

USER MANUAL

SMART STORAGE AGITATOR – SST-A

MODEL SST-A30



biolog»**id**

Connecting healthcare to empower people

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1 General information to the user



1.1 Function of the Manual

The user manual must be read thoroughly and carefully before using.

This user manual informs you in a clear and detailed manner on how to use the SST-A30 and to carry out maintenance correctly and safely.

The illustrations and photos in this manual are representative of the SST-A30.

This also applies to all actions, remarks and explanations contained in this manual.

All paper and electronic documentation relating to your SST-A30 must be retained for the life of your equipment.

1.2 Manual Recipient

This manual is for all users' groups in SST-A30 throughout its cycle of usage. All topics and important areas for different groups are treated.

1.3 Manual Plan


The structure of the chapters chronologically follows the various SST-A30 usage phases.

A chapter is dedicated to general safety. Please read this chapter.

1.4 User Tips

If this manual does not give you an answer in case of issues during the operation of the SST-A30 or if you have any questions concerning the use of the SST-A30, do not hesitate to contact us at the following email address Customercare@biolog-id.com.

In the event of a major incident related to SST-A30, you must report it to the manufacturer and to the competent authority of the Member State in which you are established.

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1.5 Additional Documents to this Manual

In parallel with this user manual the below is provided:

- Installation and maintenance instructions. **Note that the installation of the SST-A30 must be performed by a trained and authorized person by Biolog-id.**
- A manual for using the GUI (Graphical User Interface).

All these manuals are available only in paper format.

2 Presentation of the Smart Storage Agitator 30

2.1 Claimed Use of SST-A30

The SST-A30 is a class I medical device used as an accessory to the Helmer PF48 Platelet Agitator.

The SST-A30 is a Radio Frequency Identification (RFID) product applied to the traceability of Platelet Concentrate (PC) bags. It secures the storage of bags: the history of each bag is recorded and accessible to the user. This system makes it possible to trace all the movements (entry and exit of bags from a platelet agitator).

The SST-A30 constantly communicates with the RFID tags stuck on the PC bags so that it can display a stock status.

The SST-A30 can also exchange and write data by communicating with a third-party software. The latter can then display the data related to a bag (expiry date, movements).



Fig. 1: Example of an SST-30 set.

2.2 Environmental characteristics

The SST-A30 is designed for usage in hospitals.

The SST-A30 is used in a platelet agitator Helmer PF48 This model has been specifically qualified to function with the SST-A30.



Fig. 2: SST-A30 for PF48 drawers set.

The incubator / climatic chamber of the blood bank compatible with the SST-A30 manages the climatic aspects (temperature and hygrometry) of conservation of labile blood products. SST-A30 does not alter the performance of the platelet agitator nor the performance of the incubator in which the agitator is placed.

The environmental characteristics of use of SST-A30 are specified in the table below. These must be respected in order to preserve the proper functioning of the SST-A30.

Operating temperature	0 to 40°C (FYI: Globtek Power Supply: 0C to + 50°C)
Storage temperature	SST-A30 set: -10°C to 40°C Special recommendations should be taken for the storage of the two following components: Battery: 1 year: -20°C to 25°C

	3 months: -20°C to 45°C 1 month: -20°C to 60°C Button cell: CR2032 Recommended: + 10°C to + 25°C (not to exceed 30°C)
Operating Humidity	40% RH to 95% RH
Maximum storage humidity	40% RH to 95% RH (FYI: CR2032 button Recommended: 40% RH to 95% RH)
Atmospheric pressure	700hPa
Min / max	1060hPa

2.3 Description of SST-A30

This chapter details the different components of the SST-A30 as well as their function.



Fig. 3: SST-A30 set.

2.3.1 Calculator and Power



Fig. 4: Calculator and its power supply set.

The calculator in the SST-A30 system is responsible for managing data, queries and transferring information to higher-level applications (third-party software for example).

Power supply inlet voltage ranges from 100 to 240 VAC.

2.3.2 Drawer

The drawer is the component for storing the PC bags.

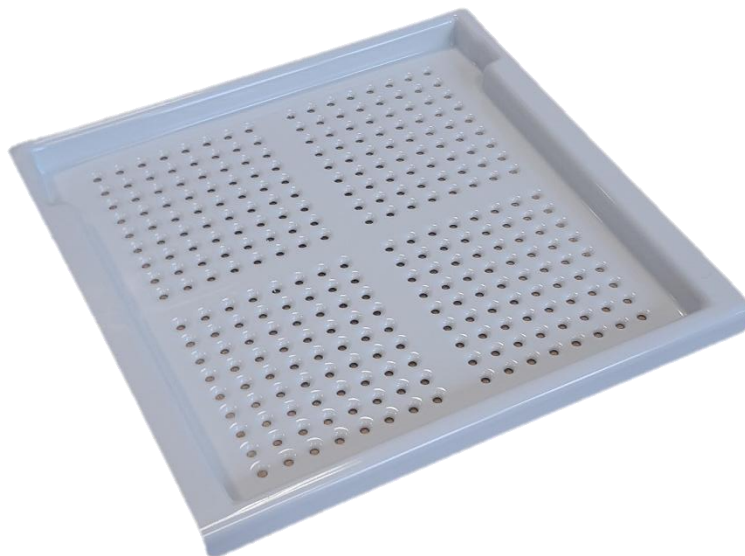


Fig. 5: Drawer.

