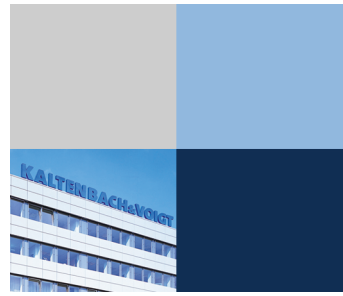


Short instructions for use  
**ESTETICA E50**



KaVo. Dental Excellence.

**Distributed by:**  
KaVo Dental GmbH  
Bismarckring 39  
D-88400 Biberach  
Tel. +49 7351 56-0  
Fax +49 7351 56-1488



**Manufacturer:**  
Kaltenbach & Voigt GmbH  
Bismarckring 39  
D-88400 Biberach  
[www.kavo.com](http://www.kavo.com)



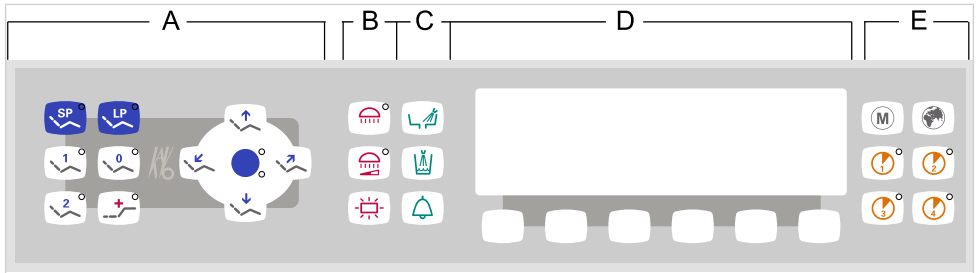
## Table of contents

<b>1</b>	<b>Controls</b>	<b>2</b>
1.1	Dentist element TM table	2
1.2	Dentist element S table	3
1.3	Assistant element	3
1.4	Groups of keys	4
1.5	Foot control	6
<b>2</b>	<b>Moving the patient chair</b>	<b>8</b>
2.1	Positioning the dental chair manually	8
2.2	Positioning the patient chair with the foot control	8
2.3	Automatic positioning of patient chair	8
<b>3</b>	<b>User menu</b>	<b>10</b>
3.1	Starting and exiting from the user menu	10
3.2	Selecting and setting an option	11
<b>4</b>	<b>Switching between levels and selecting a dentist</b>	<b>12</b>
<b>5</b>	<b>Setting the timer</b>	<b>14</b>
5.1	Select the timer time	14
5.2	Set the timer time	14
<b>6</b>	<b>Setting the handpieces</b>	<b>15</b>
6.1	Adjusting functions	15
6.2	Turbine	17
6.3	INTRA LUX Motor KL 703 LED and COMFORTdrive	18
6.4	PiezoLED	18
6.5	Multi-function syringe	18
6.6	KL 703 LED in ENDO mode (optional accessories)	19
<b>7</b>	<b>Using handpieces</b>	<b>22</b>
<b>8</b>	<b>Hygiene</b>	<b>23</b>
8.1	Tumbler filling and bowl flushing	23
8.2	Rinsing program	23
8.3	Intensive disinfection	25
8.4	Reprocessing the suction system including suction hoses	26
8.5	HYDROclean function	26
8.6	Replenishing Oxygenal	27
<b>9</b>	<b>Charging the wireless foot control</b>	<b>28</b>
<b>10</b>	<b>Warning messages</b>	<b>30</b>
10.1	Safety shut-off	30
10.2	Additional warning messages	31
<b>11</b>	<b>Error messages in MEMOdent menu</b>	<b>32</b>

# 1 Controls

	 <b>CAUTION</b>
	<p><b>These brief instructions for use only contain the essential operating functions.</b> They do not substitute for the instructions for use and care that are part of the scope of delivery.</p> <p>► Take note of the instructions for use and care that are part of the scope of delivery.</p>

## 1.1 Dentist element TM table



Dentist's unit

**A** Group of keys for the dental chair

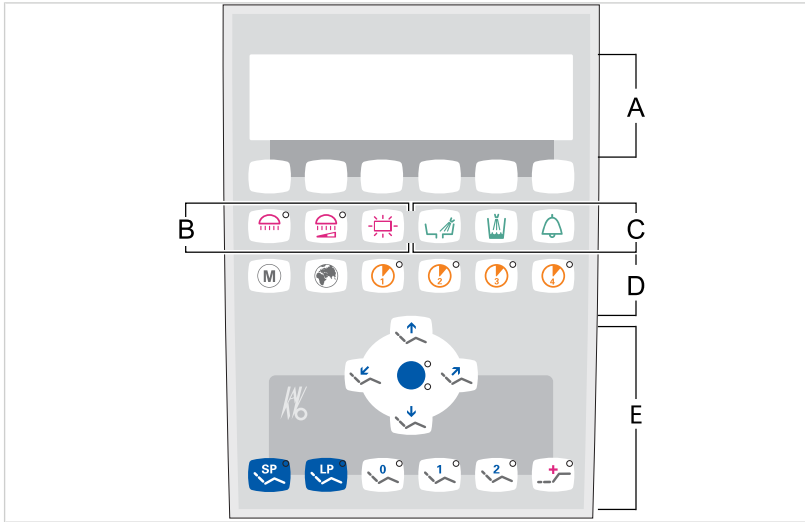
**B** Group of keys for illumination

**C** Group of keys for hygiene

**D** Group of keys for menu selection (MEMOdent menu)

**E** Group of keys for the timer

## 1.2 Dentist element S table



**A** Group of keys for menu selection (MEMOdent-menu)

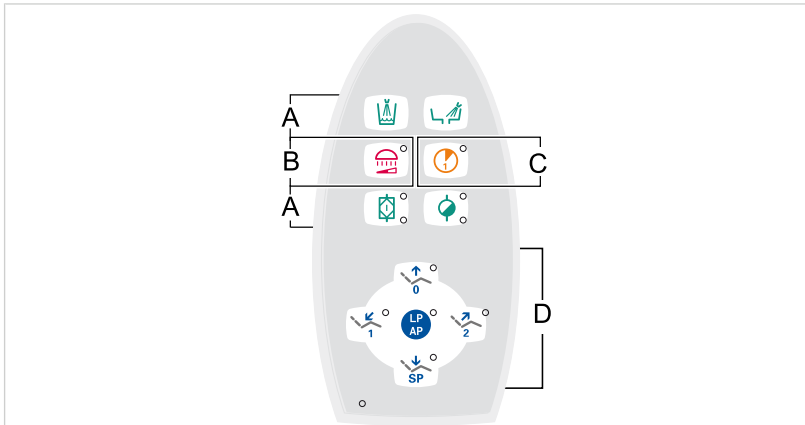
**B** Group of keys for illumination

**C** Group of keys for hygiene

**D** Group of keys for the timer

**E** Group of keys for the dental chair

## 1.3 Assistant element



**A** Group of keys for hygiene

**B** Group of keys for illumination





















**C** Group of keys for the timer

**D** Group of keys for the dental chair




## 1.4 Groups of keys

### Group of keys for the dental chair






The keys of the dentist unit each have two functions and show two symbols.

