IPS SERIES

PRODUCT CATALOG

IPS-SERIES
SYRINGE PUMP
SYSTEMS

2024

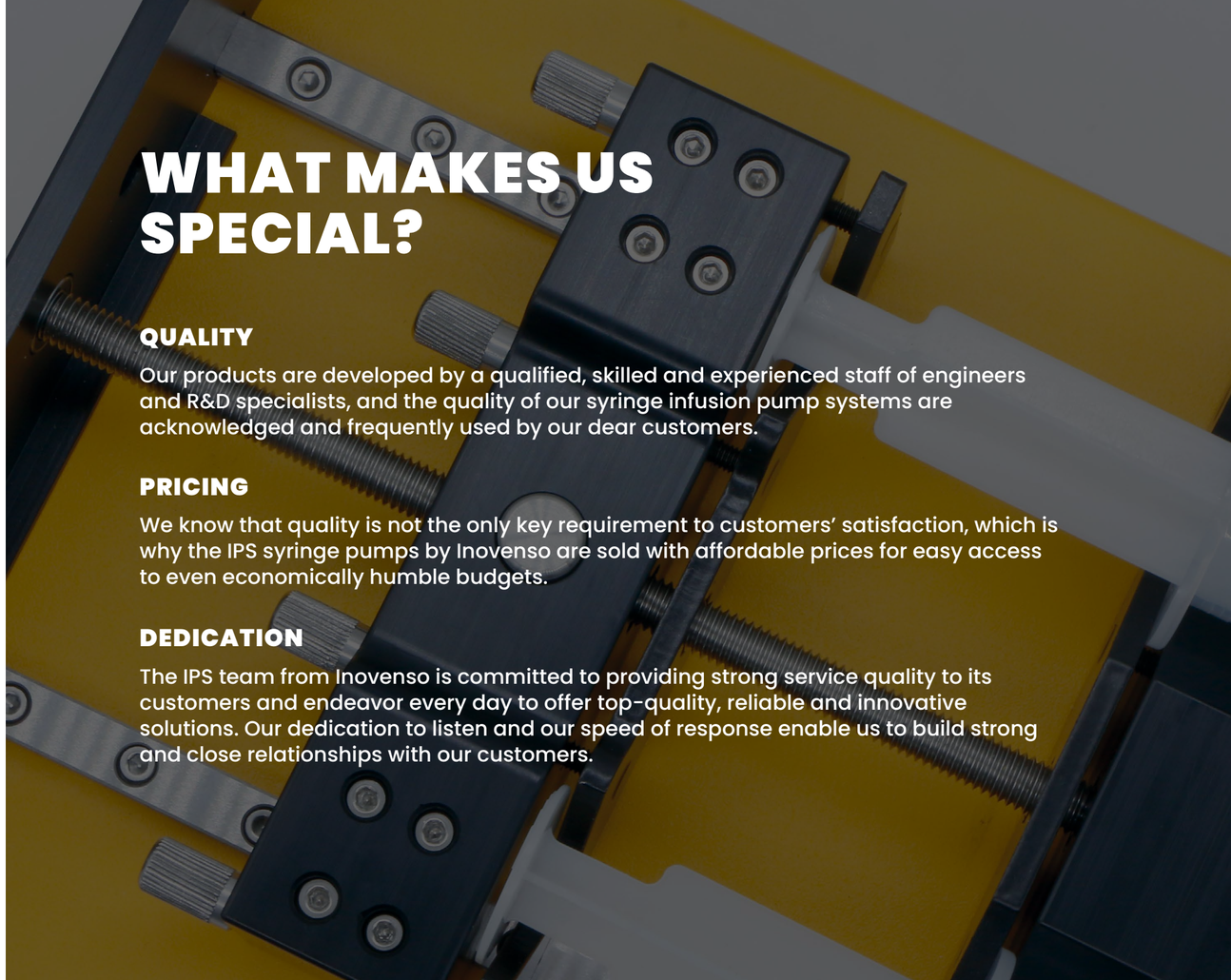
About INOVENSO

Inovenso Co. Ltd. Is a supplier of laboratory equipment since 2010, our aim is to become a bridge company between academia and industry.