2.3.3 Satellite

A RFID satellite placed between two drawers allows the localization of PC bags.

The satellite is a subset consisting of RFID antennas for communication with the RFID tag of the PC bag.

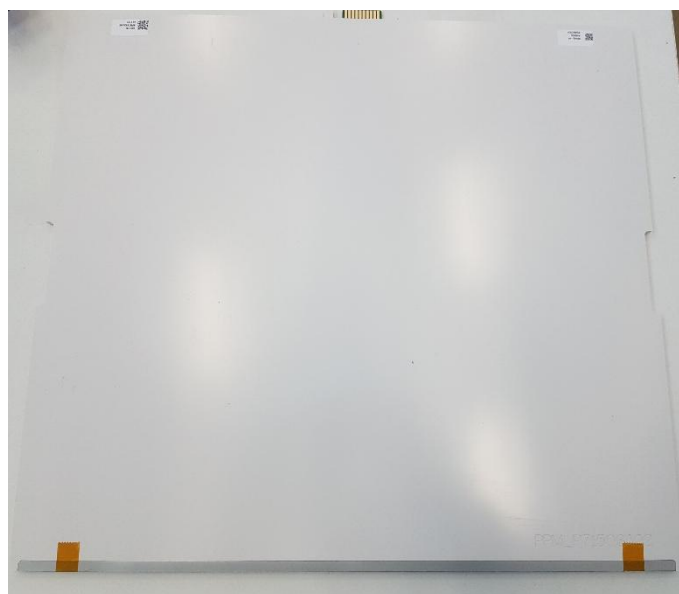


Fig. 6: Satellite.

The operating principle of the RFID system is based on a transponder (RFID tag) and an interrogator (coupler). The latter is an active radiofrequency transmitter device that will activate the RFID tags located in the slot by providing them with the energy they need to operate. In addition to the energy, the interrogator sends specific commands to which the RFID tag responds. For example, the interrogator can ask the tag to return the matching donation number associated to a unique identifier.

2.4 Hardware and software compatibility

2.4.1 Agitator

The SST-A30 is compatible with the Helmer PF48 agitator.

For more information, please contact Biolog-id's Quality Department at Qualite@biolog-id.com.

2.4.2 Climate chamber

The SST-A30 is compatible with all environmental chambers used for the storage of the PC bags if the platelet agitator is not an incubator.

2.4.3 RFID tag

The RFID tag is used to store products and patient data as well as PC bag traceability data.

Recommendation: For optimal localization, the tag should be centered on the bag.



Fig. 7: Platelet concentrate bag and RFID tag.

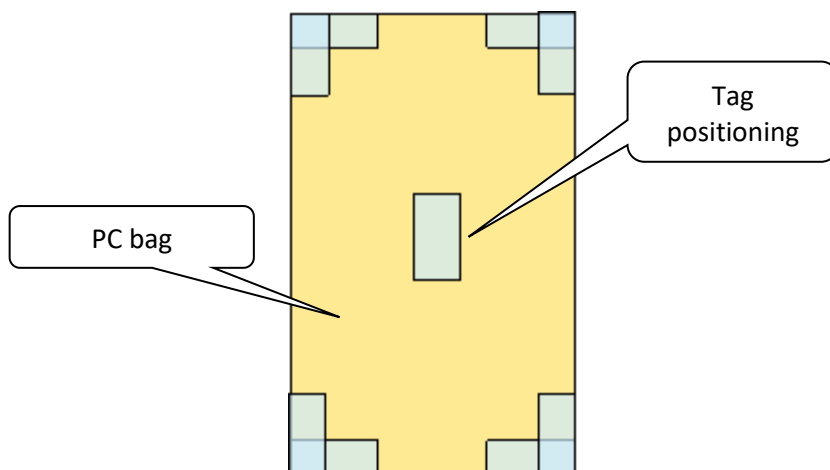


Fig. 8: Tag positioning.

You must place your RFID tag on the center of your bag so that the RFID tag cannot be within 2cm of the edges of the drawers of the SST-A30 (risk of non-detection of the RFID chip by the antenna of the drawer).

The RFID tags compatible with the SST-A30 are passive tags. For more information, please contact Biolog-id's Quality Department at Qualite@biolog-id.com.

