

One Lambda™ HLA PRO Site Preparation Guide

Environmental Requirements

The full configuration of the One Lambda™ HLA PRO requires open floor space which can bear **1,128lbs | 512kg**. Required floor space can be determined from the layout diagrams attached.

System Installed Weights:

- Weight of the base unit includes all the segments and peripheral devices on deck as well as the Power Cabinet the instrument sits on, the Ergotron arm, and the keyboard/mouse/monitor set.
- Weight of the LABScan3D includes instrument, swivel base, deck extension, & Luminex PC. This does not include the Sheath weight of the sheath fluid.
- Centrifuge includes centrifuge dolly & guide.

Base Configuration for NGS Workflow only One Lambda Catalog ID: HLAPROPR	
Weight (~lbs)	Weight (~kgs)
595	270

Configuration for Luminex Workflow One Lambda Catalog IDs: HLAPROAK		
Part	Weight (~lbs)	Weight (~kgs)
LABScan3D*	242	110
HLA PRO Side Bench	112	51
Centrifuge	179	81
Total:	533	242

* LABScan3D & its consumables sold separately

Shipping Weights & Dimensions (L x W x H):

HLA PRO (Cat.# HLAPRO)		
1x Pallet (783lbs 355kg) HLA PRO Base Unit	182cm x 110cm x 152cm	72in x 43in x 60in
1x Pallet (342lbs 155kg) Power Cabinet, Cover Top & Cover Top Extender Long-Z	175cm x 89cm x 125cm	69in x 35in x 49in
1x Pallet (223lbs 101kg) Worktable	120cm x 80cm x 95cm	47in x 32in x 38in
HLA PRO Centrifuge & Side Bench (Cat.# HLAPROAK)		
1x Pallet (188lbs 85kg) Cabinet 340:	125cm x 89cm x 110cm	49in x 35in x 43in
1x Pallet (203lbs 92kg) Side Cabinet Ext. & Cent. Accs.:	120cm x 80cm x 115cm	47in x 32in x 45in
1x Pallet (256lbs 116kg) Centrifuge:	75cm x 66cm x 101cm	30in x 26in x 40in

Electrical Requirements

5 slots needed each of 110-240v, maximum of 20A rating.

Below are the individual requirements.

All cabling for the system comes out of the back right of the HLA PRO. The Luminex LABScan3D cabling comes out of the right side of the instrument.

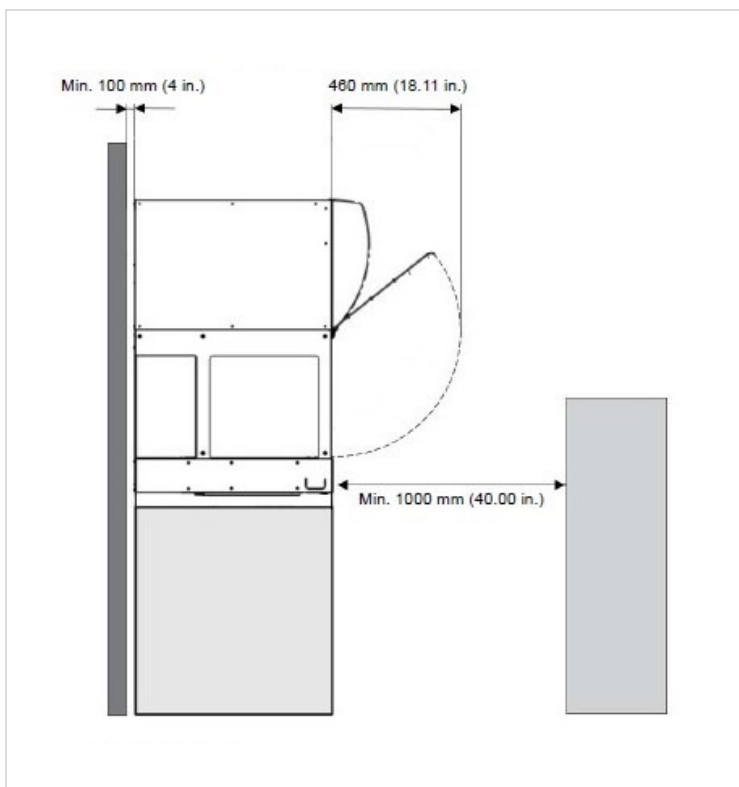
Component	Power (VA)	Voltage (V)	Freq. (Hz)	Plug Type	Plug Length (ft)	Plug Length (cm)
HLA PRO Main module* ^{1,5}	1000	100-240	50-60	Standard	6	183
Centrifuge* ²	750	100-240	50-60	20 Amp	8	244
Luminex LABScan 3D* ⁵	700	100-240	50-60	Standard	6	183
Luminex PC	300	100-240	50-60	Standard	6	183
Monitor* ³	12	100-240	50-60	Standard	25	762

