
- Charging stand “Estus Energy-D” (double)
- Charger cable USB - USB-B
- Charger cable USB – microUSB
- Cable (micro pin 2 mm, single)
- Power adapter (2A)

\* irrigation pump and “SAF” head are supplied at the customer's request

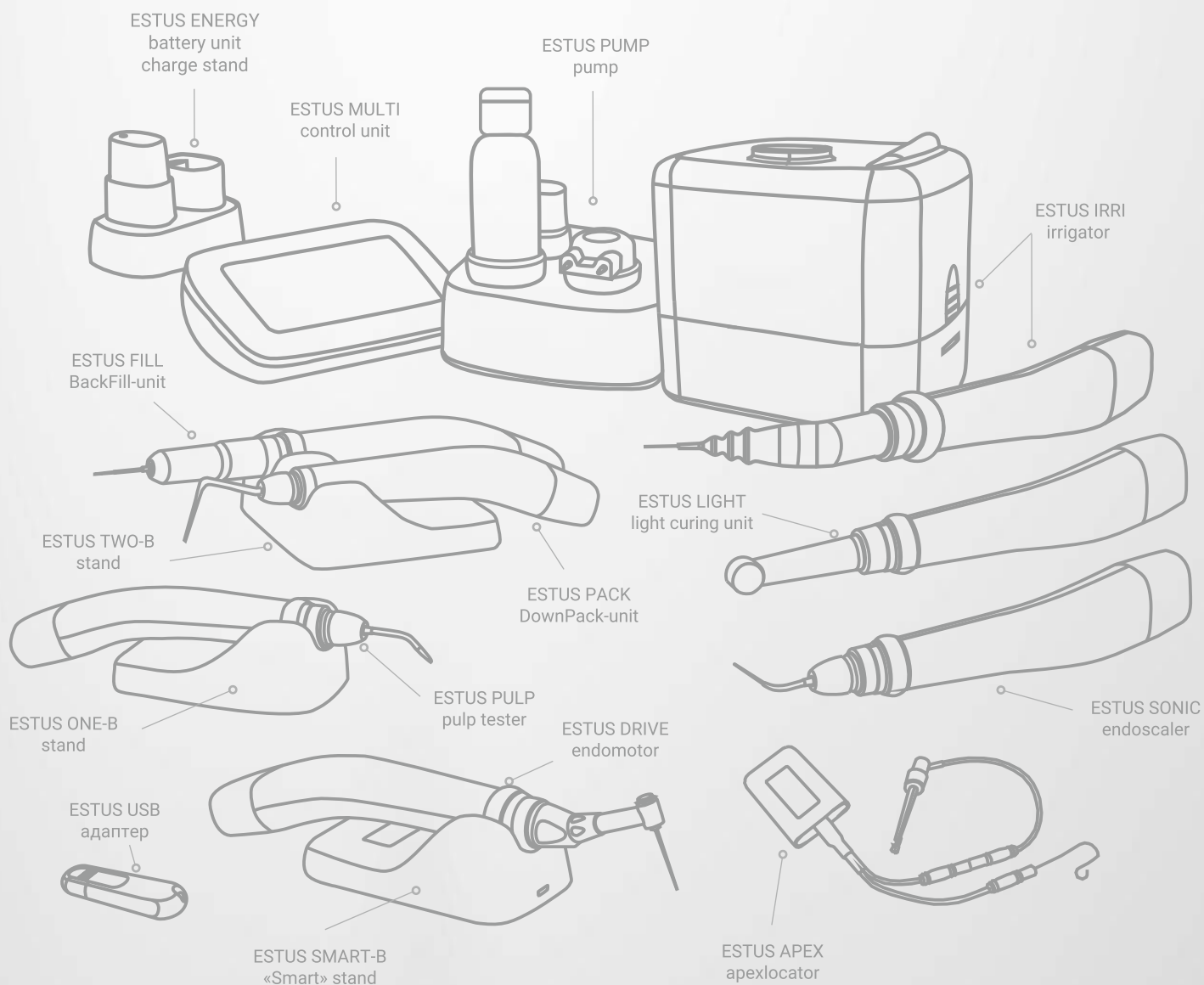


ESTÜS

# ESTUS

## CORDLESS ESTUS DENTAL COMPLEX FOR ALL STAGES OF ENDO TREATMENT

Set of available units at customer's choice



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[www.geosoft-dent.ru/en](http://www.geosoft-dent.ru/en)



The firm-manufacturer Quality Management  
System is certified on conformity to  
International Standard ISO 13485:2016

G•M•D•N