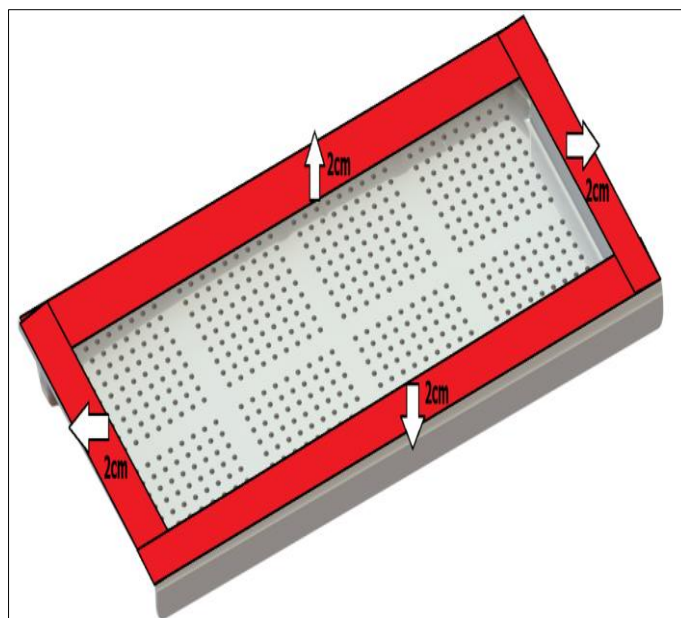


Fig. 9: Area of non-detection of the tag in red.

2.4.4 Third party software

The SST-A30 can subscribe a third-party software and communicate via its web service to share / exchange PC traceability data (standard communication protocol). The third-party software can then request the SST-A30 to write data to the RFID tag memory.

In case of use of such software, compatibility validation will be performed with Biolog-id.

The third-party system is responsible for interpreting the data received from the SST-A30.

3 Using Smart Storage Agitator (SST-A30)

This chapter aims to present the SST-A30 operation.

3.1 Implementation of PC bags into SST-A30



1. Open a drawer

2. Place the PC bag on the drawer










Note: In diagnostic mode (verification of the operation of RFID and LEDs) the front of the satellite flashes.

PC bags can be placed in any direction: in the width or length of the drawer. The maximum number of PC bags allowed per drawer is 2 for large sizes and 6 for standard sizes.

The RFID tag must be placed on the center of the bag containing the PC face up to a maximum height of 1.9 cm above the bottom of the drawer.

3.2 Using the Calculator

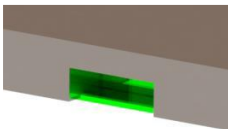
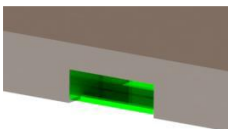
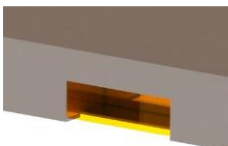
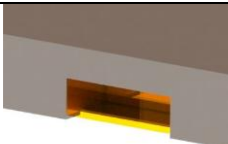
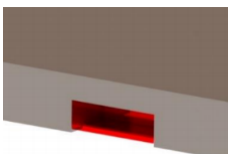
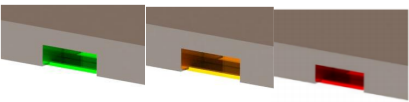
The calculator is outside of the incubator. On its facade, it has three types of LEDs, whose meanings are explained in this chapter.

Calculator LED Light Status		Hardware State
ORANGE LED ON steady		The battery is fully charged.
ORANGE LED ON blinking		The battery is charging.
ORANGE LED OFF		The battery is not charging and potentially discharged. Refer to chapter First Level Maintenance of this manual.
GREEN LED ON steady & RED LED OFF		Normal and functional operation mode.
GREEN LED ON blinking & RED LED OFF		Maintenance and functional operation mode (cleaning or technical intervention).
GREEN LED OFF & RED LED ON steady		Hardware failure or network disconnection. Refer to chapter First Level Maintenance of this manual.
GREEN & RED LED ON steady		Software crashed. Refer to chapter First Level Maintenance of this manual.

A battery built into the calculator box keeps the monitoring functions of the RFID electronics running in case of power interruption for less than 2 hours.

3.3 Status of the satellite LED

The satellites are placed between 2 drawers. On their front, they have a LED having 3 different colors whose meanings are explained in this chapter.

Satellites LED Light Status		Hardware State
GREEN LED ON steady		Normal and functional operation mode.
GREEN LED ON blinking		Maintenance and functional operation mode (cleaning or technical intervention).
ORANGE LED ON steady		An error occurs while reading/writing an RFID chip with no hardware failure identified. Refer to chapter First Level Maintenance of this manual. More details above this table.
ORANGE LED ON blinking		A drawer is left open more than 4 minutes. Close the drawer.
RED LED ON steady <i>Note: There is potentially no traceability at the location where the indicator is red.</i>		Hardware failure. Refer to chapter First Level Maintenance of this manual.
GREEN/ORANGE/RED cycle <i>Note: It is an indicator at start-up to check that when powering up the satellites are working.</i>		5 seconds on power up. Wait for the complete start of the hardware.
LED OFF		Hardware OFF or failure. Refer to chapter First Level Maintenance of this manual.

