Digital Lab Syringe Pump dLSP 500 Series





Ethernet and wireless (Wifi/bluetooth) communication, dedicated PC software and Android app, permit remote control and monitoring

■ To know the working progress and pump status in real time through intelligent diagnosis and voice reminder

■ High precision and stable fluid delivery with good EMC performance, ideal for microfluidic and electrospinning application

7 inch full touchscreen with intuitive graphic interface for fantastic interactive experience

■ Custom parameters can be configured quickly, and the parameter methods can be stored and easily recalled

■ User access control and log record for safety management. With the electronic signature function, Pro pump can meet FDA(21CFR Part 11) audit trail requirements

		dLSP 510	dLSP 520	dLSP 510 Pro	dLSP 520 Pro
Work mode		Infusion only, withdrawal only, i	nfusion/withdrawal, withdrawa	l/infusion, auto repeated, progra	mming (on dedicated PC software)
Number of channel		1	2	1	2
Pusher advance per microstep		0.03255µm/µstep		0.015625µm/µstep	
Linear speed		0.0833µm/min-180mm/min 0.04µm/min-86.4mm/min			
Step speed		23.4375 sec/µstep-10.85 µsec/µstep			
Linear travel accuracy (Rated)		±0.5% ±0.35%			
Linear travel CV(Rated)		±0.05%			
Linear force (Rated)		40lbs/18kg @ 100% force selection			
Motor and drive		1.8° step motor with 1/64 microstepping			
Syringe		0.5uL-60mL	0.5uL-30mL	0.5uL-60mL	0.5uL-30mL
User-defined syringe		Travel≤108mm,OD≤31.5mm	Travel≤108mm, OD≤26mm	Travel≤108mm,OD≤31.5mm	Travel≤108mm,OD≤26mm
Display		7 Inch, 1024x600, IPS HD LCD			
Language		Chinese or English, set as needed			
Control mode		Touch screen control, dedicated PC or Android App control, footswitch control, RS485 communication control			
Interface		RS485(optional), USB-B,USB-A,Wifi, bluetooth, Ethernet, footswitch			
		3 outputs- solid state relay signal, 2 inputs-switch signal or TTL signal, 4-20mA signal(optional)			
Wireless connectivity(optional)		Wifi, bluetooth			
Programming function		Parameter configured based on work flow: constant, ramp, loop, delay, repeat, I/O output trigger, I/O			
		event input trigger, tooch screen trigger			
Calibration		Improve flow rate/ dispensing volume precision and accuracy			
Parameter method		Parameter methods can be stored and easily recalled			
Real time clock		Date and time can be set			
Audible alarm		For keypad clicks, end of run, near end of run, power on, motor stall, calibration reminder, etc.			
Voice reminder		N/A For working progress, alarm, diagnosis			
Intelligent diagnosis		N/A For presence of syringes, syringe leakage			
Screen lock		To prevent misoperation			
User access control		Three levels of user accesses (administrator, developer, operator), in line with safety management requirement (21CFR Part 11)			
Predictive maintenance		Real-time monitoring of pump running status providing information such as a larms, regular maintenance, predictive maintenance			
Log record		Record the complete operation history of the pump, and can be exported directly			
Electronic signature and audit trail		N/A Meet the requirement of 21CFR Part 11 (on dedicated PC software)			
Support 3Q(IQ/OQ/PQ)		Meet GMP requirement			
EMC		CE (TUV) certified			
Deminsion(L \times W \times H)		Drive unit: 260mm×185mm×180mm, Controller: 190mm×123mm×33mm			
Power supply		AC 100V-240V/30W 50/60Hz AC 100V-240V/20W 50/60Hz			
Operating condition		Temperature: 5°C-40°C, Relative humidity<85%			
IP rating		IP31			
Weight		Drive unit: 3.49kg, Controller: 0.37kg			
Product Model		dLSP 510/	dLSP 520	dLSP 510 Pr	o/dLSP 520 Pro
Syringe	Syringe ID (mm)	· · ·	Reference flow rate		•
0.5ul	0.1	0.0007-0			-0.0007
5ul	0.35	0.008-0			-0.008
10ul	0.5	0.016-0			-0.017
25ul	0.8	0.042-0			-0.043
50ul	1.1	0.079-0			-0.082
100ul	1.6	0.167-0			-0.174
500ul	3.25	0.691-1			-0.717
1ml	4.72	1.458-3			-1.512
2ml	9	5.299-1			-5.497
5ml	13.1	11.227-2			11.645
10ml	16.6	11.227-2			18.699
20ml 30ml	19 23	23.618-5			-24.497
		34.609-7			-35.897
60ml (510 series	s) 29.14	55.554-12	20.044	20.077	-57.621



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* Please determine the product material according to fluid media and environment.