



# User Manual

## SONESTA S2 & S3



Sonesta manufactures and sells tables and chairs for urology, gynecology, urodynamic diagnostics and upper GI procedures

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Technical lifetime 10 years.

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At the time of printing, this manual correctly described the device and its functions. However, as modifications may have been carried out since the production of this manual, the system package may contain one or more amendments to the manual. This manual including any such amendments must be thoroughly read, before using the device.

SONESTA MEDICAL AB is only responsible for the reliability and performance of the device if the following are strictly observed:

- Authorized personnel (see back of manual for authorized service centers) carry out all repairs and modifications.
- Only Sonesta spare parts are being used.
- Service manual with spare part list can be ordered from a Sonesta authorized distributor or from Sonesta Customer Service.
- The device must be used in accordance with the intended use and standards put forth in the Safety Information section.

If the points above are not strictly observed, the warranty will be considered invalid.

This manual contains different icons designed to improve readability and increase understanding of its content. Adhere to the following recommendations and the ones in the Service Manual for safe operation of the device and service.



**NOTE:** Sets apart special information or important instruction clarification.



**WARNING:** The symbol identifies situations or actions that may affect patient or user safety. Disregarding a warning could result in patient or user injury.



**CAUTION:** The symbol points out special procedures or precautions that personnel must follow to avoid equipment damage.



**CAUGHT WARNING:** The symbol highlights a risk of physical danger to the user or operator (ensure that hands, feet and equipment are clear of the frame assemblies when changing positions of the chair, always engage the brakes, verify the stability after brakes are engaged, except during transport).



**LIFTING WARNING:** The symbol highlights a risk of physical danger to the user or operator when lifting parts or chair. Use proper lifting methods.

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# Safety Information

This product is CE marked in conformity with the requirements of the Medical Device Directive 93/42/EEC Annex 1, VII and IX. This product is UL certified and marked in conformity with the requirements of the IEC 60601-1-6:2010 (Third Edition) + A1: 2013.

Adhere to the following recommendations for safe operation of the device:

- Do not attempt to open the control box or actuators.
- Do not immerse the control unit device in water or any other liquid (see the Cleaning section for specific details).
- The power connector also serves as the main power switch i.e. remove the power connector to power off.
- Unplug the power connector from its power source before cleaning or servicing. Failure to do so could result in equipment damage.
- Ensure that the power cord does not become pinched between mechanisms during normal operation of the chair. Failure to do so can result in equipment damage.
- Ensure that the cables are undamaged before use.
- Do not connect the power connector or any control unit connector to anything other than the appropriate input on the device.
- The chair is only to be used with medical equipment complying with EN 60601-1. EN 60601-1-2.
- The device is not intended for use with flammable anesthetic gases. A possible explosion hazard exists and personal injury or equipment damage could occur.
- Ensure that hands, feet and equipment are clear of the frame assemblies when changing positions of the chair.
- Always engage the brakes, except during transport, verify the stability after brakes are engaged.
- A patient should never enter the chair by using the footrests to stand on. This may cause tipping of the chair, and can cause patient injury.
- The chair is not intended to be used during invasive surgical procedures.
- Use only Sonesta spare parts.

## Limitations and Warnings



- 170 kg

The S2 chair is tested for a patient weight of maximum 170 kg.



- 210 kg

The S3 chair is tested for a patient weight of maximum 210 kg.



- 50 kg

Ensure that the patient does not attempt to stand on footrests or extensions cushions. The chair may become unstable and risk tilting, causing injury. The maximum weight the footrests can take while standing is 50 kg. The extension cushions are designed only for the patient's leg to rest on during an exam. The extension cushions should never be used to enter or exit the chair. The warning label should always be fixed to the end of the extension cushion.



### NOTE:

Ensure that the patient is never left unattended due to the risk of the patient not using the chair according to the user manual.

# Symbols

## Explanations of the symbols found on the body of the device:



Attention, see accompanying documents



Type B, equipment providing a particular degree of protection against electric shock



The device complies with the EC directive 93/42/EEC on medical devices

IPX6

Degree of protection, EN 60529 (ingress of foreign objects and water)



Maximum safe workload icon



S2: Maximum safe workload 170 kg

S3: Maximum safe workload 210 kg



2 min per 18 min

Duty cycle icon, duty cycle 2 min per 18 min



Potential equalization connection point



The UL certification mark

# Classification

## Degree of Protection Against Electric Shock:

- Type B (Body): equipment providing particular degree of protection against electric shock, particularly regarding allowable leakage current.