Assistant unit key	Dentist unit key	Labelling
		"Chair up" key
		"AP 0" key (automatic position 0)
		"Chair down" key
		"SP" key (rinsing position)
		"LP" key (last position)
		"AP" key (activate automatic position)
		"Backrest down" key
		"AP 1" key (automatic position 1)
		"Backrest up" key
		"AP 2" key (automatic position 2)
		"Collapsed position" key

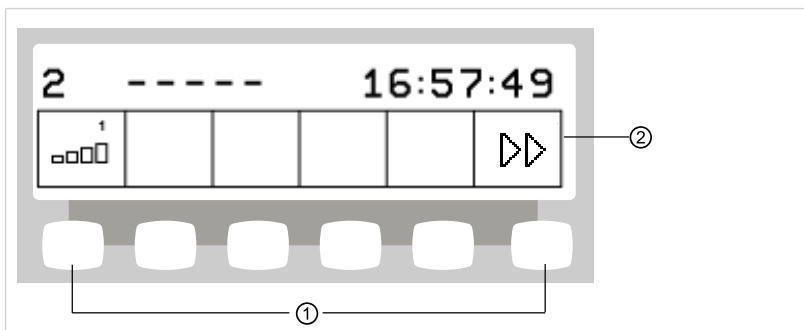
## Group of keys for illumination

Key	Name	Control element
	"Operating light" key	dentist element only
	"Operating light dimming" key	Dentist element and assistant element
	"X-ray image viewer" key	dentist element only

## Group of keys for hygiene

Key	Name	Control element
	"Tumbler filler" key	Dentist element and assistant element
	"Bowl rinsing" key	Dentist element and assistant element
	"Bell" key	dentist element only
	"Intensive disinfection" key	assistant element only
	"HYDROclean" key	assistant element only

## MEMOdent menu









### Group of keys for menu selection

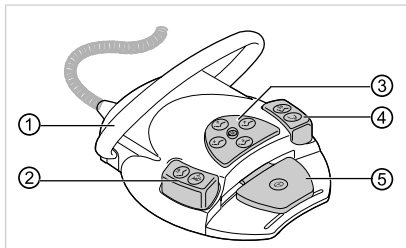
① Selection keys for menu functions

② Display

## Group of keys for the timer

Key	Name	Control element
	"Additional motor drives" key	dentist element only
	"Remote Control" key	dentist element only
	"Timer 1" key	Dentist element and assistant element
	"Timer 2" key	dentist element only
	"Timer 3" key	dentist element only
	"Timer 4" key	dentist element only

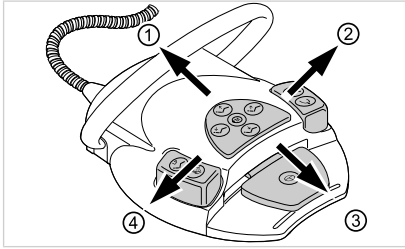
## 1.5 Foot control



Item	Name	Function with instrument mounted	Function with instrument taken out
①	U-shaped switch		Switches the foot buttons to the "Chair movement" function.
②	"LP/preselected spray" foot-operated button	Drives dental chair to last position.	Sets the spray preselection.
③	"Chair position/direction of motor rotation" cross switch	Changes the position of the dental chair.	Selects the direction of motor rotation (for motors KL 701 / KL 703 LED / COMFORT-drive 200XD).
④	"SP/blown air" foot-operated button	Drives dental chair to rinsing position.	Activates blown air (chip blower) on instrument (does not apply to PiezoLED).
⑤	"Preselection of level/handpieces" foot-operated button	Preselection of level	Starts the motor/handpieces and controls the speed/intensity of the handpieces.



## "Chair position" cross switch

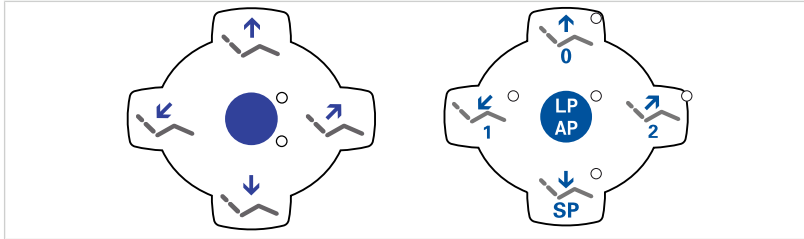


- ① Chair up
- ② Backrest up

- ③ Chair down
- ④ Backrest down

## 2 Moving the patient chair

### 2.1 Positioning the dental chair manually



Key	Function
	The chair moves up.
	The chair moves down.
	The backrest moves upward.
	The backrest moves downward.

### 2.2 Positioning the patient chair with the foot control

See also: 1.5 Foot control, Page 6

### 2.3 Automatic positioning of patient chair

#### Recalling automatic position through the dentist element



- ▶ Briefly press the desired button.

Chair automatically moves to the saved position.

Upon arrival at the saved position, the display diode on the button is turned on.

#### Saving the automatic position through the dentist element



- ▶ Move the chair to the desired position.

- ▶ To save the chair position, press the "AP 0", "AP 1", "AP 2", "SP" or "Collapsed position" button until you hear a signal.

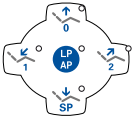
The display diode of the pressed button is turned on. The chair position is saved.

#### Recalling an automatic position through the assistant element



- ▶ Briefly press the "AP" key.

