

UIS-360

Universal inoculation spinner



If you have any feedback on our products or services, we would like to hear from you.
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1. About this edition of the instructions

1.1. The current edition of instructions for use applies to the following models:

Model	Version
UIS-360, universal inoculation spinner	V.1AW

1.1.1. Revision number: 1.03

1.1.2. Release date: July of 2026.

1.2. Symbols used in this IFU:

 **Caution!** Please pay special attention to sections marked by this symbol.

1.3. Revision changelog

Edition	Date	Changes
1.01	04/2025	Initial IFU
1.02	07/2025	Logo change
1.03	07/2026	General and ordering information, image update

2. Safety precautions

2.1. General warnings:



Caution! Make sure you have fully read and understood the present instructions before using the equipment.

2.2. Icons used on the unit and packaging:

	CE marking, manufacturer affirms conformity with European health, safety, and environmental protection standards, see 11.1
	WEEE directive marking, see 11.1
	Polarity of the power connector
	Equipment uses direct current

2.3. General safety

- The protection provided by the equipment may be impaired if the equipment is used with accessories not provided or recommended by the manufacturer or used in a manner not specified by the manufacturer.
- Save the unit from shocks and falling.
- Store and transport the unit as described in the section **Storage and transportation**.
- Before using any cleaning or decontamination methods except those recommended by the manufacturer, check with the manufacturer that the proposed method will not damage the equipment.
- Do not make modifications in design of the unit.

2.4. Electrical safety

- Connect only to the mains with voltage corresponding to that on the serial number label.
- Use only the external power supply provided with this product.
- Ensure that the power plug is easily accessible during use.
- Disconnect the unit from the mains before moving.
- If liquid penetrates into the unit, disconnect it from the mains and have it checked by a repair and maintenance technician.
- Do not operate the unit in premises where condensation can form. Operating conditions of the unit are defined in the section **Specifications**.

2.5. During operation

- Do not impede the platform motion.
- Do not operate the unit in environments with aggressive or explosive chemical mixtures. Please contact manufacturer for possible operation of the unit in specific atmospheres.
- Do not operate the unit if it is faulty or has been installed incorrectly.
- Do not use outside laboratory rooms.

2.6. Biological safety

- The user is responsible to carry out appropriate decontamination if hazardous material spills on or penetrates into the equipment.

3. General information

- 3.1. **Intended use.** Universal Inoculation Spinner **UIS-360** is a versatile laboratory device for uniform spreading of liquids and inoculation on agar surfaces in square and round Petri dishes, providing adjustable speed and smooth rotation for consistent, reproducible results.
- 3.2. **Applications.** **UIS-360** supports microbial culture plating, diagnostic plate preparation, food and beverage quality control, pharmaceutical sterility testing and inoculation preparation, environmental sample analysis, and microbiology training in research, diagnostics, educational, food safety, pharmaceutical, and environmental monitoring laboratories.
- 3.3. **Features.** **UIS-360** has a universal platform for 125 × 125 mm square dishes and round dishes up to 105 mm, adaptable for 120–150 mm plates; adjustable speed 10–300 RPM; continuous or foot-switch control; protective face shield; compact durable design (170 × 190 × 110 mm); low power consumption 3.7 W; universal power supply 100–240 V~, 50–60 Hz; and autoclavable, UV-resistant components for decontamination and maintenance.

4. Getting started

4.1. **Unpacking.** Remove packing materials carefully and retain them for future shipment or storage of the unit. Examine the unit carefully for any damage incurred during transit. The warranty does not cover in-transit damage. Warranty covers only the units transported in the original package.

4.2. **Complete set.** Package contents:

4.2.1. Standard set:

- **UIS-360**, universal inoculation spinner 1 pce.
- Protective screen 1 pce.
- External power supply 1 pce.
- Foot switch **FS-1** 1 pce.
- Instructions for use, declaration of conformity 1 copy

4.2.2. Optional accessories, on demand:

- Adapted platform, for large plates 1 pce.
- USB-C to power socket 12V adapter 1 pce.

4.3. **Setup.** Place the unit on horizontal even working surface. Connect the external power supply unit into the socket at the rear side of the unit and position the unit for easy access to the external power supply.