## Degree of Protection Against Harmful Ingress of Foreign Objects and Water:

- IPX6

## Degree of Safety in Presence of Inflammable Anesthetics:

- The device is not intended for use with flammable anesthetic gases.

## Mode of Operation:

- Intermittent operation.

## Duty Cycle:

- 2 minutes per 18 minutes.

# Sonesta S2 Chair

## Intended Use

The Sonesta S2 chair is designed to position the patient in a desired position during the following procedures:

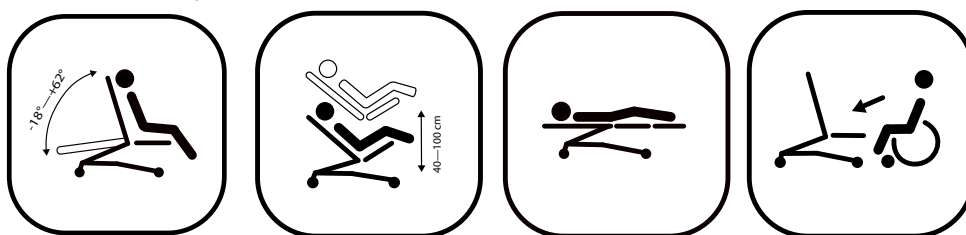
- Urodynamic
- Pelvic Muscle Rehabilitation
- Anorectal Manometry
- Pelvic Exam
- Cystoscopy
- Ultrasound
- Vasectomy
- Colposcopy
- Biopsy
- Colonoscopy
- Gynecologic Procedure



## Description

1. Back cushion
2. Paper roll holder
3. Arm rest
4. Screw for adjusting the leg rest and the leg rest holder. Release the screw to adjust the height of the leg rest or the position of the leg rest holder.
5. Locking mechanism for wheels
6. Quick release (Trendelenburg) handle. Push lever towards the cushion to release and adjust speed and position by hand
7. Seat cushion
8. Leg rest
9. Leg rest adjustment screw. Release screw to adjust angle of the leg rest and then secure.

## Operation Range



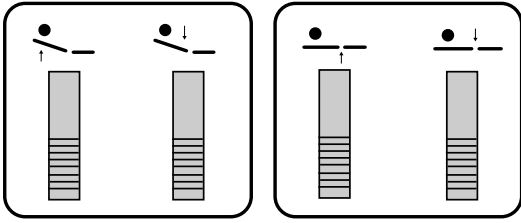
## Measures and Weights

Unit	Width (max.)	Length (max.)	Height (min.–max.)	Chair weight (max.)
Metric (cm)	77	143 W/O extension cushions 174 W/ foot rest 193 W/ extension cushions	40-100	100 kg
US (Inches)	30	56 W/O extension cushions 68.5 W/ foot rest 76 W/ extension cushions	16-39	220 lbs.

## Controls

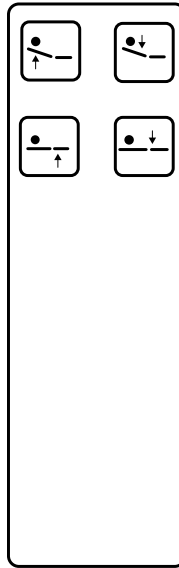
The S2 chair has two motors which are operated with the foot control or hand control.

### Foot Control



1. Up (back cushion)
2. Down (back cushion)
3. Up (chair)
4. Down (chair)

### Hand Control (optional)



1. Up (back cushion)
2. Down (back cushion)
3. Up (chair)
4. Down (chair)

# Sonesta S3

## Intended Use

The Sonesta S3 chair is intended to position the patient in a desired position during the following procedures:

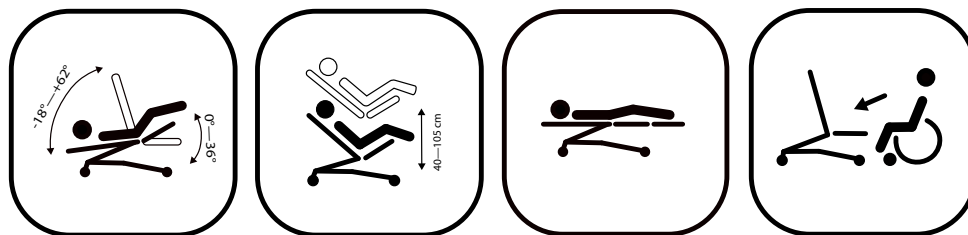
- Urodynamic
- Pelvic Muscle Rehabilitation
- Anorectal Manometry
- Pelvic Exam
- Cystoscopy
- Ultrasound
- Vasectomy
- Colposcopy
- Biopsy
- Colonoscopy
- Gynecologic Procedure