The LEDs of the "AP 0", "AP 1", "AP 2", and "SP" keys flash for about four seconds.



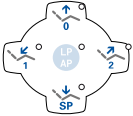
- ▶ During these four seconds, briefly press the "AP 0", "AP 1", "AP 2", "SP" or "LP" key.  
The chair moves into the selected automatic position.

## Saving an automatic position through the assistant element

- ▶ Move the chair to the desired position.
- ▶ Briefly press the "AP" key.

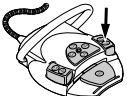


The LEDs of the "AP 0", "AP 1", "AP 2", and "SP" keys flash for approximately four seconds.



- ▶ During these four seconds, press the "AP 0", "AP 1", "AP 2" or "SP" button, until a signal sound is issued.  
The display diode of the pressed button is turned on. The chair position is saved.

## Recalling an automatic position through the foot control



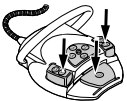
- ▶ Press the "SP" foot switch.



- or
- ▶ Press the "LP" foot switch.

The chair moves into the selected automatic position.

## Saving an automatic position with the foot control



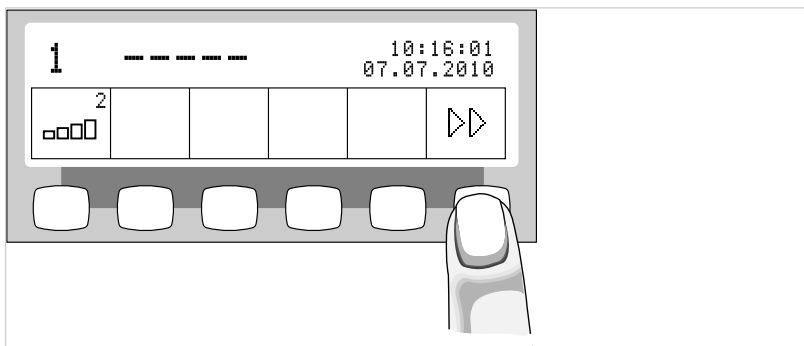
- ▶ Hold down the foot pedal and foot-operated button "SP" or "LP", and simultaneously press any button for an automatic position ("AP 0", "AP 1", "AP 2" or "SP") on the dentist or assistant element until you hear a signal.  
The automatic position is saved to the foot-operated button.

## 3 User menu

The following options can be opened in the user menu:

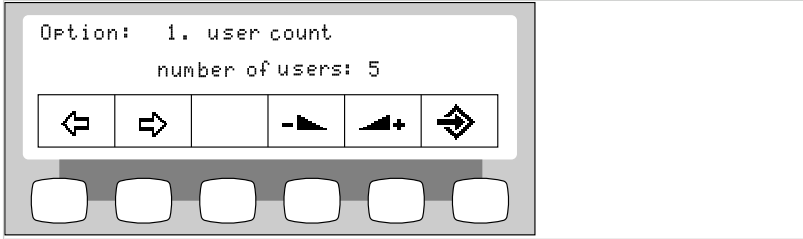
Option	Function	Description
1	User	Set number of users.
2	Tumbler	Set tumbler filling time.
3	Bowl	Set bowl rinsing time.
4	Inst. light	Set cold light afterglow period.
5	ENDO	Set ENDO holder. Available only if an ENDO dongle is present.
6	Equipment profile	<ul style="list-style-type: none"> <li>Save equipment profile from treatment unit to SD card.</li> <li>Save equipment profile from SD card to treatment unit.</li> </ul>
7	Time of day	Set time of day.
8	Date	Set date.
9	Display mode time / date	Set display mode for time of day and date: <ul style="list-style-type: none"> <li>Time of day only</li> <li>Time of day without seconds</li> <li>Time of day and date</li> <li>Date only</li> </ul>
10	LCD	Set contrast of LCD display.
11	Language	Set menu language: <ul style="list-style-type: none"> <li>Deutsch</li> <li>English</li> <li>Italiano</li> <li>Français</li> <li>Castellano</li> </ul>
12	LED lamp DIM mode	Set dimming mode for LED lamp. Available only if an LED lamp is present.
13	Colour temp. of LED lamp	Set color temperature of LED lamp. Available only if an LED lamp is present.
14	Firmware	Show current firmware version.

### 3.1 Starting and exiting from the user menu



► Press the "Next" key (S6) to switch to the user menu.

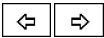
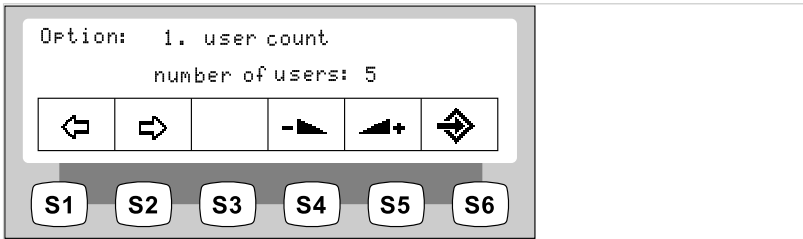
Option 1 "Number of users" or most recently used option is displayed.



► Press the "Enter" key (S6) to exit from the option menu.

The changed settings are saved.

## 3.2 Selecting and setting an option



► Press the "Back" and "Forward" keys to select the desired option (1 through 14).



► Press the "Increase value" and "Decrease value" keys to select the desired parameter or value.

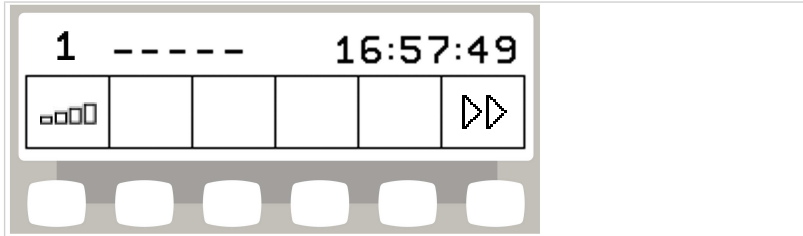
**See also:** Instructions for useESTETICA E50

## 4 Switching between levels and selecting a dentist

### Standby menu

The device starts in the Standby menu.

The unit automatically switches to the Standby menu when the Instrument menu and Multimedia menu are closed.