In the event of a writing failure on an RFID chip, an error message is returned to the third-party system that initiated the request and the LED of one or two satellites lights up in orange.

If the RFID chip that could not be written is in:

- drawer # 1
 - The LED of satellite # 1 is lit in orange

- drawer # 2
 - The LED of satellite # 1 is lit in orange
 - The LED of satellite # 2 is lit in orange
- drawer # 3
 - The LED of satellite # 2 is lit in orange
 - The LED of satellite # 3 is lit in orange
- drawer # 4
 - The LED of satellite # 3 is lit in orange
 - The LED of satellite # 4 is lit in orange
- drawer # 5
 - The LED of satellite # 4 is lit in orange



The orange LED should be off if the write operation is working again or if the RFID tag is no longer present.

4 Safety instructions

This chapter details the safety precautions to be applied when using the SST-A30.

Please read these instructions carefully.

4.1 General safety

	<ul style="list-style-type: none"> • Have all installation work and adjustments performed by qualified personnel only. Operations performed by persons lacking competence in this area may adversely affect the performance of the device and cause damage to property and body. • Only qualified service technicians will be authorized to perform maintenance operations and repairs. • Make sure that the power cord is not pinched or kinked when installing or moving the machine. • Do not disassemble or modify system elements once the installation has been validated. • Do not put an object other than insert bags on a drawer. • Do not lean on a drawer. • The SST-A30 cannot be stored or used outside the temperature and air pressure ranges specified in this manual (chapter 2.2) • Do not cover the drawers of the SST-A30 and / or obstruct the air vents. • The SST-A30 must be fixed in the Platelet agitator so that it cannot be disassembled without the use of a tool (as part of a maintenance operation). • Never allow water or other liquids to enter the equipment to avoid the risk of short circuiting or oxidation of metal parts. • The use of the SST-A30 is limited to trained and qualified personnel to work in a medical environment. • Excluding maintenance activities (see installation and maintenance manual), do not disconnect the power supply (100 / 240Vac - 15Vdc), do not disconnect the cable between the calculator and the RFID module attached to the back of the unit, do not disconnect the Ethernet network cable. • Do not disconnect satellite from the RFID card if the SST-A30 system is powered.
	<ul style="list-style-type: none"> • The SST-A30 must only be used with the original accessories or original spare parts as these are the only accessories / spare parts whose reliability, safety and compatibility with our medical device have been checked. • In all circumstances, follow the instructions of the safety signs affixed to the SST-A30. • The safety instructions on or adjacent to the SST-A30 must always be legible and complete throughout the life of the product. If, during the life of the SST-A30, the safety signs are discolored or damaged, notify the Biolog-id support service (Customercare@biolog-id.com).


- The agitator with the SST-A30 set must be placed on a bench or in an incubator.



- It is forbidden to push the SST-A30.
- It is forbidden to sit on a drawer.
- It is forbidden to go up and walk on a drawer.

RISK	SAFETY RULES
Contamination	Follow the cleaning instructions.
Handling	Operators must follow a training of a person authorized by Biolog-id to know the operation of the product and its documentation, and especially the safety instructions.
Electric	The connection cables of the power supply must be installed in accordance with the national regulations in force.
Electric	The machine-specific electrical voltages must be considered and compared to the voltages at the installation site on the nameplate before connecting the installation.
Electric	Follow the wiring diagrams of the machine.
Electric	Connect inevitably the device to a socket protected by a protective conductor.
Electric	To prevent the device from failing due to problems with other electrical appliances, it must be connected to a separate electrical circuit. You should not connect it with other electrical devices to a multiple socket under any circumstances.
Electric	Before connecting and commissioning the machine, check that the power supply is correctly connected. Make sure that the connection plug of the device is easily accessible so that it can easily be removed, if necessary, without having to push other devices. The socket plug serves as a disconnecting device for the network
Mechanical	Check the fasteners regularly. Ensure that only operators trained and familiar with security measures use SST-A30. Draw the drawers only by the handle provided for this purpose.