Please Note

1. HLA PRO Main module will include US & EU power cords, all others will need to be sourced separately.
2. Centrifuge power and cable need to be specified for the region on order.
3. Monitor 25ft (762 cm) US power cord will be provided, all others will need to be sourced separately.
4. Qty: 1 UPS backup with 6 slots ***Recommended, Not Included***
 - UPS backup should be specified based on end users' need to run with the appropriate power outage run times.
5. Qty: 2 Ethernet cables min. 6 ft (183 cm) ***Not Included***
 - If not using Luminex LABScan3D, only Qty:1 cable is required.
 - Length of each ethernet cables should be specified based on location of the run.

Additional requirements

- Please consult with local facilities department to confirm the Instrument will fit thru all doors, elevators, hallways leading up to final installation location.
- Operating conditions for liquid handling and pipetting: 20–25°C (68–77°F), 30–60% relative humidity
- Proper airflow of power supply must be guaranteed.
- Instrument should not be placed near strong thermal sources, e.g.: close to HVAC ducting or next to large windows with no sun protection.
- The rear of the instrument will require a minimum clearance of 4" (100mm). The front of the instrument will require a minimum of 40" (1000mm) of clearance for opening front panels and to provide the minimum distance to adjacent objects.



Consumables

**** THE FOLLOWING ITEMS ARE NOT INCLUDED WITH THE STARTER KIT OR THE INSTRUMENT PURCHASE AND WILL NEED TO BE PURCHASED SEPARATELY****

Plastics	Workflow	Qty in Starter Kit	Vendor to Reorder from
DITI LIHA 50µL CONDU. Filtered 2304 PCE. SBS (Mat.# 30057813)	NGS	Not Included on Start Kit	One Lambda
DITI LIHA 200µL CONDU. Filtered 2304 PCE. SBS (Mat.# 30057815)	NGS	Not Included on Start Kit	One Lambda
DITI LIHA 1000µL CONDU. Filtered 2304 PCE. SBS (Mat.# 30057817)	NGS	Not Included on Start Kit	One Lambda
DITI LIHA 350µL COND.NESTED 7680 PCE. SBS (Mat.# 30083400)	Bead-Based	Not Included on Start Kit	One Lambda
DITI LIHA 1000µL CONDU. 2304 PCE. SBS (Mat.# 30057816)	Bead-Based	Not Included on Start Kit	One Lambda
100 ml disposable trough, gray PP 108 PCE. Reagent Trough (Mat.# 10613049)	Bead-Based/NGS	Not Included on Start Kit	One Lambda
100 ml disposable trough, trans. PP 108 PCE. Waste Trough (Mat.# 10613048)	Bead-Based/NGS	Not Included on Start Kit	One Lambda
25ml disposable trough, PP gray 120 PCE. Reagent Trough (Mat.# 30055743)	Bead-Based/NGS	Not Included on Start Kit	One Lambda

Additional Parts lists and Vendor Information for Reordering:

Items included in Starter Kit or Instrument Purchase

Plastics	Workflow	Qty in Starter Kit	Vendor to Reorder from
LIHA DITI SBS BOX REFILL SMALL 10PCE. (Mat.# 30058506)	Bead-Based	1 box	One Lambda
LIHA DITI SBS BOX REFILL LARGE 10PCE. (Mat.# 30058507)	Bead-Based	1 box	One Lambda
AMBER BEAD VIALS 1.5ML (Mat.# T341-4TBR)	Bead-Based	1 bag	Simport
AMBER BEAD VIALS 0.5ML (Mat.# T341-2TBR)	Bead-Based	1 bag	Simport
Amber pre-capped general transport tube with yellow cap (Mat.#S40600)	Bead-Based	50 tubes	Thermo Fisher
Eppendorf™ twin.tec™ PCR Plates 96-well, 150 µL (Mat.# 0030122348)	Bead-Based	1 bag	Eppendorf
Bio-bin® Waste Disposal Containers 30L Floor Pack of 10 (Mat.# 797303-0030)	Bead-Based	1 pack	Dynalabware
Non-Hazardous Disposal Box with Handles Pack of 7 (Mat.# 797055)	Bead-Based/NGS	1 pack	Dynalabware
MAGTube Holder & Centrifuge Counter Weight (Mat.#HLAPROMC)	Bead-Based/NGS	1	One Lambda
Eppendorf Tube® capacity (5.0mL) (Mat# 0030122348)	NGS	1 bag	Eppendorf
DNA LoBind® Tubes, DNA LoBind®, 2.0 MI (Mat# 022431048)	NGS	25 tubes	Fisher Scientific
Armadillo PCR Plate, 96-well, blue, semi-skirted, clear wells	Bead-Based	1 box	Thermo Fisher
Azenta Auto-Sealing PCR Plate Lid 4 (Mat.# TI0291)	NGS	2 seals	Fisher Scientific
NUNC Round Bottom (Mat.#267334)	NGS	12 plates	Thermo Fisher
Armadillo PCR Plate, 96-well, clear, clear wells	NGS	1 box	Thermo Fisher