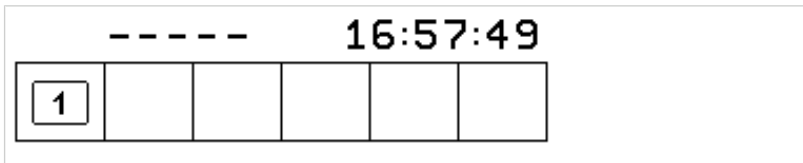


Example of Standby menu with selection keys

### Switching between levels

Level switching is deactivated in the basic state.

The level switching symbol displays the current dentist.



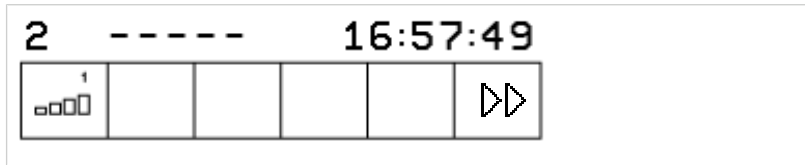
#### Note

The device acts like on level E when level switching is deactivated. This means: centring of the foot pedal is not activated.



- To switch between levels, keep the "Bell" and the "Bowl flushing" keys and the foot pedal depressed, until a signal sound can be heard.

After activating level switching, the level switching symbol shows the level (E, 1 2 or 3 - in this example level 2 is selected). The pre-selected dentist is only displayed very small in the level switching symbol.

**Note**

The device automatically saves the activation of level switching for the current dentist.

**Note**

Level switching is deactivated using the same key combination as activation.



- ▶ Briefly press "Preselect level" button to select the level.

## Selection of dentist



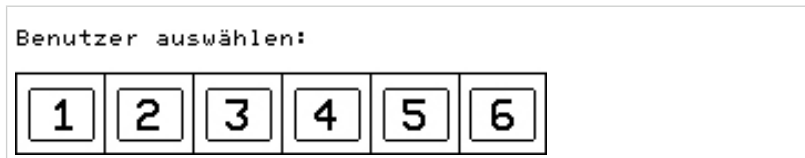
- ▶ Level switching blocked: press "operator" key.

The display switches to the settings menu.



or

- ▶ Level switching permitted: press "Preselect level" key for 4 seconds.



- ▶ Press the key for the desired dentist (dentist 1 to dentist 6).

## 5 Setting the timer

### 5.1 Select the timer time



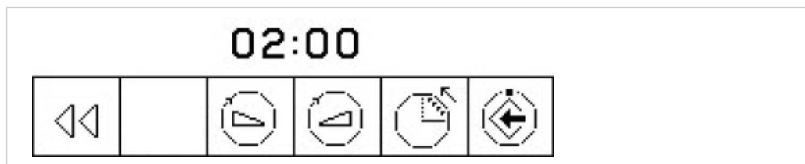
- ▶ To start a timer time, e.g. Timer 1, press the "Timer 1" button.  
Time on the timer starts to run. A beep is issued after the timer time is elapsed.
- ▶ In order to stop the time on a timer, press the selected "Timer" button again.

### 5.2 Set the timer time

A maximum 59:59 minutes can be set using the timer.



- ▶ To set a timer time, e.g. Timer 1, press the "Timer 1" key until you hear a signal.  
The display switches to the settings menu for the timer time.



- ▶ Press the "Decrease value" key to reduce the time.

or



- ▶ Press the "Increase value" key to increase the time.

The set time is shown on the display.

Symbol	Function
	The timer counts down (for example: 0:30 to 0)
	The timer counts up (for example: 0 to 0:30)



- ▶ Press "Save" button to save the value.  
A beep confirms that the value has been saved.

or



- ▶ Press the "Back" button to return to the default (without saving). Press the "Back" button to return to the default (without saving).



## 6 Setting the handpieces

### 6.1 Adjusting functions

#### Switch to the settings menu of the active element

Level switching must be activated for the selection of a level.

**See also:** 4 Switching between levels and selecting a dentist, Page 12



- ▶ Remove the instrument from the holder.
- ▶ Briefly press "Preselect level" button to select the level.



- ▶ Press "Preselect level" button for 4 seconds in order to change settings. The display switches to the Settings menu of the selected instrument.

#### Saving the values



- ▶ Press the "Save" key to save the values. You can save after setting each value, or after setting all values. Saving is acknowledged by a beep.

#### Set the speed/power intensity (in levels 1 to 3 only)



- ▶ Press the "Decrease value" key to decrease the speed.

or



- ▶ Press the "Increase value" key to increase the speed. The speed is shown in the display.

#### Set the power intensity (in levels 1 to 3 only)



- ▶ Press the "Decrease value" key to decrease the speed/power intensity.



or





- ▶ Press the "Increase value" key to increase the speed/power intensity. The speed/power intensity is shown on the display.

#### Setting the cooling level

- ▶ Adjust the cooling with the "Cooling level" key.

Symbol	Function
	No cooling
	Spray air cooling

Symbol	Function
	Spray cooling
	NaCl cooling (optional accessory) Pre-requisite: NaCl is preselected through foot control. Activation through cross switch.



## Setting the direction of motor rotation



### Note



The rotational direction of the motor can only be changed when the motor is at rest.

- Choose clockwise or counterclockwise rotation with the selection button for "Motor rotational direction".

Symbol	Function
	Clockwise rotation
	CCW rotation

## Setting the water/air heating (only with the multifunctional handpiece)



- Adjust the heating with the key for "Air/water heating".

Symbol	Function
	Air/water heating "on"
	Air/water heating "off"

## Setting the cold light



- Set the cold light with the "Cold light" key.

The cold light intensity changes one level each time the key is pressed.

Symbol	Function
	Cold light "off"
	Cold light to "level 0 - 9"

## Turn the light On / Off (PiezoLED only)

- Briefly press the "Light" button to switch between "On" and "Off".

Symbol	Function
	Light "On"
	Light "Off"



## Define operating mode (PiezoLED only)



### Note

The selection of the mode depends on the treatment method and the tip used. For information about the selection of an operating mode, please refer to the "Operating modes P1 / P2 / P3 and E" section of the "PiezoLED Instructions for Use".

