

Addendum

AXIOM Aristos FX

Wireless Remote Control - Draft -

Important information

The functions of the Wireless Remote Control are activated via an RF transmitter.

The Wireless Remote Control shall be operated in close vicinity to the patient table only and with full visibility to the patient on the table.

The batteries shall always be sufficiently charged.

The Wireless Remote Control can interfere with life supporting devices.



Caution

Mechanical or personal damage

hm_fdrad_sysmark_MovementInte
rruptbyStop_u06

Emergency stop interrupts movements immediately

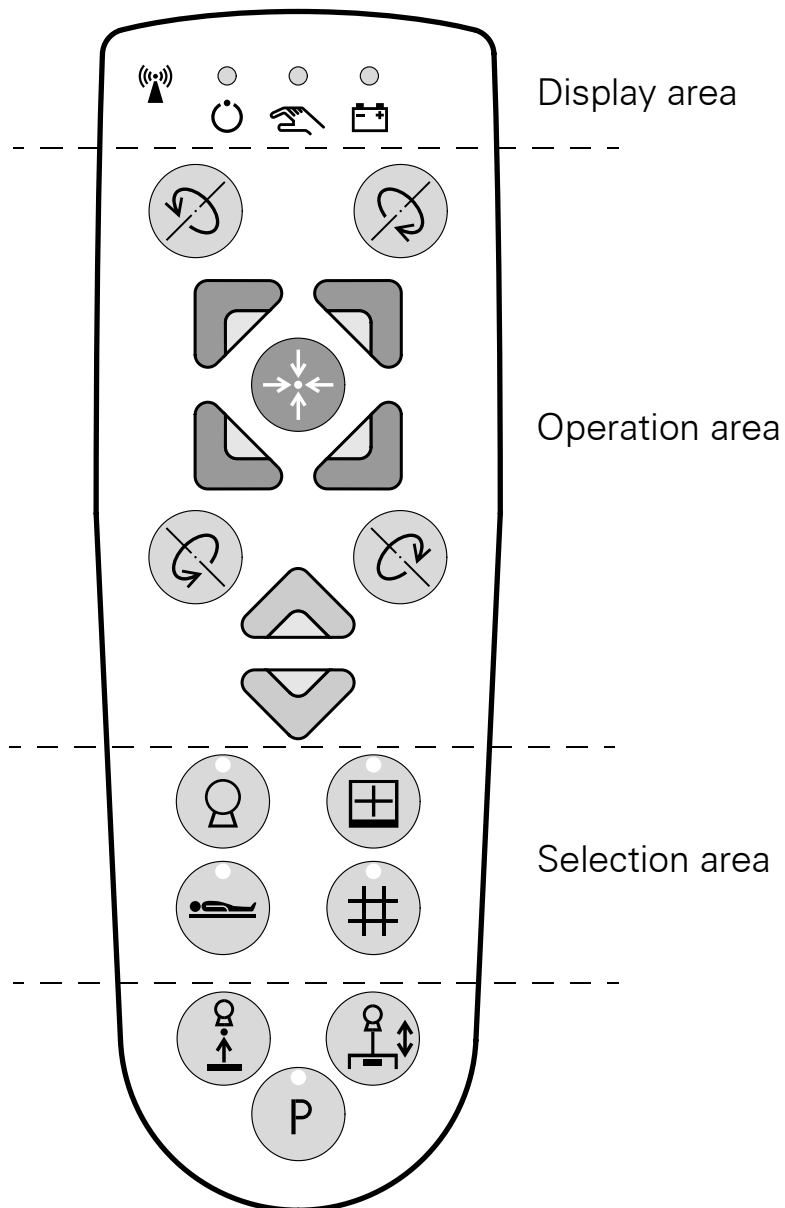
- ◆ Use remote control only when there is visual and accoustic contact with patient.
 - ◆ In case of unintended movement press next emergency STOP button.
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Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The Wireless Remote Control may be interfered with by other equipment, including portable and mobile RF communication equipment, even if such equipment meets the applicable emissions requirements.

The Wireless Remote Control must emit electromagnetic energy in order to perform its intended function. Nearby electronic equipment may be affected.

Operation



Wireless Remote Control (example)

The remote control is active in a range of appr. 5 m around the table/stand, where the receiver is mounted. If the remote control is in a wider range of the table, it may lose contact with the receiver and will then turn into an inactive mode.

Display area

There are 3 LEDs showing the status of the remote control.



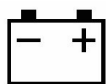
Green LED on: Remote control is on and is in active mode.

Green LED off: Remote control is inactive.

- It is too far away from the table
- The Aristos FX is switched off
- The batteries are completely discharged
- The remote control is in “sleep mode”. Press a button swiftly to activate it again.



Orange LED on: An operation button is being pressed.



LED off: battery sufficiently charged, remote control not connected to the Charging Station,

LED flashing red: battery needs charging, remaining capacity < 4h.

LED on red: remote control connected to Charging Station and batteries are being charged.

LED on green: remote control connected to Charging Station and batteries are fully charged.



This symbol marks an RF transmitting component.

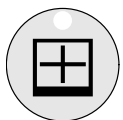
Selection area

In the selection area you can select which part of the system you want to operate.

The green LED on the selected button is on.



