

Universal variable cabled foot control

Universal variable wireless foot control



KEEP THIS MANUAL WITH THE DENTAL DELIVERY SYSTEM AT ALL TIMES

Installation, Service, and Maintenance by authorized Heka Dental distributors only

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Note: With reservation of technical changes and colour changes. Images may be displayed with optional equipment. Images may be displayed without safety labels.

General safety information

For severity of warnings, please refer to the user manual for the Dental Delivery System.

NOTICE

Risk of battery damage

The battery can be permanently damaged from being discharged completely.

- Remove the battery from the foot control during shipping or if left unused for more than 2 months.



The battery is a part of a medical equipment and approved for the foot control. No other batteries are allowed. Heka Dental A/S can supply spare batteries.



Bluetooth connection is disabled during charging as communication is made through the supplied cable.



Instruments will stop automatically if the wireless Bluetooth connection is interrupted.

Device description



If the equipment does not start as described below

- Contact a Heka distributor immediately.



To avoid unintentional activation of the Dental Delivery System, the foot control can only activate the first instrument selected from the instrument table, all other instruments are inactive and cannot be activated.

UnicLine S or derived hardware

Cabled foot control

Connect to the dental delivery system by inserting the connector into the plug on the column base and turn the sleeve clockwise.



Cabled and wireless foot control use different connectors and are therefore not directly interchangeable.



Wireless installation requirements

The unit must have software version 21 or later installed, the foot control must have software version 1.4.3 or later installed and the receiver PCB db-0041 must be installed for the foot control to work.

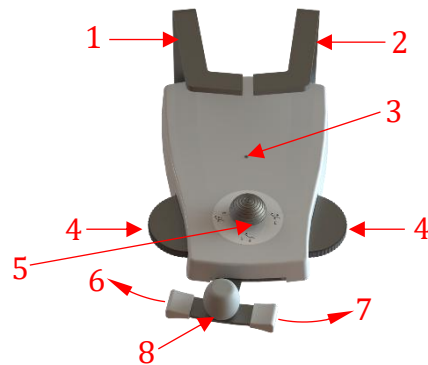
General features for wireless foot controls



In case of disturbance of the wireless communication or lack of power, connect the foot control to the dental delivery system by inserting the connector into the plug on the column base and turn the sleeve clockwise.

The wireless types will continue to function normally when connected to the console, communicating and charging through the cable.

Overview and functionality



1	Left support arm	2	Right support arm	3	Battery indicator (wireless version only)
4	Ear	5	Optional chair joystick	6	Decrease
7	Increase	8	Activation arm		

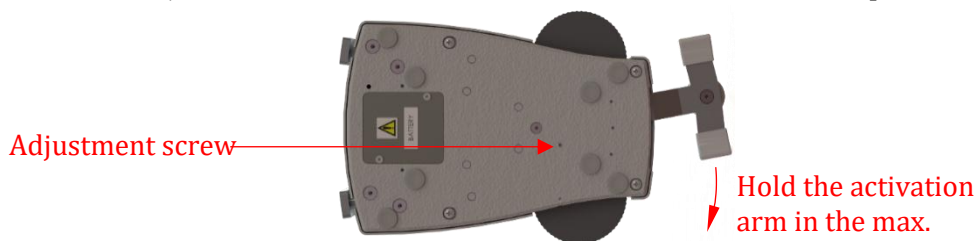
Mode of operation

Operation:	Location:	Action:
Assistant call	Left support arm (1)	Short press
Dental light ON/OFF	Right support arm (2)	Short press
Activation of selected instrument	Activation arm (6)	Press and hold
Reverse rotation of micromotor	Activation arm (6) + Ear (4)	Short press on activation arm followed by a short press on an ear
Switch between programs	Ear (4)	Two short presses
Change spray combination	Ear (4)	Short press (<1 second)
Mechanical chip-blow	Ear (4)	Press and hold
Heka patient chair movement	Joystick (5)	See chair instructions

Configuring the return spring on the foot control

For push-down activated (Var!) foot controls, hold the activation arm in the max. position and loosen the adjustment screw until it is level with the bottom plate of the foot control.

For horizontally activated (Var->) foot controls, hold the activation arm in the max. position and fasten the adjustment screw until it is released from the bottom plate of the foot control.



Pairing and programming the foot control

Cabled foot control with a Heka UnicLine S or derived hardware

With the foot control connected to the unit. Navigate to "Setup Footctrl." on the telescopic head and set the type depending on the mode of operation:

"Var->" for activation by moving the pedal arm towards the right and return spring enabled.

"Var!" for push-down activation and return spring deactivated.

To calibrate the min and max limits of the activation arm

Move the activation arm slightly away from the left end stop and press F3 "Min".

Move the activation arm to the right end stop and press F3 "Max".

Power the unit off and on and test the foot control.

Wireless foot control with a Heka UnicLine S or derived hardware

With the foot control connected to the unit. Navigate to "Setup Footctrl." on the telescopic head and set the type depending on the mode of operation:

"Var->" for activation by moving the pedal arm towards the right and return spring enabled.

"Var!" for push-down activation.

If the unit is already set up for this type of foot control, select a different type and change it back. A double beep indicates that the foot control and the receiver is paired.

To calibrate the min and max limits of the activation arm

Move the activation arm slightly away from the left end stop and press F3 "Min".

Move the activation arm to the right end stop and press F3 "Max".

Power the unit off and on and test the foot control.

Wireless foot control with a Heka+ hardware variation

Power the unit off, connect the foot control to the unit with the cable and power the unit on.

Remove the cable and test the foot control.

Calibration of the foot control is done in one connect.

Wireless foot control, technical specifications

Battery

Only a battery type Li-ion Battery, DM355Y.388, 3.6V 2350mAh/8.5Wh is allowed in the foot control.

The battery is designed to work at least two months with charging (from a fully charged battery).

Wireless communication

The unit communicates with the foot control using Bluetooth.

In case the Bluetooth wireless connection is interrupted, you can connect the foot control to the unit via the foot control cable to continue operation.

Charger

Specification: 100-240 VAC 180 mA, 5V max 5.0W.

Battery indicators

UnicLine S and derived hardware

The first time the foot control is activated after the 2% level is reached, 5 fast beeps in the telescope head indicates battery low. The acoustic battery alarm is repeated every 5 minutes.

Heka+

A warning sign will be visible in the display on the instrument table.

If the foot control is low on power, you can either connect the foot control to the unit via the foot control cable and continue working, or you can plug-in the wall charger, but then you cannot use the foot control.

LED indications

Green or flashing green: The battery is fully charged

Red: The foot control is charging. The battery will be fully charged after 6 hours.

Flashing red and green: The foot control cannot see the battery (FW 1.4.3 or later).



Battery level is only transmitted when the foot control is activated.

Warranty Terms & Conditions

Please refer to the Instruction for Use (IFU) for the Heka Dental Delivery System.

Disposal of the Dental Delivery System

Please refer to the Instruction for Use (IFU) for the Heka Dental Delivery System.

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