Inovenso has gained an exponentially larger market share in the international market of many lab equipment. In 2017 Inovenso opened its branch **Inovenso Inc.** in Boston, MA, as a second operation sales/demo office and laboratory to provide products and services to North American clients, and in 2019 Inovenso opened its branch Inovenso Korea in Incheon, **South Korea.**

Our team is proud to have made significant contributions to hundreds of scientific projects in collaboration with prestigious organizations. These projects encompass a wide range of applications, such as biomedical research, tissue engineering, pharmaceuticals, energy, filtration, materials science, textiles, agriculture, cosmetics, and other areas of study.

For more info visit: www.microsyringepump.com



WHAT MAKES US SPECIAL?

QUALITY

Our products are developed by a qualified, skilled and experienced staff of engineers and R&D specialists, and the quality of our syringe infusion pump systems are acknowledged and frequently used by our dear customers.

PRICING

We know that quality is not the only key requirement to customers' satisfaction, which is why the IPS syringe pumps by Inovenso are sold with affordable prices for easy access to even economically humble budgets.

DEDICATION

The IPS team from Inovenso is committed to providing strong service quality to its customers and endeavor every day to offer top-quality, reliable and innovative solutions. Our dedication to listen and our speed of response enable us to build strong and close relationships with our customers.

Application **Areas**

The greatest benefit of laboratory syringe pumps (also known as syringe drivers), is that they can be used in nearly every application that involves infusion of specific fluid amounts at a consistent rate.

Particularly in the microscale and the nanoscale. These intricate devices are prominently utilized in many chemical and biomedical research areas.

Electrospinning / Electrospraying

Electrospinning and Electrospraying are examples where syringe pumps are used to infuse the chemical solution into a high voltage setup. In most electrospinning laboratory set-ups, the syringe pump is installed to feed the sample solution through an insulating tube. The polymer solution in the tube is extruded towards the collector as it exudes out of the orifice of a charged needle using a high voltage power supply (DC).

General Chemistry

General Chemistry experiments require dispensing chemical solutions in strict amounts. Laboratories utilize efficient syringe pumps for various experiments. In standard experimental trials, a parameter like flow-rate bears importance. Which is why chemists use varying ranges of solution feeding rate.

Chromatography

Chromatography is a common laboratory practice for separating a mixture of liquids into individual components. Liquid chromatography (LC) requires a robust pump system for the infusion of solutions.

Mass Spectrometry

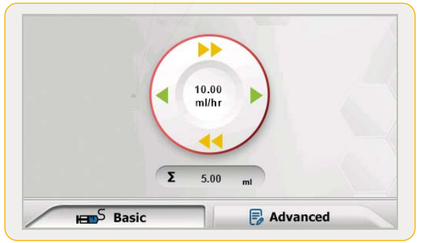
Mass Spectrometry is used in analytical chemistry for determining the composition of an unknown sample. Materials of interest are ionized and broken down to fragments.

Micro-dialysis

The laboratory syringe pump also facilitates the administration of fluids/blood products to very small animals as the traditional means can risk the overdose of fluids to smaller animals.

Others...

USER-FRIENDLY INTERFACE



A user-friendly interface smartly designed to make the user's operations easier.

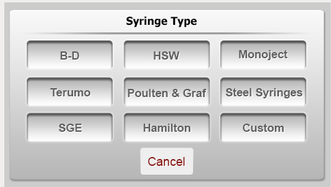
Saving and **Recalling**
Subsequently Up to **5 Recipes**

The recipe recall function enables users to save the parameters and recall them instantly.

5 Steps Operation Mode &
Repeating recipes up to **50 Cycles**

The system operates in five distinct stages or steps. It is capable of repeating a recipe up to 50 times to achieve consistent results in a specific process.

Choosing the Right Syringe Type



To ensure precise liquid delivery, it's important to choose the right syringe based on factors such as intended use, volume, and measurement accuracy.