4.2 Hazards of RF radiation

	<p>The SST-A30 electronic system antennas each emit a frequency of 13.56 MHz with a maximum output power of 4,07dBμA/m at 3 m (less than the 42dBμA/m limit threshold), for the PRD_7150200A. For the PRD_7150200B and the PRD_7150200C, the maximum antennas output power is 7.25dBμA/m at 10 m (less than the 42dBμA/m limit threshold).</p>
	<p>ELECTROMEDICAL EQUIPMENT requires special precautions regarding EMC. The SST-A30 must be installed and put into service according to the EMC information provided by the ACCOMPANYING DOCUMENTS.</p>
	<p>Portable or mobile RF communications devices may affect ELECTROMEDICAL EQUIPMENT</p>
	<p>The use of ACCESSORIES, transducers, and cables other than those specified, except for transducers and cables sold by the EQUIPMENT MANUFACTURER or EM SYSTEM as replacement parts for internal components, may result in an increase in EMISSIONS or a decrease in the IMMUNITY of the DEVICE or EM SYSTEM.</p>
	<p>The DEVICE or EM SYSTEM should not be used alongside other devices or stacked with them.</p>
	<p>The DEVICE or the EM SYSTEMS may be interfered with by other devices, even if they comply with the CISPR EMISSION REQUIREMENTS.</p>

4.3 Electromagnetic compatibility

The SST-A30 complies with applicable electromagnetic compatibility standards, however, the user will ensure that any electromagnetic interference does not create an additional hazard, such as radiofrequency transmitters or other electronic devices.


In this chapter you will find necessary information to ensure an installation and a commissioning of the SST-A30 in best conditions in terms of electromagnetic compatibility. The different cords of the SST-A30 must be distant from each other.

Some types of mobile telecommunication devices such as mobile phones are likely to interfere with the SST-A30. The separation distances recommended in this chapter must therefore be strictly observed.

The SST-A30 must not be used near or on another device. If this cannot be avoided, it must be checked for proper operation under the conditions of use before use. Use of accessories other than those specified or sold by Biolog-id as replacement parts may result in increased emission or decreased immunity of the SST-A30.

The SST-A30 uses the 13.56 MHz frequency. The frequency band is 13.553 - 13.567 MHz in accordance with the ISO 15693 standard. The modulation type is ASK and the RF mode is TX/RX.

The maximum output power of the PRD_7150200A is 4,07dBμA/m at 3m. For PRD_7150200B and PRD_7150200C, the maximum output power at 10 m is 7.25dBμA/m.

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The tables below are for the SST-A30 (PRD_7150200A), the SST-A30 (PRD_7150200B) and the SST-A30 (PRD_7150200C).

All information featured below comes from normative requirements which apply to the manufacturers of medical electrical devices, under standard IEC60601-1-2 Ed4.

Length of cables:

Cables and accessories	Maximum length	Type of test	In accordance with:
Power cable	< 3m	RF emission	CISPR 11, Class B
		Harmonic current emissions	IEC 61000-3-2
		Voltage fluctuation and flicker	IEC 61000-3-3
		Electrostatic discharge immunity	IEC 61000-4-2
CAN cable	< 3m	Radiated immunity – Electromagnetic fields	IEC 61000-4-3
		Immunity to fast transient bursts	IEC 61000-4-4
Ethernet cable	> 3m	Surge immunity	IEC 61000-4-5
		Conducted immunity – Conducted radio frequency interference	IEC 61000-4-6
		Radiated immunity - Magnetic fields	IEC 61000-4-8
		Voltage dips, short interruptions, and voltage variations immunity	IEC 61000-4-11

Recommended separation distances

The SST-A30 is intended to be used in an electromagnetic environment in which radiated RF disturbances are controlled.

The user or installer of the medical device can help prevent any electromagnetic interference by maintaining a minimum distance, as a function of the maximum power output of the radio frequency transmission equipment. Portable RF communication devices (including peripherals such as antenna cables and external antennas) should not be used within 30 cm (12 inches) of any part of the SST-A30, including cables specified by the manufacturer. Otherwise, the performance of these devices could be adversely affected.

Electromagnetic emissions

The SST-A30 is intended to be used in the electromagnetic environment described in the table below. The user and installer must therefore ensure that the SST-A30 is used in the environment described below.

Emission test	Compliance	Electromagnetic environment - comments
Radiated electromagnetic disturbance (Radiated emissions) (CISPR 11)	Group 1	The PRD_7150200A, PRD_7150200B, PRD_7150200C medical devices use RF energy for internal operation.
Power terminal disturbance voltage	Class B	NA


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(Conducted emissions) (CISPR 11)		
Harmonic current emissions (IEC61000-3-2)	Compliant	
Voltage variations, voltage fluctuations and flicker (IEC61000-3-3)	Compliant	

Magnetic and electromagnetic immunity

The SST-A30 is intended to be used in the magnetic and electromagnetic environment described in the table below. The user and the installer must guarantee the compliance of the electromagnetic environment.