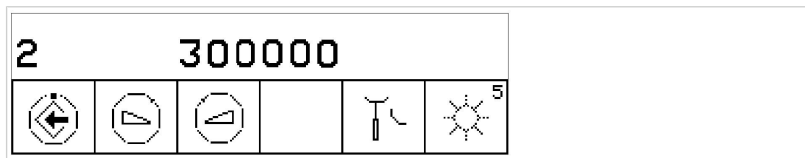
- Press the "Mode" key to select the operating mode.  
Modes P1 / P2 / P3 / E are available for selection.

Symbol	Function
	Mode P1
	Mode E

## 6.2 Turbine

The following settings can be changed in the MEMOdent menu:

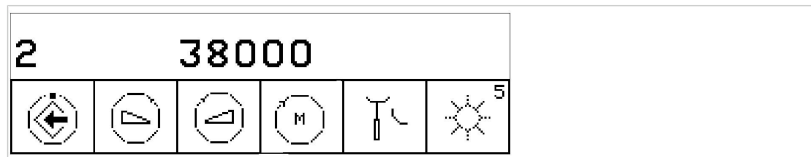
- Speed
- Cooling status
- Cold light intensity



## 6.3 INTRA LUX Motor KL 703 LED and COMFORTdrive

The following settings can be changed in the MEMODent menu:

- Direction of motor rotation
- Speed
- Cooling status
- Cold light intensity



## 6.4 PiezoLED

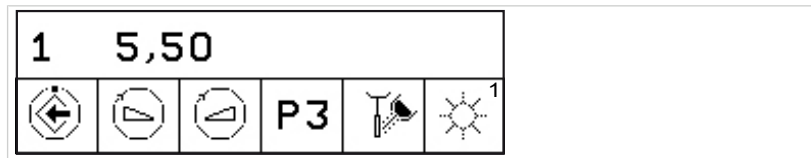


### Note

Please comply with the enclosed "PiezoLED" Instructions for Use.

The following settings can be changed in the MEMODent menu:

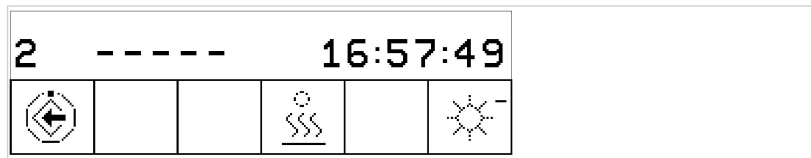
- Output intensity
- Operating mode (P1 / P2 / P3 / E)
- Cooling status (no cooling / spray water cooling/ NaCl cooling)
- Light On/Off (intensity cannot be set)



## 6.5 Multi-function syringe

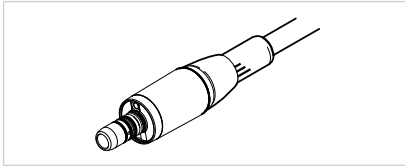
The following settings can be changed in the MEMODent menu:



- Cold light intensity
- Air/water heating



## 6.6 KL 703 LED in ENDO mode (optional accessories)

### Call up ENDO mode



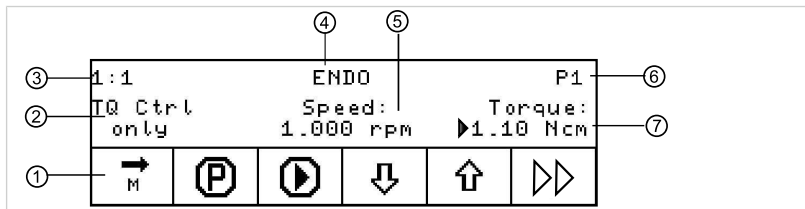
 <b>CAUTION</b>

<p><b>Incorrect transmission ratio</b> Damage from incorrect speed / incorrect torque.</p> <ul style="list-style-type: none"> <li>▶ Before using the endomotor, always check the speed and transmission ratio.</li> <li>▶ Only use KaVo 1:1 reducing shanks 20LH or 20LP with 1:1 INTRA LUX head 68 LU (<b>Mat. no. 1.003.7191</b>) or 3:1 INTRA LUX head 66 LU (<b>Mat. no. 1.004.4587</b>).</li> </ul>

- ▶ Take the INTRAMatic **LUX KL703 LED** endo-motor from the holder.



- ▶ Press the "Additional motor drives" button.

The display switches to the "ENDO" menu.



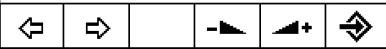
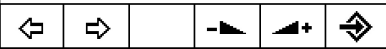
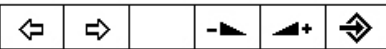
- |                               |                    |
|-------------------------------|--------------------|
| ① Direction of motor rotation | ⑤ Speed            |
| ② Torque mode                 | ⑥ Parameter memory |
| ③ Transmission factor         | ⑦ Torque           |
| ④ ENDO Mode                   |                    |

### Setting options



- ▶ Press the "Next" key to switch to the option menu.

The most recently used menu is displayed.

Display	Function
Option: 1. ENDO Gearbox Ratio Ratio: 1:1 	Option: 1. Transmission factor Set the transmission factor to 1:1 or 3:1
Option: 2. Torque Unit Unit: Ncm 	Option: 2. Display of torque Set the torque display in Ncm or in % 1:1 transmission: 100% = 2.5 Ncm 3:1 transmission: 100% = 8 Ncm
Option: 3. Autorev./Fwd. Zeit Zeit: 3s 	Option: 3. Autorev./Fwd. time In Autorev./Fwd time mode, you can set the time (1 to 10 seconds) in which the motor automatically starts rotating to the right which makes it unnecessary to stop with the foot control.



Options 1, 2 or 3 can be selected by pressing the "Back" and "Forward" keys.



The "Decrease value" and "Increase value" keys can be used to modify the parameters of the option.



▶ Press the "Enter" key to exit from the option menu.

The changed parameters are saved.

## Setting the parameters

There are six parameter memories (P1 to P6).

The following parameters can be changed:

- Speed
- Torque
- Torque mode



▶ Press the "Programme" button in order to call-up the desired parameter memory location (P1 through P6).



or

▶ Press the "SP/Blown air" foot-operated button.

Each time the button is pressed, the parameter memory location advances by one step (P1 - P2 - P3 - ... - P6 - P1)



▶ Press the "Select parameter" button in order to select the desired parameter.

