# LeviCell EOS

## TABLE OF CONTENTS

# SITE REQUIREMENTS

## Loading dock and access

- The LeviCell EOS arrives with the instrument module in a cardboard box on a pallet, with an overall dimension of 1120 mm H x 620 mm W x 950 mm L (44.1” H x 24.4” W x 37.4” L) and a gross weight of approximately 100 kg (220 pounds). This includes two containers:
    - Container 1: LeviCell EOS Module, with the dimensions of 749 mm H x 616 mm W x 946 mm L (29.5” H x 24.25” W x 37.25” L) and a gross weight of approximately 65 kg (143 pounds).
    - Container 2: The Control PC and its accessories, with the dimensions of 371 mm H x 616 mm W x 946 mm L (14.6” H x 24.25” W x 37.25” L) and a gross weight of approximately 35 kg (77 pounds).
- A hand-operated pallet truck is required. Please contact LevitasBio if you require any different delivery arrangements.
- The instrument crate will need to be moved to the lab before the day of installation.
- Verify that all doors are wide enough to admit the crate on the pallet jack.
    - The shortest width of the instrument crate, by itself, will fit through a standard-width door.
- For installation, the instrument weighs about 45.4 kg (100 pounds); this requires
- a 2-person lift from the shipping container onto the bench. This step will be performed by LevitasBio personnel.

**Bench space**: available bench space should be at least:

- 660 mm (26”) deep, 1200 mm (48”) wide.
- A 1520 mm (60”) wide bench is suggested, with 508 mm (20”) vertical space available above the bench.
- Minimum 3” clearance behind the instrument for venting and access to the main power button and approximately 18” clearance on the left side for exchangeable core access if frequent core swaps are anticipated
- For systems with temperature control cores (TEC), the bottom left side will exhaust warm air. Do not place temperature sensitive equipment or samples in this area.
- The air intake for the instrument is on the bottom right side. Ensure that exhaust from other instrumentation is not aligned with this area as warm air can degrade TEC cooling performance.

**Power**: Access to 2 standard power outlets (or an outlet strip, although a direct connection is recommended).

- All standard mains input voltages are accepted (100 - 240 VAC, 50-60 Hz)
- Power drawn is low, so no special circuits are required.
- Grounded outlets are required (3-pin, or CEE 7/3 style)

**Installation and Usage:**

- The system will be installed by LevitasBio personnel. The system box should not be opened prior to installation.
- It is recommended that the unit be placed such that the back power switch (right side of the instrument when viewed from the front) is easily accessible. This controls the mains power of the instrument.
- Do not obstruct access to the mains power supply cable leading into the instrument or the end of the cord at its inlet. It should be removable if power needs to be completely removed for servicing.

### FRONT/SIDE VIEW

Soft Power Button

### REAR/SIDE VIEW

Mains Power Switch

- A soft power button is present on the front panel of the instrument.
- In the case that immediate power shutdown is required, use the rear mains power switch or remove the mains plug.
- The system covers should always remain in place to avoid mechanical hazards to the user.
- When the system is in use, the user must avoid the clamping mechanism WHEN it engages the cartridge to avoid pinch hazards. Handling the cartridge by its grip will avoid the hazard.

## PRE-INSTALLATION QUESTIONNAIRE

| Installation item | Site status |
|---|---|
| Are the required consumables ordered?<br><br>LeviCell EOS Starter Kit<br>or<br>LeviCell EOS Cartridges<br>Levitation Agent<br>LeviCell EOS Installation and Calibration Kit | |
| Is a loading dock access or lift-gate required? | |
| Are there any special delivery requirements? | |
| Are there any other special requests? | |

# LEVICELL EOS SPECIFICATIONS

| Specification | Value |
|---|---|
| Number of sample inputs | 4 |
| Number of output fractions | 8 |
| Levitation magnets | Rare earth permanent magnets |
| Separation flow rate | 300 µL/min |
| Imaging modes | • Brightfield (transmitted illumination)<br>• Two fluorescence channels:<br>• Excitation 470 nm, Emission 501-544 nm (e.g., Calcein, FITC)<br>• Excitation 560 nm, Emission 601-666 nm (e.g., PI) |
| Imaging resolution | Approximately 2 microns |
| **Operational** | |
| Input voltage | • 100 - 240 VAC nominal, universal 50 - 60 Hz<br>• (90 - 264 VAC maximum operating range)<br>• Standard wall receptacle (over-voltage category II) |
| AC supply current drawn | 4A |
| Main enclosure dimensions | 440 W x 630 D x 460 H mm (17.3” W x 24.8” D x 18.1” H) |
| Instrument weight | 45.4 kg (100 pounds) |
| Control PC Operating System | Windows 10 Professional, 64 bit |
| Ingress protection rating | Not rated (no protection claimed) |
| **Environmental** | |
| Operating ambient temperature | 19°C – 25°C |
| Operating relative humidity | 20% RH – 80% RH ambient, non-condensing |
| Pollution degree of the intended environment | Pollution Degree 2 (typical indoor laboratory environment) |
| Altitude | Sea level to 2,000m (6,562 feet) |
| For indoor use only | • Not designed for outdoor use.<br>• Not designed for use in wet locations. |
| Shipping environment | 5 °C to 50 °C, 5% - 99% RH, non-condensing |

## LEGAL



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The information contained in this document is subject to change without notice.

## CONTACT INFORMATION

| | |
|---|---|
| Technical Support Number | +1-650-204-1185 |
| Technical Support Email | support@levitasbio.com |
| Company Website | http://levitasbio.com/ |
| Company Address | LevitasBio<br>1505 Adams Drive, Suite D<br>Menlo Park, CA 94025, USA |