



# IPS-14RS Syringe Pump

Independent Dual Channel Infusion/Withdrawal Pump with Recipe Management

The IPS-14RS combines bidirectional flow and recipe management across two completely independent channels. Users can save up to 5 recipes and run up to 50 repeat cycles automatically. It is the most advanced and versatile model in the IPS-14 series.

<b>SYRINGES</b>	
CAPACITY	2 Independent
TYPE	Glass, plastic, steel
MIN SIZE	Hamilton 0.5 µl (ID:0.103mm)
MAX SIZE	Monoject 140 ml (ID:38mm)
<b>FLOW RATE</b>	
MIN	17.89 pl/min (Hamilton 0.5 µl)
MAX	121.51 ml/min (140 ml Monoject Syringe)
ACCURACY	< 3%
REPRODUCIBILITY	< 3%
<b>MOTOR SPECIFICATIONS</b>	
MOTOR TYPE	Stepper Motor
MOTOR DRIVE CONTROLLER	Microcontroller with Microstep Drive
STEP RESOLUTION (TRAVEL/MICROSTEP)	357 nm/µstep
MIN STEP RATE	10 sec/µstep
MAX STEP RATE	200 µsec/µstep
MIN LINEAR SPEED	2.14 µm/min
MAX LINEAR SPEED	107.14 mm/min
LINEAR FORCE	20 kg for each syringe (44 lbs)
<b>GENERAL SPECIFICATIONS</b>	
RECIPE SAVE-RECALL	Yes
POWER SUPPLY	12 VDC 1A (110-240 VAC adapter included)
DIMENSIONS	W:211 L:257 H:137 mm
WEIGHT	3.6 kg (8 lbs)
<b>OPERATING CONDITIONS</b>	
OPERATING TEMPERATURE	-10 to 50 °C
STORAGE TEMPERATURE	-30 to 85 °C
OPERATING HUMIDITY	RH 10% - RH 90% (non-condensed)
STORAGE HUMIDITY	RH 10% - RH 90% (non-condensed)

- **4.3" interactive touch display**
- **Independent bidirectional control with recipe management**
- **Supports 5 recipes and 50 repeat cycles for each channel**