The cursor flashes on the parameter to be changed.



▶ Press the "Up" or "Down" button to change the selected parameter.



▶ To save the parameters, press the "Programme" button for 2 seconds until you hear a signal.

The changed parameters are saved to the selected parameter memory location.

**Note**

You can save the parameters each time you set a new one, or after setting all the parameters.

## Speed

The speed can be adjusted as follows:

- in steps of ten:  
in the range from 100 rpm to 500 rpm
- in steps of fifty:  
in the range from 500 rpm to 1,000 rpm
- in steps of 100:  
in the range from 1,000 rpm to 6,000 rpm

## Torque

1:1 transmission ratio

The torque can be changed as follows:

- in steps of 0.05 Ncm:  
in the range from 0.15 Ncm to 2.5 Ncm
- in steps of 2%:  
in the range from 1 % to 100 %

3:1 transmission ratio

The torque can be changed as follows:

- in steps of 0.05 Ncm:  
in the range from 0.4 Ncm to 8 Ncm
- in steps of 2%:  
in the range from 1 % to 100 %

## Torque mode

Three different torque modes are available:

- Torque only
- Autoreverse
- Autoreserve / Forward

## Exiting ENDO mode



- ▶ Press the "Additional motor drives" button.

**or**

- ▶ Place the **INTRAMatic LUX KL703 LED** endo-motor back in the holder.

## 7 Using handpieces

- ▶ Take the instrument (e.g., turbine, motor, PiezoLED, etc.) from the holder.  
The instrument is active.



- ▶ Press the footpedal.  
The removed instrument runs at the set speed or intensity.



- ▶ Changing speed or intensity with the foot pedal.

The left stop corresponds to the minimum speed/intensity.  
The right stop corresponds to the maximum speed/intensity.

### Preselect counterclockwise motor rotation

- ▶ Take motor from the holder.  
The handpiece is active.
- ▶ Slide the cross switch upward.



The direction of motor rotation is reversed each time the cross-switch is actuated:  
counterclockwise rotation - clockwise rotation.  
The direction of motor rotation is displayed on the dentist element.

### Setting the instrument light



- ▶ Slide the cross switch to the right. (spotlight function)  
Cold light "On" (even when Cold light: "Off" is preselected).



- ▶ Slide the cross switch to the left.  
Change the cold light status: "On/Off"

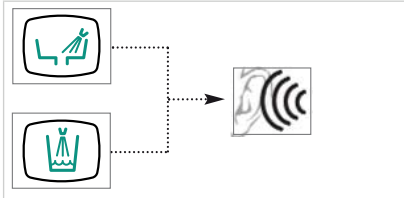


## 8 Hygiene

### 8.1 Tumbler filling and bowl flushing

The following settings can be changed:

- Tumbler filling time
- Bowl rinsing time



The set times are adjusted by pressing function keys and counting the signal beeps. Each beep corresponds to one second.

- ▶ Hold down the button of the hygiene function to be set until you hear beeps.
- ▶ Count the beeps and release the button when the desired time is reached.



#### Note

A technician can block the setting of the time.

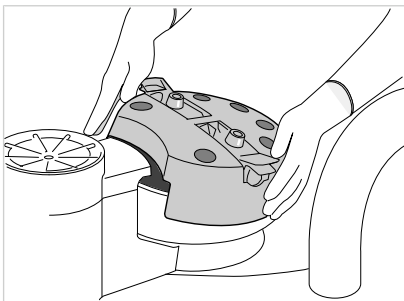
### 8.2 Rinsing program



- ▶ Briefly press the "Intensive disinfection" button.

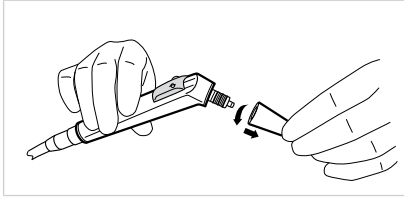
#### Preparation

- ▶ Place the disinfection attachment on the porcelain bowl, or insert it in the glass bowl (depending on the design).



The cannulas of the three- and multi-function syringes must be taken off for the rinsing programme and intensive disinfection.

- ▶ Take off the cannula with a slight twisting motion, then hold the syringe at the gripping sleeve.



- ▶ Insert three- or multi-function syringes without cannulas in the tightening elements of the disinfection attachment. Make sure that the "W" button (water) of the three-function or multi-function syringes is pressed, and that no air is exiting.
- ▶ Place the instrument hoses of the dentist and assistant elements in the corresponding places of the disinfection attachment.
- ▶ Support tubing with the enclosed holder.



#### Note

All water regulation mechanisms for the motor, instruments, and multiflex couplings must be open.

## Set rinsing time



- ▶ Press the "Decrease value" or "Increase value" keys to select rinsing program 01 or rinsing program 02.

The standard value for rinsing program 01 is 20 seconds per instrument.  
The standard value for rinsing program 02 is 2:00 minutes per instrument.



- ▶ Press the foot pedal to display the time for rinsing the instruments and the three-function or multifunctional syringe.

With the foot pedal of the foot control being pressed down, the rinsing time for the respective rinsing programme can be set in the range from 0:01 to 4:00 minutes using the "Decrease value" and "Increase value" buttons.

The rinse program proceeds in four steps. For rinse program 01, the cycle starts in step 2, and for rinse program 02, the cycle starts in step 4.

## Start rinsing programme



- ▶ Briefly press the "Intensive disinfection" button.

## Discontinue the rinsing programme



The rinsing programme can be stopped at any time by pressing the "intensive disinfection" key.

If the device is turned off and then on again, the rinsing program also stops.

## 8.3 Intensive disinfection

An additional intensive disinfection must be carried out during extended periods on non-use (> 4 weeks).



The need for intensive disinfection is automatically displayed in the top LED of the "Intensive disinfection" button at first start-up and after periods of non-use (weekend, holidays, vacation, etc.).

When a beep is issued every 10 seconds and the bottom LED of the "Intensive disinfection" button flashes, **KaVo OXYGENAL 6** needs to be replenished. If a beep is issued during the filling process (10 times each second), the container is full.



### Note

If the amalgam separator malfunctions during intensive disinfection, the entire process is stopped. The bottom LED of the "HYDROclean" button flashes.