IPS 12 SERIES

Programmable
Single Channel
Pumps

I 12 IPS ›

IPS 12

infusion
mode

SYRINGES	
CAPACITY	1
TYPE	Glass, plastic, steel
MIN SIZE	Hamilton 0.5 µl (ID:0.103mm)
MAX SIZE	Monoject 140 ml (ID:38mm)
FLOW RATE	
MIN	17,89 pl/min (Hamilton 0.5 µl)
MAX	121,51 ml/min (140 ml Monoject Syringe)
MOTOR TYPE	Stepper Motor
MOTOR DRIVE CONTROLLER	Microcontroller with Microstep Drive
STEP RESOLUTION (TRAVEL/MICROSTEP)	357 nm/µstep
STEP RATE	
MIN	10 sec/µstep
MAX	200 µsec/µstep
LINEAR SPEED RATE (PUSHER TRAVEL RATE)	
MIN	2,14 µm/min
MAX	107,14 µm/min
LINEAR FORCE	20 kg
CONNECTORS	Wi-fi(optional)
RECIPE SAVE-RECALL	No
POWER SUPPLY	12 VDC 1A (110-240 VAC adapter included)
DIMENSIONS	W:200 L:170 H:137 mm
WEIGHT	2.1 kg
ENVIRONMENTAL SPECIFICATIONS	
OPERATING TEMPERATURE	Between -10 and 50 (°C)
STORAGE TEMPERATURE	Between -30 and 85 (°C)
OPERATING HUMIDITY	RH 10% - RH 90% (not condensed)
STORAGE HUMIDITY	RH 10% - RH 90% (not condensed)

- 4.3” Resistive Touch TFT LCD screen
- Microcontroller software
- User-friendly interface
- High precise pumping
- Adjustable flow rate even during process

IPS 12 R

infusion / withdrawal mode

SYRINGES	
CAPACITY	1
TYPE	Glass, plastic, steel
MIN SIZE	Hamilton 0.5 µl (ID:0.103mm)
MAX SIZE	Monoject 140 ml (ID:38mm)
FLOW RATE	
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MIN	2,14 µm/min
MAX	107,14 µm/min
LINEAR FORCE	20 kg
CONNECTORS	Wi-fi(optional)
RECIPE SAVE-RECALL	No
POWER SUPPLY	12 VDC 1A (110-240 VAC adapter included)
DIMENSIONS	W:200 L:170 H:137 mm
WEIGHT	2.2 kg
ENVIRONMENTAL SPECIFICATIONS	
OPERATING TEMPERATURE	Between -10 and 50 (°C)
STORAGE TEMPERATURE	Between -30 and 85 (°C)
OPERATING HUMIDITY	RH 10% - RH 90% (not condensed)
STORAGE HUMIDITY	RH 10% - RH 90% (not condensed)

- 4.3” Resistive Touch TFT LCD screen
- Microcontroller software
- User-friendly interface
- High precise pumping
- Adjustable flow rate even during process

IPS 12 S

infusion mode

SYRINGES	
CAPACITY	1
TYPE	Glass, plastic, steel
MIN SIZE	Hamilton 0.5 µl (ID:0.103mm)
MAX SIZE	Monoject 140 ml (ID:38mm)
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- 4.3” Resistive Touch TFT LCD screen
- Microcontroller software
- User-friendly interface
- High precise pumping
- Adjustable flow rate even during process

5 Steps Operation Mode | **Saving** and **Recalling** Subsequently Up to **5 Recipes** | Repeating recipes up to **50 Cycles**