Accessories (A.V.) – Included with HLA PRO Start Kit

No.	Description
1	200 Series Combo Arm (black) Keyboard & Monitor Mount
2	Logitech MK295 Wireless Mouse & Keyboard Combo with SilentTouch Technology
3	KVM DP Switch 2 in 1 Out, DisplayPort KVM Switcher
4	8K Flat DisplayPort 15 Feet
5	8K Flat DisplayPort 1.5 Feet
6	15ft USB 2.0 A Male to A Male 28/24AWG Cable
7	Cat6 Crossover Ethernet Cable, Red (3 Feet, 0.91 Meters)
8	US Computer Monitor TV Replacement Power Cord, 25', Black
9	Dell Gigabit Ethernet Card
10	Monoprice USB Type-A to USB Type-B 2.0 Cable (15FT)
11	Dell 22 Monitor - E2222H

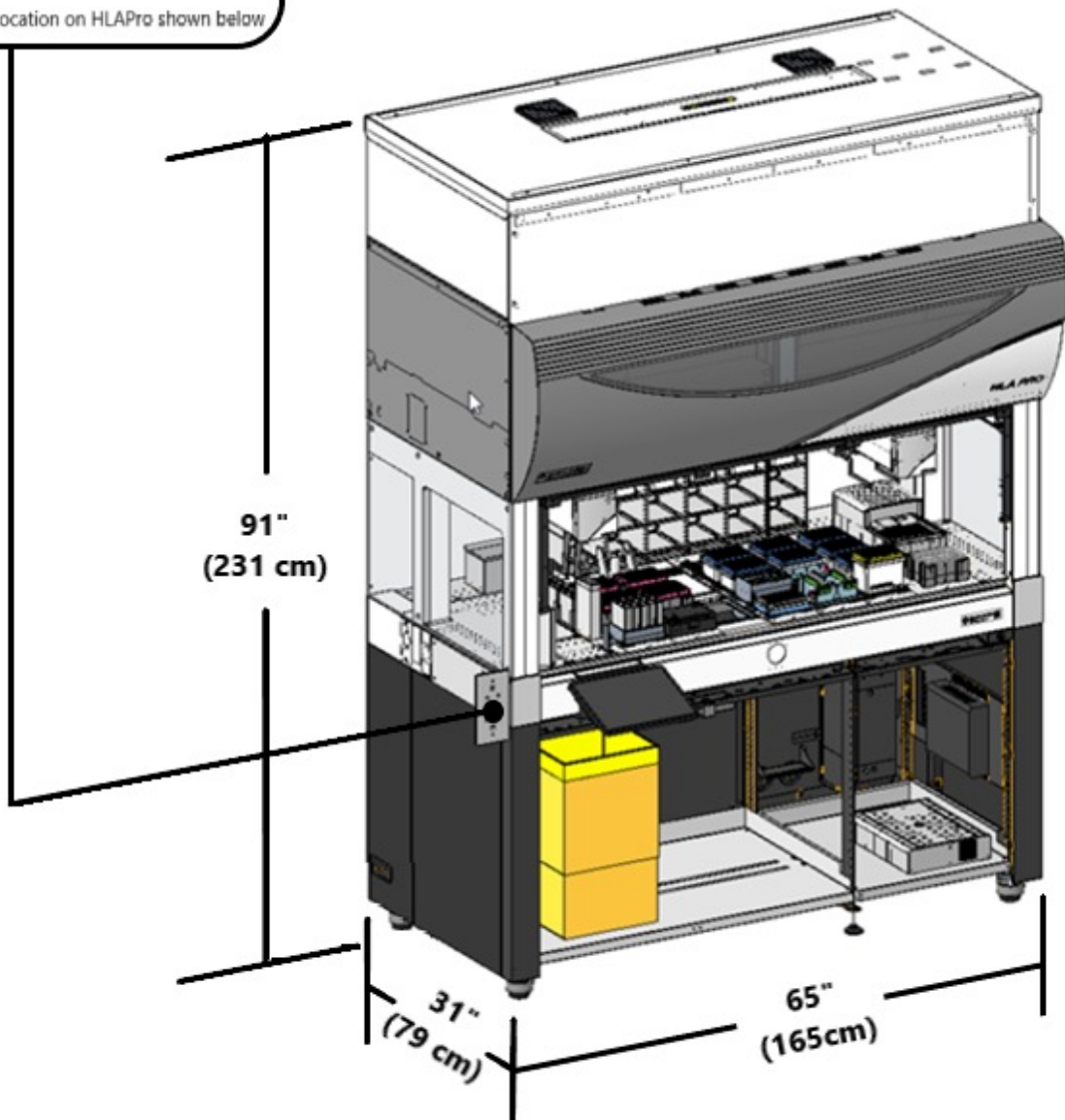
Base Configuration for NGS Workflow only