▶ Press the "Intensive disinfection" button for more than 4 seconds until you hear a beep and the upper LED flashes. The display switches to the intensive disinfection menu.

▶ Perform the preparations for intensive disinfection.

**See also:** 8.2 Rinsing program, Page 23



▶ Press the "Intensive disinfection" button.

Intensive disinfection starts and proceeds through several stages. The process can be followed on the display.

Intensive disinfection is completed when "01 intensive disinfection completed" appears on the display.

▶ Reinsert all instruments and remove the holder.

## Interrupt intensive disinfection during the dwell time

So that no one will have to remain with the device throughout the entire intensive disinfection process, intensive disinfection can be interrupted in program step 4 (e.g. on the last workday before the weekend). Program step 4 is the dwell time, in which the microorganisms are killed by an increased **OXYGENAL 6** concentration.

### Requirement

- Intensive sterilisation is in program step 4.
- You hear a beep for 4 seconds.

▶ Turn the device off.

When the device is switched on after 30 minutes of dwell time, the remaining program steps run immediately and automatically.

If the device is turned on before the 30 minute period is elapsed, the dwell times finishes first before the remaining steps of the intensive sterilisation program run.

## Skip exposure phase

This function is required when the treatment unit needs to be used (for example in an emergency, at hospitals, etc.) even though the disinfection procedure has already started.

Intensive disinfection is in step 4:



- ▶ Press and hold down the "Intensive disinfection" and the "HYDROclean" buttons simultaneously.
  - ▶ Simultaneously press the foot pedal on the foot control.
- The intensive disinfection switches to step 3.7.  
The automatic rinsing process starts up.

## 8.4 Reprocessing the suction system including suction hoses

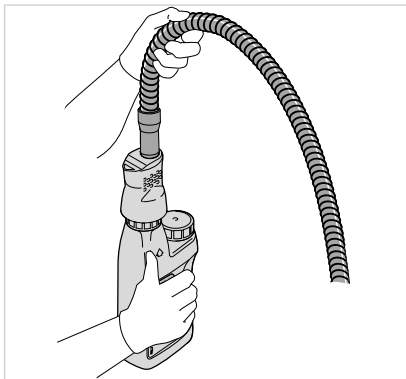


### Note

Clean the suction hoses after each treatment and disinfect them with DEKASEPTOL Gel daily.

### Application of DEKASEPTOL Gel

- ▶ Aspirate one tumbler of cold water with each suction hose.
- ▶ With the suction handpiece attached or by hand, press down the Dekaseptol dosing facility once each for the saliva ejector hose and the spray mist ejector.
- ▶ Aspirate DEKASEPTOL Gel (**Mat. no. 1.000.7205**) from the dosing facility.
- ▶ Aspirate another tumbler of cold water with each suction hose.
- ▶ Then aspirate another dose of Dekaseptol and allow to act.
- ▶ Place the suction hoses in the holder.



## 8.5 HYDROclean function

The following processes are triggered by the HYDROclean function:

- The suction lines (from the filter housing to the separator system) are rinsed automatically for 150 seconds with pure water by activating the selective valves and the suction machine.
- The bowl rinse is turned on and off several times.

**Requirement**

Suction hoses remain hanging in the holder.



- ▶ Press the "HYDROclean" button.  
The HYDROclean function is in the preparatory stage.



- ▶ Press the "HYDROclean" button.  
This starts-up the HYDROclean function.

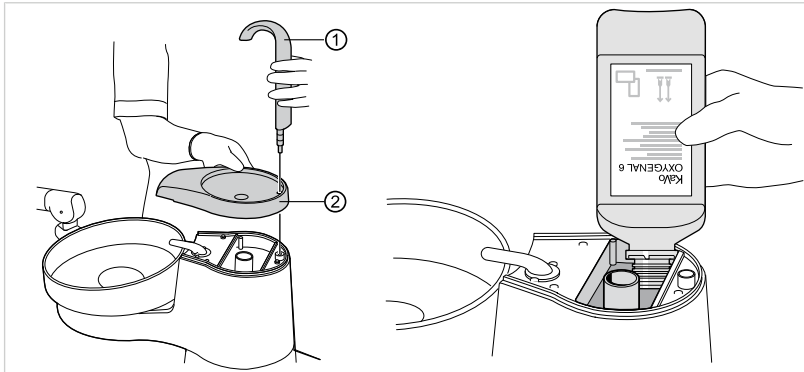
The HYDROclean function is completed when the top LED goes dark.



- ▶ The process can be discontinued at any time by pressing the "HYDROclean" button.

## 8.6 Replenishing Oxygenal

When the Oxygenal container is empty, a beep is issued every 10 seconds.



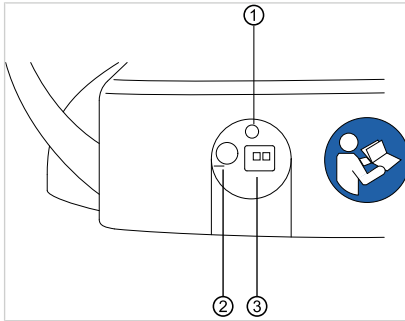
- ▶ Remove the tumbler filler ① and tumbler holder ②.
- ▶ Top off the Oxygenal (max. 1 litre)

**Note**

Do not fill through the centre opening (tumbler drain). Do not fill through the centre opening (tumbler drain).

- ▶ Quit replenishing immediately if you hear a signal sound being issued every second (10 sounds). Reservoir is full.
- ▶ Attach the tumbler holder and the tumbler filler.

## 9 Charging the wireless foot control



Rear of the wireless foot control

Item No.	Labelling	Function
①	LED display	Status display / charge status display
②	On/Off switch	On/off switch to prevent deep discharge during long periods of non-use. The wireless foot control can remain switched on at all times as a matter of principle. The device must be switched off for transport. The battery can also be charged when it is switched off.
③	Charge socket	Charge socket for the provided charger (Mat. no. 1.005.4229).

	<b>⚠ CAUTION</b>
	<p><b>Critical battery level</b> If the battery reaches a critical charge status, a signal is sounded every time a function key is pressed.</p> <ul style="list-style-type: none"> <li>▶ Always charge batteries when necessary.</li> <li>▶ To ensure that the battery of the wireless foot control is always charged in a timely manner, note the visual and acoustic signals of the wireless foot control when starting the treatment unit.</li> </ul>



### Note

Charge the wireless foot control with the charger supplied by KaVo only.