Immunity test	Test level according to IEC60601	Compliance level	Electromagnetic environment/comments
Electrostatic discharge (ESD) (IEC61000-4-2)	± 8 kV contact discharge ± 2 kV; ± 4 kV; ± 8 kV; ± 15 kV air discharge	± 8 kV contact discharge ± 15 kV air discharge	Professional healthcare facility environment.
Fast transient bursts (IEC61000-4-4)	± 2 kV for power supply lines	± 2 kV for power supply lines ± 1 kV for signal ports	Professional healthcare facility environment.
Surges (IEC61000-4-5)	± 1 kV in Differential mode ± 2 kV in common mode	± 1 kV in Differential mode ± 2 kV in common mode	Professional healthcare facility environment.
Power-frequency magnetic field (IEC61000-4-8)	30 A/m	30 A/m	Professional healthcare facility environment.
Voltage dips, short interruptions, and voltage variations (IEC61000-4-11)	0% UT for 0.5 cycles At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% UT for 1 cycle 70% UT for 25 cycles at 50 Hz For 30 cycles at 60 Hz Single-phase: at 0°	0% UT for 0.5 cycles At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% UT for 1 cycle 70% UT for 25 cycles at 50 Hz For 30 cycles at 60 Hz Single-phase: at 0°	Professional healthcare facility environment.
Voltage interruptions (IEC61000-4-11)	0 % UT; for 250 cycles at 50 Hz for 300 cycles at 60 Hz	0 % UT; for 250 cycles at 50 Hz for 300 cycles at 60 Hz	Professional healthcare facility environment.

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Electromagnetic immunity, radio frequencies

The SST-A30 is intended to be used in the magnetic and electromagnetic environment described in the table below. The user and the installer must guarantee the compliance of the electromagnetic environment.

Immunity test	Test level	Compliance level	Electromagnetic environment/comments
WARNING: Portable RF communication devices (including peripherals such as antenna cables and external antennas) should not be used within 30 cm (12 inches) of any part of the PRD_7150200A, the PRD_7150200B and the PRD_7150200C, including cables specified by the manufacturer. Otherwise, the performance of these devices could be adversely affected.			
Radiated RF electromagnetic fields (IEC61000-4-3)	3 V/m 80 MHz to 2.7 GHz 80% MA at 1 kHz	3 V/m 80 MHz to 2.7 GHz 80% MA at 1 kHz	Professional healthcare facility environment.
Proximity fields emitted by wireless RF communication devices (IEC 61000-4-3 interim method)	9 V/m 710 MHz, 745 MHz, 780 MHz, 5240 MHz, 5550 MHz, 5785 MHz 27 V/m 385 MHz 28 V/m 450 MHz, 810 MHz, 870 MHz, 930 MHz, 1720 MHz, 1845 MHz, 1970 MHz, 2450 MHz	9 V/m 710 MHz, 745 MHz, 780 MHz, 5240 MHz, 5550 MHz, 5785 MHz 27 V/m 385 MHz 28 V/m 450 MHz, 810 MHz, 870 MHz, 930 MHz, 1720 MHz, 1845 MHz, 1970 MHz, 2450 MHz	Professional healthcare facility environment.
Conducted disturbances, induced by RF fields (IEC610004-6)	3 V 150 KHz to 80 MHz 6 V within ISM band and band ranging from 0.15 MHz to 80 MHz, 80% MA at 1 KHz	3 V 150 KHz to 80 MHz 6 V within ISM band and band ranging from 0.15 MHz to 80 MHz, 80% MA at 1 KHz	Professional healthcare facility environment.

4.4 Contraindications

As a prevention, it is advisable for people with a pacemaker not to use the SST-A30.

4.5 Warning for United States users

Federal Communication Commission Interference Statement 47 CFR Section 15.105(b)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The PRD_7150200A, PRD_7150200B and PRD_7150200B comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NO UNAUTHORIZED MODIFICATIONS 47 CFR Section 15.21

CAUTION: This equipment may not be modified, altered, or changed in any way without signed written permission from Biolog-id. Unauthorized modification may void the equipment authorization from the FCC and will void the Biolog-id warranty.

This device complies with FCC RF radiation exposure limits set forth for general population (uncontrolled exposure). This device must be installed to provide a separation distance of at least 20cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

4.6 Warning to users in the CANADA/Attention pour les utilisateurs au CANADA

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This device complies with Industry Canada RF radiation exposure limits set forth for general population (uncontrolled exposure). This device must be installed to provide a separation distance of at least 20cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) il ne doit pas produire de brouillage, et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada.

Dans le but de réduire les risques de brouillage radioélectrique à l'intention d'autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent appareil est conforme aux niveaux limites d'exigences d'exposition RF aux personnes définies par Industrie Canada. Cet appareil doit être installé afin d'offrir une distance de séparation d'au moins 20cm avec l'utilisateur, et ne doit pas être installé à proximité ou être utilisé en conjonction avec une autre antenne ou un autre émetteur.

5 Cleaning Instructions

This chapter explains the procedure for cleaning the SST-A30.