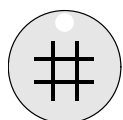
Selection of tube unit



Selection of detector

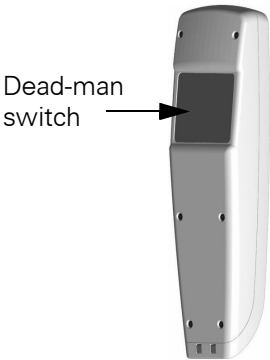


Selection of patient table



Selection of collimator

Operation area



On the backside of the remote control there is a dead-man switch. To execute an operation with a button of the operation area you have to press the dead-man switch simultaneously.
As soon as you release the dead-man switch, the current operation is stopped.

Angular movement of tube unit and detector



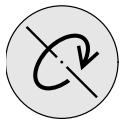
Angular movement of tube unit and detector counter-clockwise about the α -axis



Angular movement the tube unit and detector clockwise about the α -axis



Angular movement the tube unit and detector counter-clockwise about the β -axis

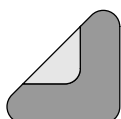


Angular movement the tube unit and detector clockwise about the β -axis

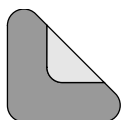
Opening/closing the collimator; moving tube unit and detector in x and y direction (orange and green)



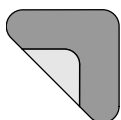
Closing the collimator in transverse direction
Moving tube unit and detector in x direction (orange)



Opening the collimator in transverse direction
Moving tube unit and detector in x direction (orange)

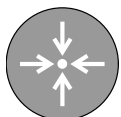


Closing the collimator in longitudinal direction
Moving tube unit and detector in y direction (green)



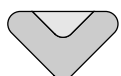
Opening the collimator in longitudinal direction
Moving tube unit and detector in y direction (green)

OGP position of patient table or parking position



Moving the patient table to OGP position;
Moving the system in parking position

Moving detector, tube unit and patient table



Moving up and down detector, tube unit and patient table.

'Center lock' tracking



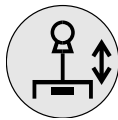
Disable/enable *'center lock'* tracking

- Press the *'center lock'* tracking button just for a short time (< 3 s) to activate or deactivate center-lock tracking at the current position.

When an OGP with centered tracking is selected press the tracking button longer than 3 s and keep it pressed (dead man switch). Detector and tube unit are then centered as programmed.

- LED at tube support control panel lights up when tracking is active
- LED at tube support control panel flashes when tracking is not possible or being in progress

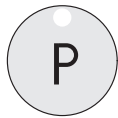
SID tracking



Disable/enable *SID* tracking control

- Press: The tracking control is switched off(on).
- LED at tube support control panel lights up when tracking is active
- LED at tube support control panel flashes when tracking is not possible or being in progress

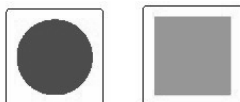
Parking position



Switching over the function of the OGP button to parking position

Marking signs

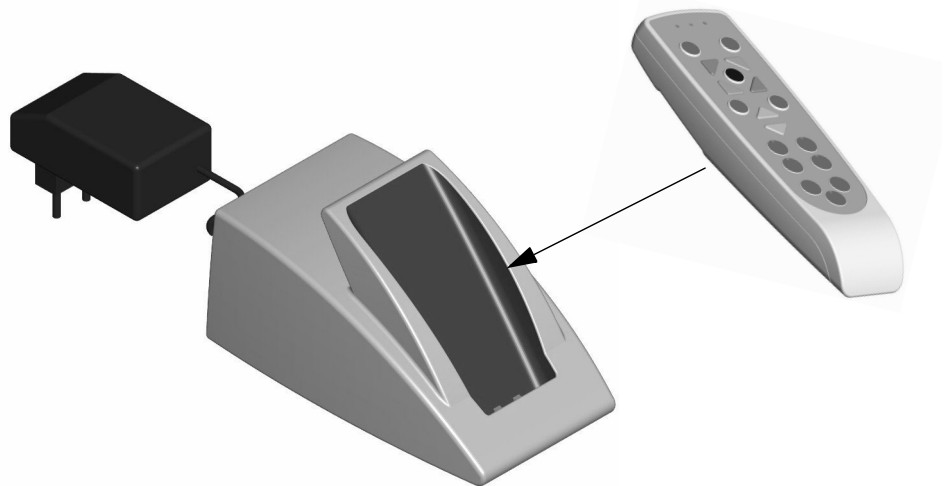
The Wireless Remote Control is marked with a colored sign of different shape to avoid a mix up for installations with a multitude of Wireless Remote Control. The same marks are attached to the respective table and room during installation.



These are two examples of colored signs of different shape to mark the remote control to an Aristos FX system.

Charging Station

The Wireless Remote Control is plugged in the Charging Station for charging the batteries. It is recommended to charge the batteries every day after deployment.



Charging Station

If the Wireless Remote Control needs charging during a patient procedure, simply plug it in the Charging Station.



Never use another charging device than the Charging Station delivered with the Wireless Remote Control.

Usage of another charging station may cause severe damage to the Wireless Remote Control or may lead to hazards for the patients when the Wireless Remote Control is recharged during operation.

Exchange of batteries

The batteries of the Wireless Remote Control must be exchanged once a year by authorized and trained staff. Please call Siemens Service. Unauthorized exchange may cause severe damage.

Technical Data

Active range	Approximately 5 m around the receiver mounted to the stand.
Charging time	Approx. 2 h
Operating time with full batteries	Approx. 12 h
Frequency range	2402 MHz - 2480 MHz
Modulation	GFSK
RF Power	0 dBm
RF emissions CISPR 11	Compliance: Group 2 The deployment of Wireless Remote Control in combination with Aristos FX changes the classification of Artis from compliance group 1 to compliance group 2.