One Lambda Catalog ID: HLAPRO

Ergotron - 200 Series Combo Arm
telescoping mount for display and keyboard
see www.ergotron.com for more info



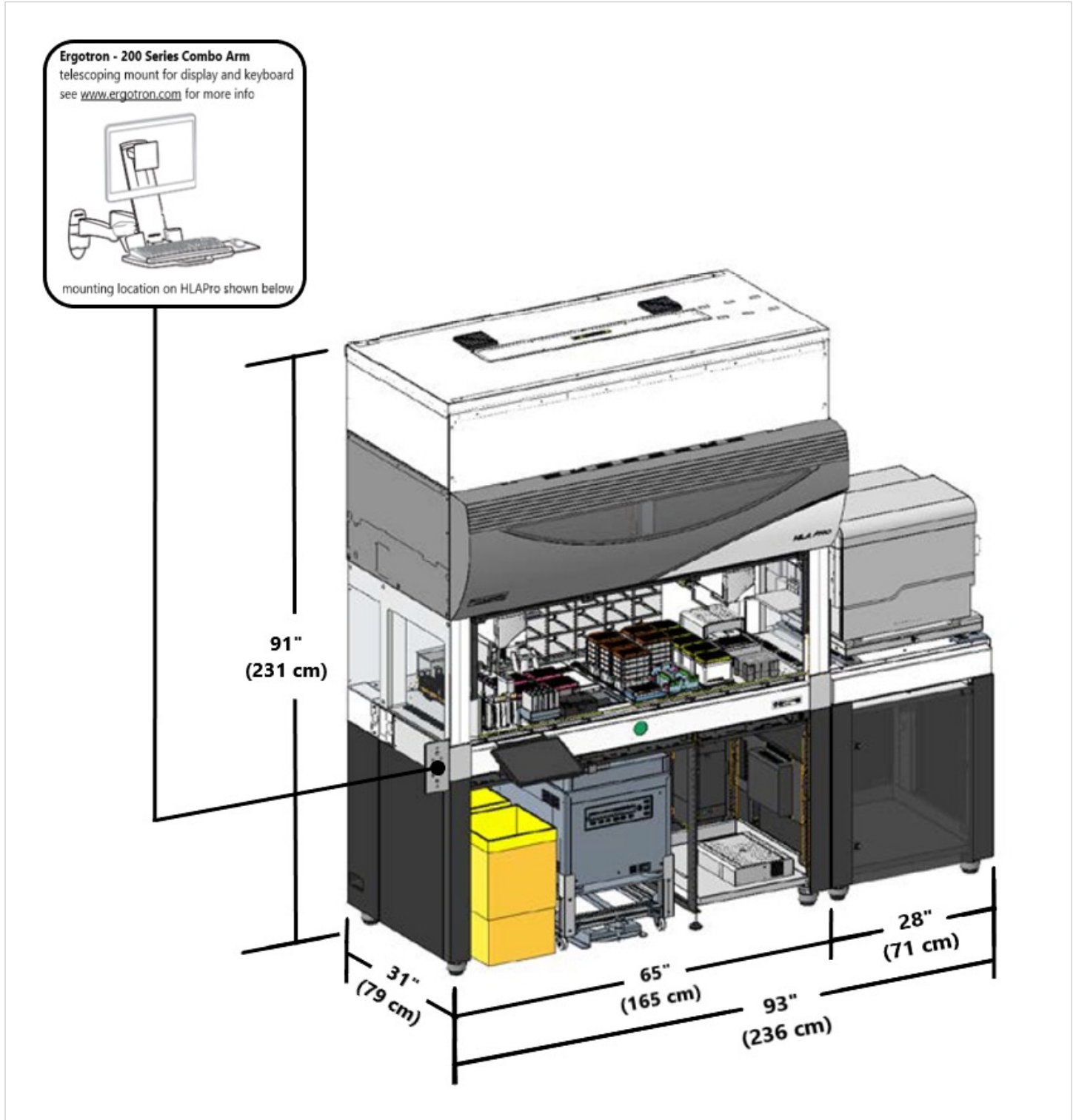
mounting location on HLAPro shown below



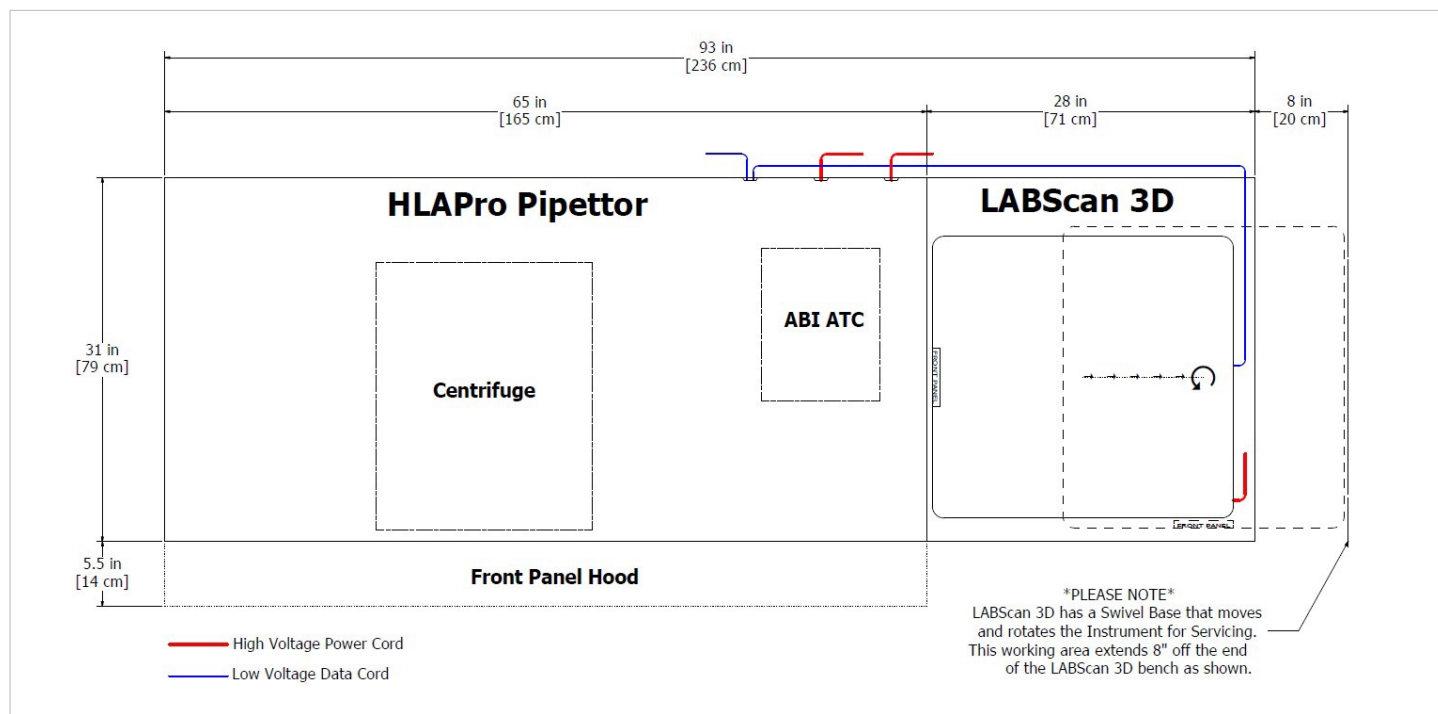
Full Configuration for NGS & Luminex Workflow

One Lambda Catalog IDs: HLAPRO & HLAPROAK

*Note: Image below includes the LABScan3D, sold separately.



Top View: HLA PRO Base Layout with LABScan3D



Note

- PC workstation (monitor, keyboard, mouse, mount), touchscreen and working space for lab tech is not included in the drawing.

HLA PRO Instrument Installation - Customer Questionnaire

Please use this link to complete the contact and laboratory information required for installation

[HLA PRO Installation Form](#)

Any additional questions email us at
1lambda-hlapro@thermofisher.com