For proper operation, clean the SST-A30 at least once a month and more if necessary.

Only personnel qualified by the establishment are authorized to clean the SST-A30. Cleaning personnel should be aware of the operation of the SST-A30 and its documentation, especially the safety instructions.

The cleaning must be done as follows:

- ✓ Put the SST-A30 in maintenance mode.
- ✓ Move the bags into another agitator.
- ✓ Use a chemically compatible spray product with SST-A30 component materials, combining cleaning and disinfecting and scrubbing with a soft cloth.




1. Apply the disinfectant detergent spray to the area to be treated or to a nonwoven wipe.



2. Distribute the product.




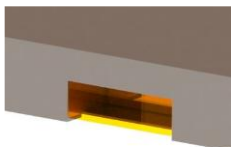
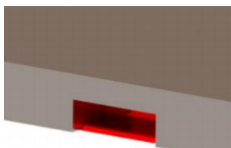
To clean and maintain the proper functioning of the SST-A30, we advise you to follow the instructions below.

	Before each cleaning, make sure to put the SST-A30 in maintenance mode (see GUI manual).
	Risks of material damage caused by the use of unsuitable cleaning utensils, high-pressure cleaner, or water spray or under pressure.
	Do not use cleaning products containing: <ul style="list-style-type: none"> - Acids and halogenated compounds (chlorides, bromides, iodides) - Strongly acidic salts, e.g., descaler based on formic acid and amino sulfonic acid. - Pipeline stripper, hydrochloric acid, silver cleaner. - Chlorine. - Abrasive and scouring components (scouring powder, steel wool) - Polishing products, waxes, bleaching agents.
	It is imperative to observe the instructions of the manufacturer of the cleaning agent used with regard to temperature, dosage, time of action, etc.

After all the cleaning operations: verify that the unit is operational.

6 First Level Maintenance

This chapter describes the first-level failures, which you can meet when using the SST-A30.

LED Light Status		Actions to be taken
<p>The calculator has the ORANGE LED OFF</p> <p>The battery is not charging and potentially discharged.</p>		<ol style="list-style-type: none"> 1. Make sure the calculator is correctly powered. 2. Contact Biolog-id support.
<p>The calculator has the GREEN LED OFF & RED LED ON steady</p> <p>Hardware failure or network disconnection.</p>		<ol style="list-style-type: none"> 1. Check connection to ethernet cable and/or reset network switch device. 2. Change for maintenance mode and then restart the calculator. 3. Contact Biolog-id support.
<p>The calculator has the GREEN & RED LED ON steady</p> <p>Software crashed.</p>		<ol style="list-style-type: none"> 1. Change for maintenance mode and then restart the calculator. 2. Contact Biolog-id support
<p>The drawer satellite has ORANGE LED ON steady</p> <p>An error occurs while reading/writing an RFID chip with no hardware failure identified.</p>		<p>Moving the bags to another location and try again.</p>
<p>The satellite has RED LED ON steady</p> <p>Hardware failure.</p> <p><i>Note: There is potentially no traceability at the location where the indicator is red.</i></p>		<ol style="list-style-type: none"> 1. Move the bags to a functional drawer. 2. Satellite has become loose. Push satellite back into place. 3. Change for maintenance mode and then restart the calculator. 4. Contact Biolog-id support
<p>The satellite has the LED OFF</p> <p>Hardware OFF or failure.</p>		<ol style="list-style-type: none"> 1. Move the bags to a functional drawer. 2. Check that the satellite is well connected. 3. Make sure the calculator is correctly powered. 4. Change for maintenance mode and then restart the calculator. 5. Contact Biolog-id support.

In case of fault, the RFID traceability can be interrupted. This interruption is referenced in the product event log.

When a red LED appears, try to detect the cause of the fault, and eliminate it as soon as possible.

Red LED calculator	
Possible causes	Action
Loss of communication on the CAN bus	Switch to maintenance mode and reboot the calculator.
CAN bus power shorted	Switch to maintenance mode and reboot the calculator.
Ethernet network disconnected	Disconnect and connect the Ethernet cable.
Insufficient SD Card memory space	Verify that a notification has been sent to the third-party system. Contact the administrator.
Power failure of at least one drawer	Verify that a notification has been sent to the third-party system. Contact the administrator.
Battery charger Failure	Verify that a notification has been sent to the third-party system. Contact the administrator.

Contact the supplier of your device in case of malfunction. Do not repair or modify the device without prior authorization from Biolog-Id. Any maintenance operation must be preceded by an SST-A30 mode change to enter maintenance mode (see GUI Manual).

7 Warranty

Any non-compliance with the recommendations will result in a breach of the warranty.

8 Transport

Upon receipt of the SST-A30, check that it has not been damaged during transport. If you notice any transport damage, immediately contact the carrier or your dealer with the delivery note or the purchase order.