IPS 12 RS

infusion / withdrawal mode

SYRINGES	
CAPACITY	1
TYPE	Glass, plastic, steel
MIN SIZE	Hamilton 0.5 µl (ID:0.103mm)
MAX SIZE	Monoject 140 ml (ID:38mm)
FLOW RATE	
MIN	17,89 pl/min (Hamilton 0.5 µl)
MAX	121,51 ml/min (140 ml Monoject Syringe)
MOTOR TYPE	Stepper Motor
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MIN	10 sec/µstep
MAX	200 µsec/µstep
LINEAR SPEED RATE (PUSHER TRAVEL RATE)	
MIN	2,14 µm/min
MAX	107,14 µm/min
LINEAR FORCE	20 kg
CONNECTORS	Wi-fi(optional)
RECIPE SAVE-RECALL	Yes
POWER SUPPLY	12 VDC 1A (110-240 VAC adapter included)
DIMENSIONS	W:211 L:170 H:137 mm
WEIGHT	2.2 kg
ENVIRONMENTAL SPECIFICATIONS	
OPERATING TEMPERATURE	Between -10 and 50 (°C)
STORAGE TEMPERATURE	Between -30 and 85 (°C)
OPERATING HUMIDITY	RH 10% - RH 90% (not condensed)
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- 4.3” Resistive Touch TFT LCD screen
- Microcontroller software
- User-friendly interface
- High precise pumping
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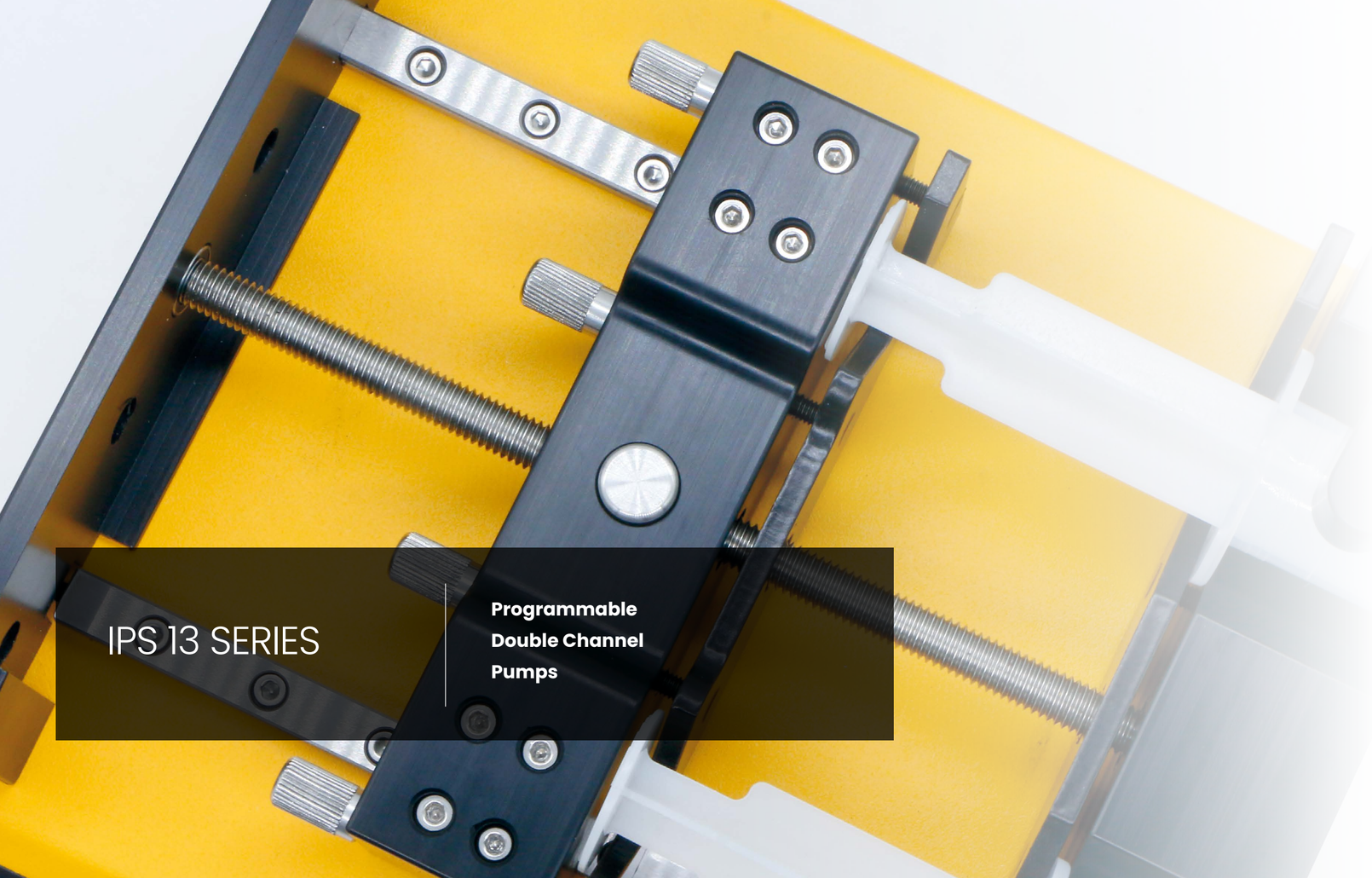
5 Steps Operation Mode | **Saving** and **Recalling** Subsequently Up to **5 Recipes** | Repeating recipes up to **50 Cycles**