4.3.1. **Protective screen installation.** Slide both feet of the protective screen between the body of the unit and the metal clamp below the platform. Push until the contour of the screen fits the unit.

4.3.2. **Foot switch FS-1 installation.** Position the switch on a secure surface. Connect the cable to the rear of the unit.



Caution! Do not connect the foot switch to USB ports of other devices.
Do not connect other devices to the USB port of the unit.

5. Operation

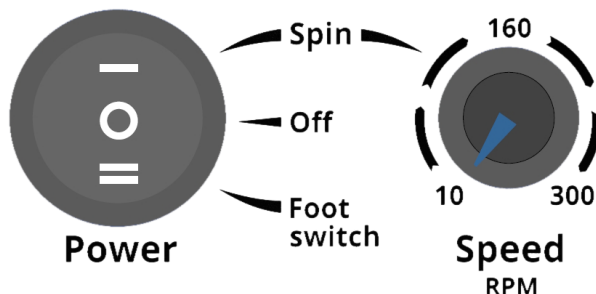


Figure 1. Control panel

5.1. Connect the external power supply to the electric circuit.

5.2. Check that the **Power** switch is in position O/**Off**.

5.3. Place samples on the unit platform, in the centre – maintain radial symmetry in relation to the rotor axis.

5.4. Operation modes are controlled by the switch:

- Position I (indication **Spin**) – continuous rotation of the platform;
- Position O (indication **Off**) – idle unit, no rotation;
- Position II (indication **Foot switch**) – platform rotates while the foot switch is pressed, rotation stops when the switch is released.

5.5. Use the **Speed RPM** control knob to adjust the rotation speed to the required setting.

5.6. After finishing the operation, set the rotating speed to a minimum by turning the speed knob counterclockwise to the limit. Turn the **Power** switch to position O/**Off**. Disconnect the external power supply from electric circuit.

6. Specifications

6.1. Biosan is committed to a continuous programme of improvement and reserves the right to alter design and specifications of the equipment without additional notice.

6.2. General specifications

Platform compatibility:

squared Petri dish	max. 125x125 mm
round Petri dish	max. Ø105 mm
adapted platform, on demand	max. Ø 150 mm
Rotation speed	10–300 RPM, linear step
Rotation direction	clockwise
Maximum continuous operation time	168 h
Dimensions (WxDxH):	
with protective shield	200x190x240 mm
without protective shield	170x190x110 mm
Weight, accurate within ±10%	0.85 kg
Input voltage and current	12 V=, 310 mA
Power consumption	3.7 W
External power supply	input 100–240 V~, 50–60 Hz, output 12 V=

6.3. Workroom requirements.

Workroom description	Indoors, cold rooms, incubators (except CO ₂ incubators) and closed laboratory rooms
Temperature range	+4 °C ... +40 °C
Humidity requirements	Maximum of 80% RH at 31 °C, decreasing linearly to 50% RH at 40 °C. Non-condensing atmosphere.
Operating height, maximum	2000 m ASL
Overvoltage category	I
Pollution degree	2

7. Ordering information

7.1. Models and versions available:

Model	Version	Electric plug	Catalogue number
UIS-360, universal inoculation spinner	V.1AW	EU plug (type C/E/F)	BS-010177-A01
		Multi plug, US, UK, EU, AU (type B/C/E/F/G/I)	BS-010177-A02

7.2. To inquire about or order the optional accessories or replacement parts, contact Biosan or your local Biosan representative.

7.2.1. Optional accessory.

Optional accessory	Catalogue number
USB-C to power socket 12V adapter	BS-000001-S27

7.2.2. Replacement parts:

Replacement parts	Catalogue number
Screen	BS-010177-S09
Foot switch FS-1	BS-010177-AK

8. Care and maintenance

8.1. Service.

8.1.1. If the unit is disabled (e.g., no platform motion, no reaction to key presses, etc) or requires maintenance, disconnect the unit from the mains and contact Biosan or your local Biosan representative.

8.1.2. All maintenance and repair operations (except listed below) must be performed only by qualified and specially trained personnel.

8.1.3. Operating integrity check. If the unit follow the procedure described in the section **Operation**, then no additional checks are required.