9 Manufacturer Responsibility

The manufacturer's responsibility will not be held liable in case of:

- Non-compliance with manufacturer's recommendations on the installation.
- Intervention or repairs made by unauthorized persons by the manufacturer.
- Use on an electrical installation that does not conform to the regulations in force regulations.
- The uses other than those specified in this manual.
- Use of accessories (RFID chip temperature sensor ...) other than those provided by Biolog-Id.

10 Lifetime

Under the conditions of use and recommended maintenance, the service life is 10 years.

11 Disposal and recycling

Elimination and recycling of the SST-A30 must comply with the applicable national regulations. The individual components of the SST-A30 must be sorted and processed according to the appropriate waste disposal channels.

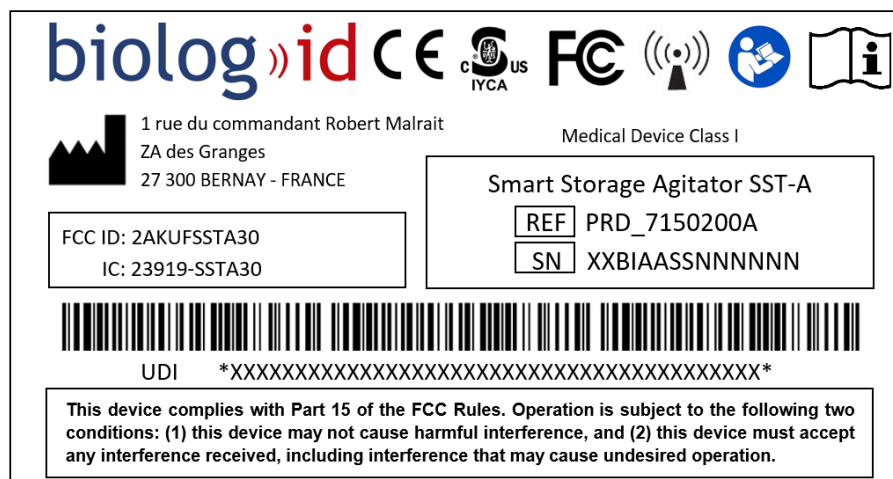


The different components of the SST-A30 being electrical and electronic equipment must be taken care of by a specialized collection, removal, and recycling or destruction channel.

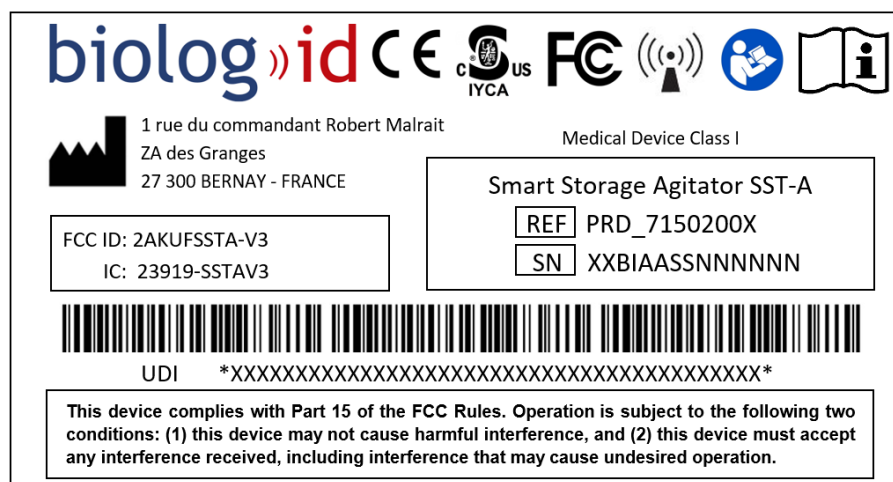
Batteries in the SST-A30 components must be removed from the components before disposal. They must be taken care of by a specialized collection, removal, and recycling or destruction channel.

12 Product identification

The product label below is affixed to each processor box (for the PRD_7150200A).



The product label below is affixed to each processor box (for the PRD_7150200B and the PRD_7150200C).



Detailed view of serial number **XX BI AASSNNNNNN**:

- **Product version:** 2 characters.
- **Supplier index:** 2 letters: BI (index allocated to each supplier and provided by BIOLOG_ID: BI represents Biolog-Id).
- **Year:** 2 characters: 00 to 99: 16 represents 2016.
- **Week:** 2 characters: 01 to 52: 45 represents week 45.
- **Serial number:** 6 characters: 000001 to 999999.

Only reset to 1 when the maximum value is reached or in accordance with Biolog-Id's instructions.

13 Logo description



: Read the User Manual.



: Read the User Manual.



: This product is FCC compliant.



: This product is NRTL compliant.



: This product is CE compliant.



: This product emits an electromagnetic field.