IPS 13 SERIES

Programmable
Double Channel
Pumps

13 IPS

IPS 13

infusion mode

SYRINGES	
CAPACITY	2 Interdependent
TYPE	Glass, plastic, steel
MIN SIZE	Hamilton 0.5 µl (ID:0.103mm)
MAX SIZE	Monoject 140 ml (ID:38mm)
FLOW RATE	
MIN	17,89 pl/min (Hamilton 0.5 µl)
MAX	121,51 ml/min (140 ml Monoject Syringe)
MOTOR TYPE	Stepper Motor
MOTOR DRIVE CONTROLLER	Microcontroller with Microstep Drive
STEP RESOLUTION (TRAVEL/MICROSTEP)	357 nm/µstep
STEP RATE	
MIN	10 sec/µstep
MAX	200 µsec/µstep
LINEAR SPEED RATE (PUSHER TRAVEL RATE)	
MIN	2,14 µm/min
MAX	107,14 µm/min
LINEAR FORCE	20 kg (each syringe: 15 kg)
CONNECTORS	Wi-fi(optional)
RECIPE SAVE-RECALL	No
POWER SUPPLY	12 VDC 1A (110-240 VAC adapter included)
DIMENSIONS	W:200 L:250 H:143 mm
WEIGHT	2.9 kg
ENVIRONMENTAL SPECIFICATIONS	
OPERATING TEMPERATURE	Between -10 and 50 (°C)
STORAGE TEMPERATURE	Between -30 and 85 (°C)
OPERATING HUMIDITY	RH 10% - RH 90% (not condensed)
STORAGE HUMIDITY	RH 10% - RH 90% (not condensed)

- Double Channel
- 4.3” Resistive Touch TFT LCD screen
- Microcontroller software
- User-friendly interface
- High precise pumping
- Adjustable flow rate even during process

IPS 13 R

infusion/withdrawal mode

SYRINGES	
CAPACITY	2 Interdependent
TYPE	Glass, plastic, steel
MIN SIZE	Hamilton 0.5 µl (ID:0.103mm)
MAX SIZE	Monoject 140 ml (ID:38mm)
FLOW RATE	
MIN	17,89 pl/min (Hamilton 0.5 µl)
MAX	121,51 ml/min (140 ml Monoject Syringe)
MOTOR TYPE	Stepper Motor
MOTOR DRIVE CONTROLLER	Microcontroller with Microstep Drive
STEP RESOLUTION (TRAVEL/MICROSTEP)	357 nm/µstep
STEP RATE	
MIN	10 sec/µstep
MAX	200 µsec/µstep
LINEAR SPEED RATE (PUSHER TRAVEL RATE)	
MIN	2,14 µm/min
MAX	107,14 µm/min
LINEAR FORCE	20 kg (each syringe: 15 kg)
CONNECTORS	Wi-fi(optional)
RECIPE SAVE-RECALL	No
POWER SUPPLY	12 VDC 1A (110-240 VAC adapter included)
DIMENSIONS	W:211 L:250 H:143 mm
WEIGHT	3.2 kg
ENVIRONMENTAL SPECIFICATIONS	
OPERATING TEMPERATURE	Between -10 and 50 (°C)
STORAGE TEMPERATURE	Between -30 and 85 (°C)
OPERATING HUMIDITY	RH 10% - RH 90% (not condensed)
STORAGE HUMIDITY	RH 10% - RH 90% (not condensed)

- Double Channel
- 4.3” Resistive Touch TFT LCD screen
- Microcontroller software
- User-friendly interface
- High precise pumping
- Adjustable flow rate even during process