8.2. Cleaning and disinfection.

8.2.1. Use mild soap and water with a soft cloth or sponge for cleaning the exterior. Rinse remaining washing solution with distilled water. Wipe dry the excess water with clean, soft cloth or sponge.

8.2.2. Clean the suction cup feet regularly to improve their grip on the table surface.

8.2.3. Cleaning the protective shield. Transparent shield is made of acrylic glass (polymethylmethacrylate Altuglas® EX) and are prone to scratches and optical transmission capacity decrease if improperly cleaned. Use mild soap and water with a soft cloth or sponge for cleaning the shield. Rinse remaining washing solution with distilled water. Wipe dry the excess water with clean, soft cloth or sponge.



Caution! Never use organic solvent based compounds, pure alcohol, alcohol-containing cleaners (more than 20%) or ammonia containing cleaners for acrylic glass. Do not use abrasives. The table below shows the interaction of acrylic glass with ethyl alcohol and other solutions.

Solution	Interaction with acrylic glass
Biosan PDS-250	No effect
DNA-Exitus Plus™	No effect
RNase-Exitus Plus™	No effect
Hydrogen peroxide H ₂ O ₂ 6%	No effect
Ethanol C ₂ H ₅ OH ≤ 20%	No effect
Ethanol C ₂ H ₅ OH > 20%	Increasing effect. Do not use.



Note. Crazeing is a normal process for acrylic glass panels exposed to open light. Crazeing will occur over time. Crazeing may occur within the warranty period and is regarded as normal wear and not covered by the warranty

8.2.4. For decontamination, we recommend a special DNA/RNA removing solution (e.g. Biosan **PDS-250**). After washing the surfaces, it is necessary to rub them dry.

8.2.5. The platform mat is autoclavable, 15 min at 121 °C. The unit itself is not autoclavable.

8.3. **Decommissioning.** The user is responsible for decontamination of the equipment before decommissioning. Dispose of the equipment as electronic equipment in accordance with the relevant national legislation.

9. Storage and transportation

- 9.1. Store and transport the unit in a horizontal position (see package label) at ambient temperatures between -20°C and +60°C and maximum relative humidity of 80%.
- 9.2. After transportation or storage and before connecting it to the electric circuit, keep the unit under room temperature for 2-3 hrs.
- 9.3. For extended storage, the unit does not require special procedures.

10. Warranty. Production date.

- 10.1. The Manufacturer guarantees the compliance of the unit with the requirements of Specifications, provided the Customer follows the operation, storage and transportation instructions.
- 10.2. The warranted service life of the unit from the date of its delivery to the Customer is 24 months. For extended warranty, contact your local Biosan representative or our service department through the **Technical support** section on our website at the link below.
- 10.3. Warranty covers only the units transported in the original package.
- 10.4. If any manufacturing defects are discovered by the Customer, an unsatisfactory equipment report shall be compiled, certified and sent to the local distributor address. To obtain the claim form, visit **Technical support** page on our website at link below.
- 10.5. Description of the classes of our products is available in the **Product class description** section on our website at the link below.

Technical support



biosan.lv/en/support

Product class description



biosan.lv/classes-en

- 10.6. The following information will be required in the event that warranty or post-warranty service comes necessary. Complete the table below and retain for your records.

Model	Serial number	Date of sale
UIS-360 , Universal inoculation spinner		

- 10.7. **Production date.** Production date is placed in the serial number, on the label of the unit. Serial number consists of 14 digits styled XXXXXYYMMZZZZ, where XXXXXX is model code, YY and MM – year and month of production, ZZZZ – unit number.

11. EU Declaration of conformity

11.1. Universal inoculation spinner **UIS-360** is in conformity with the following relevant Union legislations:

LVD 2014/35/EU	LVS EN 61010-1:2011 + A1:2019 Safety requirements for electrical equipment for measurement, control, and laboratory use. General requirements.
EMC 2014/30/EU	LVS EN 61326-1:2021 Electrical equipment for measurement, control and laboratory use. EMC requirements. General requirements.
RoHS3 2015/863/EU	Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
WEEE 2012/19/EU	Directive on waste electrical and electronic equipment.

11.2. Declaration of Conformity is available for download on the page for the relevant model on our website by links below, in the **Downloads** section:



UIS-360

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