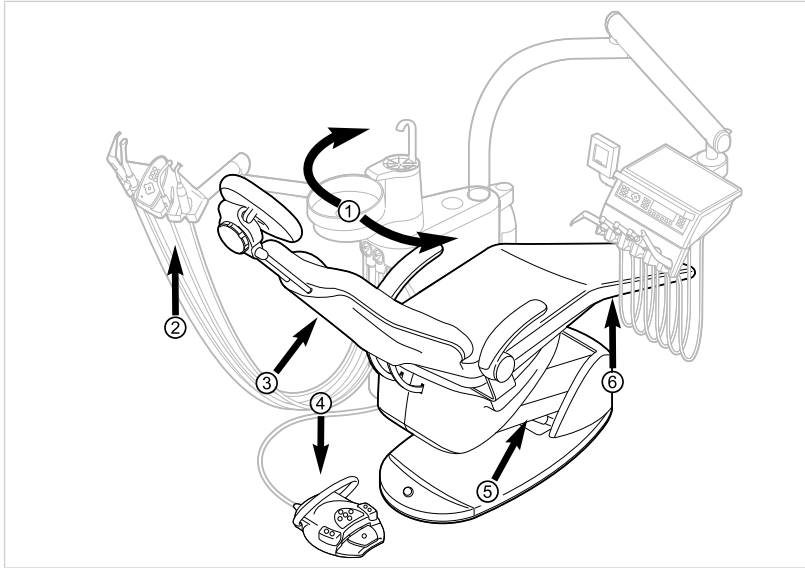
- ▶ Connect the charger to the wireless foot control.













Residual capacity	Foot control status	Status display / charge status display	Beep
< 100 %	Idle state Foot control is on	Flashes green (approx. 2 second intervals)	-
	Active actuation	Flashes green (approx. 200 millisecond intervals)	-

<b>Residual capacity</b>	<b>Foot control status</b>	<b>Status display / charge status display</b>	<b>Beep</b>
< 30 %	Idle state Foot control is on	Flashes yellow (approx. 2 second intervals)	A single brief beep when a button is pressed.
	Active actuation	Flashes yellow (approx. 200 millisecond intervals)	A single brief beep when a button is pressed.
< 10 %	Idle state Foot control is on	Flashes yellow (approx. 2 second intervals)	Two brief beeps when a button is pressed.
	Active actuation	Flashes yellow (approx. 200 millisecond intervals)	Two brief beeps when a button is pressed.

## 10 Warning messages

### 10.1 Safety shut-off



Pos. no.	Confirmed safety shut-down	LED on assistant unit	LED on dentist unit
①	Patient unit swung over the patient chair		
②	Assistant unit		
③	Backrest		
④	Bracket on the foot control		
⑤	Bottom of the chair parallelogram		
⑥	Seat		

- To deactivate an activated safety shutoff, remove the triggers from the to the range of movement of the stool.



## 10.2 Additional warning messages

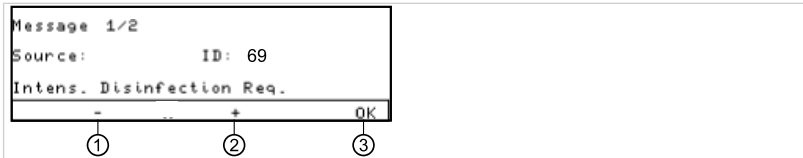
Malfunction	Cause	Remedy
A beep is issued every ten seconds and the "Intensive disinfection" LED (green) flashes.	The Oxygenal container is empty.	<ul style="list-style-type: none"> <li>▶ Refill the Oxygenal container.</li> </ul> <p><b>See also:</b> Care instructions</p>
Ten beeps are issued.	The Oxygenal container is too full.	<ul style="list-style-type: none"> <li>▶ Stop filling the Oxygenal container.</li> </ul>
A melody sounds.	The amalgam separator CAS1 is 95% full.	<ul style="list-style-type: none"> <li>▶ Exchange the amalgam container.</li> </ul>
	The CAS1 amalgam separator is defective.	<p><b>See also:</b> Instructions for use for the CAS 1 or</p> <ul style="list-style-type: none"> <li>▶ Call a Service technician.</li> </ul>
LED on "HYDROclean" button (red) flashes.	Malfunction in the amalgam separator.	<ul style="list-style-type: none"> <li>▶ Call a technician.</li> <li>▶ Note the amalgam separator warning notice.</li> </ul> <p><b>See also:</b> Operating instructions of the amalgam separator.</p>
	Emergency shut off of the bowl valve (only when external suction is installed)	<ul style="list-style-type: none"> <li>▶ Call a technician.</li> </ul>

## 11 Error messages in MEMOdent menu

If a status message is available, the standby menu shows an exclamation mark on selection key "S2" ①.



- ▶ Press the "S2" selection key ① to display status messages.



- ▶ Press the selection keys "+" ② and "-" ① to switch between multiple status messages.
- ▶ Press the "OK" selection key ③ to exit from the display of status messages.

### Error messages in the status display

Malfunction	Cause	Remedy
Display shows: ID 56	Wireless foot control battery is empty.	▶ Charge battery.
Display shows: ID 64	Water is shut off.	▶ Turn water on.
	Water works leaks strongly. Water works malfunction	▶ Call a technician.
Display shows: ID 65	Safety switch of bowl suction has been reached.	▶ Turn external suction on. ▶ Check and clean, if required, the bowl valve.
Display shows: ID 66	Amalgam separator malfunction	▶ Remedy the malfunction. <b>See also:</b> Instructions for Use of amalgam separator
Display shows: ID 67	The oxygenal container is empty.	▶ Fill the oxygenal container. <b>See also:</b> Care instructions
Display shows: ID 68	Call for service	▶ Have a service performed. ▶ Call a technician.
Display shows: ID 69	Intensive disinfection must be carried out.	▶ Carry out intensive disinfection. <b>See also:</b> Care instructions
Display shows: ID XX	This error is not described in this chapter.	▶ Call a technician.
Display shows: CAN fail	Internal communication error.	▶ Turn the unit off and on again, consult a service technician according to need.





KaVo. Dental Excellence.