IPS 13 S

infusion mode

SYRINGES	
CAPACITY	2 Interdependent
TYPE	Glass, plastic, steel
MIN SIZE	Hamilton 0.5 µl (ID:0.103mm)
MAX SIZE	Monoject 140 ml (ID:38mm)
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- Double Channel
- 4.3” Resistive Touch TFT LCD screen
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- User-friendly interface
- High precise pumping
- Adjustable flow rate even during process

5 Steps Operation Mode | **Saving** and **Recalling** Subsequently Up to **5 Recipes** | Repeating recipes up to **50 Cycles**

IPS 13 RS

infusion/withdrawal mode

SYRINGES	
CAPACITY	2 Interdependent
TYPE	Glass, plastic, steel
MIN SIZE	Hamilton 0.5 µl (ID:0.103mm)
MAX SIZE	Monoject 140 ml (ID:38mm)
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- Double Channel
- 4.3” Resistive Touch TFT LCD screen
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- Adjustable flow rate even during process

5 Steps Operation Mode | **Saving** and **Recalling** Subsequently Up to **5 Recipes** | Repeating recipes up to **50 Cycles**

IPS 14 SERIES

Independent
Double Channel
Pumps

14 IPS

IPS 14
infusion mode

SYRINGES	
CAPACITY	2 Independent
TYPE	Glass, plastic, steel
MIN SIZE	Hamilton 0.5 µl (ID:0.103mm)
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MIN	2,14 µm/min
MAX	107,14 µm/min
LINEAR FORCE	20 kg for each syringe
CONNECTORS	Wi-fi(optional)
RECIPE SAVE-RECALL	No
POWER SUPPLY	12 VDC 1A (110-240 VAC adapter included)
DIMENSIONS	W:200 L:257 H:137 mm
WEIGHT	3.3 kg
ENVIRONMENTAL SPECIFICATIONS	
OPERATING TEMPERATURE	Between -10 and 50 (°C)
STORAGE TEMPERATURE	Between -30 and 85 (°C)
OPERATING HUMIDITY	RH 10% - RH 90% (not condensed)
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- 2 Independent channels
- 4.3” Resistive Touch TFT LCD screen
- Microcontroller software
- User-friendly interface
- High precise pumping
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IPS 14 R

infusion/withdrawal mode

SYRINGES	
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MAX SIZE	Monoject 140 ml (ID:38mm)
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LINEAR FORCE	20 kg for each syringe
CONNECTORS	Wi-fi(optional)
RECIPE SAVE-RECALL	No
POWER SUPPLY	12 VDC 1A (110-240 VAC adapter included)
DIMENSIONS	W:211 L:257 H:137 mm
WEIGHT	3.6 kg
ENVIRONMENTAL SPECIFICATIONS	
OPERATING TEMPERATURE	Between -10 and 50 (°C)
STORAGE TEMPERATURE	Between -30 and 85 (°C)
OPERATING HUMIDITY	RH 10% - RH 90% (not condensed)
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IPS 14 S

infusion mode

SYRINGES	
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5 Steps Operation Mode | **Saving** and **Recalling** Subsequently Up to **5 Recipes** | Repeating recipes up to **50 Cycles**

IPS 14 RS

infusion/withdrawal mode

SYRINGES	
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5 Steps Operation Mode | **Saving** and **Recalling** Subsequently Up to **5 Recipes** | Repeating recipes up to **50 Cycles**


Excellent
linearity.
Excellent
precision.

PRODUCT CATALOG

IPS-SERIES SYRINGE PUMP SYSTEMS

Contact us

UNITED STATES

Inovenso Inc.
46 Concord Ln,
Cambridge, MA 02138,
USA
usa@inovenso.com

TURKEY

Inovenso Ltd.
IOSB, Yıldız Teknopark, No:2B/02
Başakşehir/Istanbul
TURKEY
sales@inovenso.com

SOUTH KOREA

Inovenso Korea
Songdo Smart Valley.
E-1009-3, 30, Songdomirae-Ro,
Yeonsu-Gu, Incheon 406-840, SOUTH
KOREA
sales@inovenso.co.kr