

Hyperion Imaging System Site Requirements Quick Reference

POWER	Consumption (W)	Voltage (V AC)	Current A
Helios (with Chiller)	2 x 4500	200/208/220/230/240	2 x 30
Hyperion Imager	200	100–240	<1
Chiller	2500	Powered through instrument	13
Autosampler (optional)	100	100–240	<1
Computer	1050	100–240	8
Monitor		110–230	<1



Helios

DIMENSIONS	Width cm (in)	Height cm (in)	Depth cm (in)	Weight kg (lb)
Shipping crate	107 (42)	143 (56)	158 (62)	462 (1,019)
Components box	107 (42)	105 (41)	125 (49)	170 (375)
Helios	103 (41)	132 (52)	87 (35)	320 (705)
Chiller	38 (15)	64 (25)	67 (27)	81 (178)
Autosampler	39 (16)	24 (10)	36 (14)	20 (44)
Computer	20 (8)	46 (18)	58 (23)	35 (77)
LED monitor	61 (24)			

EXHAUST VENT	Hose Diameter mm (in)	Flow Rate L/sec (cfm)	Anemometer m/sec (ft/min)	Heat Vented out of Lab W (BTU/hr)
Torch box	100 (4)	70 ±10% (150)	9 (1,695)	200 (690)
System	150 (6)	210 ±10% (450)	11.5 (2,250)	2,800 (9,400)

ELECTRICAL SPECIFICATIONS

Operating voltage	200/208/220/230/240 V AC
Peak current (per circuit)	30 A
Operating frequency	50 or 60 Hz ±1 Hz
Max allowable sag	5%
Max allowable swell	5%
Max supply voltage total distortion	5%
Max supply voltage distortion by single harmonics	3%
Phase (single or three)	Single/between 2 of the 3 phases
Plug type: North America (60 Hz connections)	NEMA L6-30R (250 V, 30 A)
Plug type: EU (50 Hz connections)	IP44 2P+E 32A

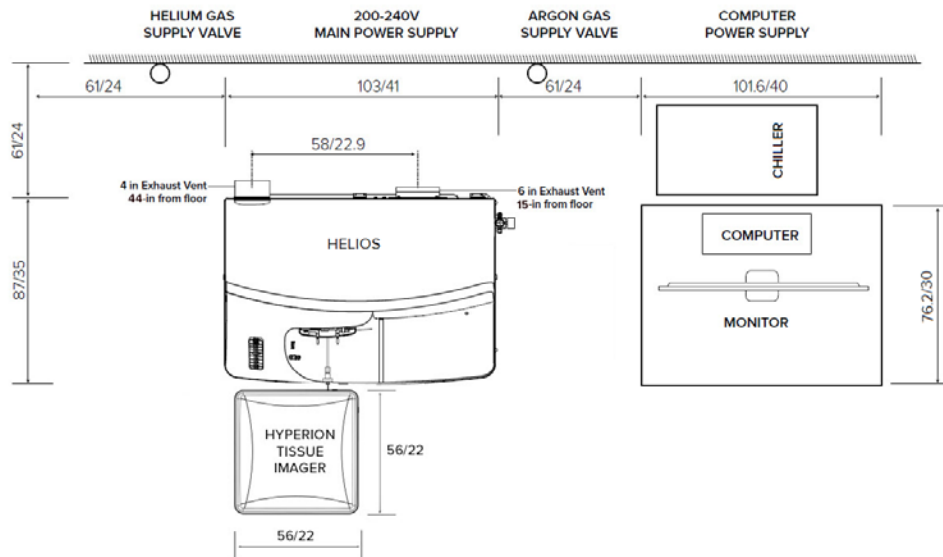
Hyperion Tissue Imager

DIMENSIONS	Width cm (in)	Height cm (in)	Depth cm (in)	Weight kg (lb)
Shipping crate	61 (24)	173 (68)	122 (48)	296 (653)
Hyperion Tissue Imager	56 (22)	134 (53)	56 (22)	159 (350)

OPERATING SPECIFICATIONS	
Recommended Operating Temperature	18–25 °C
Optimal Temperature	21 °C ± 1 °C
Humidity	10–85 %
Vibration Environment	VC-A
Energy Output	1 μJ
Optimal Repetition rate	100Hz

GAS	Purity	Pressure (psi)	Flow Rate (L/min)
Argon	≥99.996%	85 ±5	20.5
Impurities (ppm)			
Oxygen <5,	Nitrogen <20,	Hydrogen <1,	Water <4
Helium	≥99.999%	30 ±5	0.25
(5.0)			
Impurities (ppm)			
Oxygen <0.1,	Nitrogen <0.4,	Hydrogen <0.5,	Water <0.2

Hyperion Imaging System and Accessories: Footprint Diagram



Dimensions Units in cm/inches

NOTE

- Use an argon regulator with a pressure range of 0–100 psi and a ¼ inch Swagelok® tube adapter.
- The helium regulator must be capable of handling 1 SLPM constant flow, providing a pressure range of 0–50 psi and a ¼ inch Swagelok® tube adapter. A dual stage model regulator is recommended for more constant pressure.
- The Helios instrument causes a static pressure drop of 1.2 inches H₂O (200 Pa).
- Do not use an electronic pressure regulator or auto-switching valves because they may affect plasma stability and cause plasma loss.

For more details refer to the Hyperion Tissue Imager Site Requirements Guide (PN 400300) and the Helios Site Requirements Guide (PN 400252).

For technical support visit fluidigm.com/support.

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