## Description

1. Paper roll holder
2. Quick release handle (Trendelenburg). Push lever towards the cushion to release and adjust speed and position by hand.
3. Pelvic locking device, enables the seat and back to be in a fixed angled position – which then can be tilted to desired position.
4. Arm rest
5. Lever for adjusting the leg rest and the leg rest holder. Release the lever to adjust the height of the leg rest or the position of the leg rest holder.
6. Locking mechanism for wheels
7. Neck pillow
8. Back cushion
9. Seat cushion
10. Leg rest
11. Leg rest adjustment screw. Release screw to adjust angle of the leg rest and then secure.
12. Fold up foot rest

## Operation Range



## S3 Measures and Weights

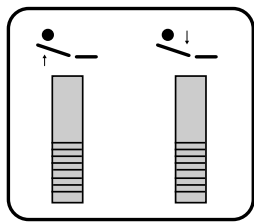
Unit	Width (max.)	Length (max.)	Height (min.-max.)	Chair weight (max.)
Metric (cm)	77	143 W/O extension cushions 174 W/ foot rest 193 W/ extension cushions	40-105	125 kg
US (Inches)	30	56 W/O extension cushions 68.5 W/ foot rest 76 W/ extension cushions	16-41	276 lbs.



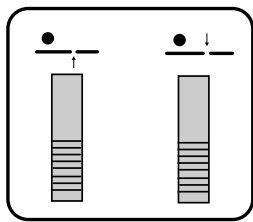
## Controls

The S3 chair has three motors which are operated with the foot control or hand control.

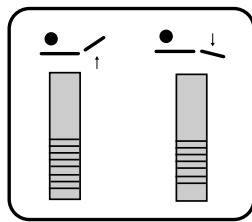
### Foot Control



1. Up (back cushion)
2. Down (back cushion)

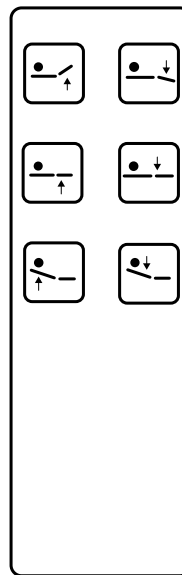


3. Up (chair)
4. Down (chair)



5. Up (seat cushion)
6. Down (seat cushion)

### Hand Control (optional)



1. Up (seat cushion)
2. Down (seat cushion)
3. Up (chair)
4. Down (chair)
5. Up (back cushion)
6. Down (back cushion)

## Pelvic Locking Device

The chair can be used to rotate the pelvic area or be placed in a forward tilt position by using the locking knob. Set the chair in a fixed angle, using the locking knob. And then use the control to tilt the chair into desired position.



#### CAUTION:

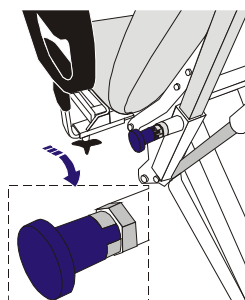
Remove drainage receptor and holder/funnel or other option fitted beneath the seat cushion before setting the table in forward tilt position.



#### CAUTION:

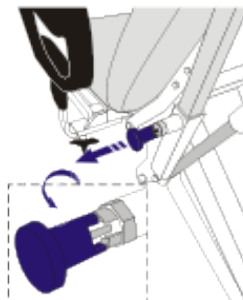
Makes sure the chair is in it highest position before setting the table in forward tilt position.

1.



To **lock** the chair in a fixed angle, set the back cushion into upright position. Pull and rotate the locking knob into **locked position** as shown.

2.



To **unlock** the fixed angle, set back cushion into upright position. Pull and rotate the locking knob into **un-locked position** as shown.

# Accessories

The Sonesta chairs have several accessories, which are standard or optional. All of our accessories are designed with a user-friendly perspective and are easy to mount and adjust.

Before use: always check that the accessories are mounted correctly.

## S2 standard accessories list:

2 Arm rests	525-6339-2
2 Leg rests holder	525-6338
2 Leg rest	525-6336
1 Paper roll holder	525-6326
1 Two motor foot control	524-6353
1 Seat cushion with cutout	525 6366-3

## S3 standard accessories list:

2 Arm rests	525-6339-2
2 Leg rests holders	525-6338
2 Leg rest	525-6336
2 Foot rests	525-6331
1 Seat cushion without cutout	525-6365
1 Cushion with cutout	525-6366-3
1 Paper roll holder	525-6326
1 Three motor foot control	524-6357
1 Neck pillow	525-6346

**Arm rest**



By pushing the blue button you enable easier access or create a side rail when the chair is in table position.

**Leg rest holder**



By loosening the handle, you can secure and release the grip as to adjust the leg rest to any height or width.

**Leg rest**



This leg rest has a ball and socket construction, setting the leg rest in any direction. Secure or release the grip as to angle it into the desired position.

**Foot rest**



Easily attached and removed with a click-off system. Adjustable in length as well as width, can slide outwards. Push lever to fold up.

**Seat cushion without cutout**



Simple click-on click-off system – lift the front edge, remove the cushion and replace with another cushion.

**Seat cushion with cutout**



Simple click-on click-off system – lift the front edge, remove the cushion and replace with another cushion.

**Paper roll holder**



Simply slip the paper roll onto the paper roll holder.

**Foot control**



Push the buttons to set the chair in desired position.

**Neck pillow**



Put the neck pillow band on the magnetic plate on the back and adjust the length into desired position.

# Maintenance

On a weekly basis, test the device for proper function and inspect cables for cuts and other damage. If in doubt, replace the relevant parts. The device should be cleaned routinely, as described below. Additional preventive maintenance and cleaning is required according to the Service Manual.

## Cleaning

All Sonesta's chairs and accessories must be cleaned regularly to maintain high quality and keep the items in a good condition. Please make sure that the following cleaning instructions are followed when cleaning the chair and its accessories.

- The unit needs to be unplugged from the wall power before any disinfection is made.
- Wipe all surfaces on the chair and the accessories thoroughly after each patient use.
- Wipe off urine, blood, and other body fluids from the device throughout the surgical procedure and as soon as possible after, to prevent them from drying onto the surfaces.
- Please note that Sonesta recommends removing the seat cushion after each use and to wipe the surfaces below the seat cushion as well as the back of the seat cushion. Sonesta also recommends disassembling the leg rest holders and leg rests from the side rail to allow all angles of these items to be cleaned.
- Sonesta recommends cleaning the chair and its accessories with a dampened cloth and ordinary disinfectants, soap suds or mild detergents. Use any of the below listed recommended disinfectants on all surfaces. If they are not available, use any disinfectant with a 1:10 dilution of bleach (5.25% sodium hypochlorite) or 45 % isopropyl alcohol.

### Suggestions on recommended disinfectants:

- PDI Sani-Cloth SANI-CLOTH® Bleach Wipe: Germicidal Disposable wipe.
- Clorox HealthCare Disinfecting Wipes®
- Ytdesinfektion LIV Des +45®



**WARNING:** Improper, or lack of cleaning after each use of the chair will cause damage to the appearance and performance such as corrosion.



**WARNING:** Iodophor type disinfectants (betadine, for example) may stain the cushions.



**WARNING:** Prolonged contact with bleach solutions with improper dilution ratios (for) in any cleaning agent may cause damage to both the appearance and performance.

## Technical Lifetime

These products have a technical lifetime which, by Sonesta Medical AB, is considered to be 10 years. At the time of delivery the products fulfil the existing regulations and standards, but as all other electro-mechanical products, the Sonesta S2 and S3 chairs are subjected to age and wear, and even though the products undergo regular and prescribed service, Sonesta Medical AB can not guarantee the products' safety after the expiry of the technical lifetime.

# Technical Data

## Model

Sonesta S2, two motors (lift, back)  
Sonesta S3, three motors (lift, seat, back)

## Power Supply

Power consumption S2: max 2.7A (120V~), 1.5A (230V~).  
Power consumption S3: max 5.8A (120V~), 3.0A (230V~).  
Input: 120 V ~ 60 Hz.  
230 V ~ 50/60 Hz.  
Output: 24VDC (to motor).  
Type of Protection: Class 1, Type B.

## Operating Conditions

Temperature +10°C to +40°C (50°F to 104°F)  
Humidity 30% – 75%.  
Atmospheric pressure 700hPa – 1060hPa

## Storage Conditions / Transportation Requirements

Temperature -10°C to +50°C (14°F to 122°F)  
Humidity 10% – 80%rh @ 30°C not condensing  
Atmospheric pressure 700hPa – 1060hPa

## Disposal

The chair should be disposed or recycled according to local laws and regulations.

# Service Centers

## Sweden

Sonesta Medical AB  
Industrivägen 7  
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