

PRODUCT CATALOGUE

Make infusion smarter and safer



Company Profile

Established in 2010, Medcaptain Medical Technology Co., Ltd. is a high-tech enterprise, founded by a group of highly experienced medical devices professionals. Many of us have worked in NYSE listed medical devices company before and we have in-depth knowledge of R&D, Operation Management, Sales and Marketing etc. Joined hand with professors and doctors from renowned universities and their affiliated hospitals, we vow to build up Medcaptain a high end brand in medical devices industry.

Bared "Make infusion smarter and safer" philosophy in mind, Medcaptain works with overseas and domestic experts on research and development. After more than 3 years of hard working on R&D and clinical verifications, we proud to release to the market, our first serial of product solution: the high-end infusion pumps and consumables integration solutions. This solution covers infusion workstations, infusion central monitoring systems, syringe pumps, infusion pumps, disposable syringes, IV sets and infusion lines.

"Smart, Safe, Effective, Reliable" are our product design concept which can be found in every details of our products. We work closely with clinical experienced users, to understand their daily operations. We utilized the latest innovation technologies into our products to meet the clinical need.

"Top Quality" is the high standard Medcaptain always chases. Medcaptain's products have been made strictly follow ISO13485 and CE requirements and extremely followed Europe, US and China regulations.

"Innovations" is the engine of our development and growth. Up till now, more than 30 patents are under applications process and will be authorized soon. We are also applying for High-Tech Enterprise status.

In the near future, Medcaptain will work even closer with top experts in the field to provide more creative solutions for the areas of ICU, emergency, anesthesia, etc. and to build a better healthcare for human being.

MP-80

INFUSION WORKSTATION

The MP-80 Infusion Workstation can be modularly combined into multi-channel syringe pumps, multi-channel infusion pumps, and multi-channel infusion/syringe mixing pumps based on clinical demands. Cascaded infusion is supported between infusion and syringe pumps, meeting venoclysis demands of patients.



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Features

- Multi-channel combination:
Up to five composite boxes are available and 15-channel infusion/syringe pumps can be combined.
- Cascaded infusion:
Cascaded infusion is supported between infusion/syringe pumps.
- Building block-based combination:
Multi-channel infusion/syringe pumps can be combined easily, without using any tool.
- Infusion pipe organization:
This function makes multi-channel infusion/syringe pipes clear and neat.
- Intercom function: This function supports voice calls between patients and nurses.



MP-60

INFUSION PUMP

Supports all infusion sets in compliance with international standards. Automatic infusion accuracy adjustment. Multiple infusion modes. With Infusion Workstation can operate in cascade connection infusion. Wi-Fi data transmission functions with Infusion Central Monitoring System (ICMS). Multiple Powers: AC power supply, DC power supply, and built-in battery.



Motorized Door

Touch Button

Multi-channel



Features And Functions:

◆ Accurate infusion

The MP-60 infusion pump adopts a compact peristaltic pump structure that realizes the correct cooperation between parts and enables the peristaltic tablet to move more stably and smoothly, which is different from the traditional loose structure. The emulated pipe guiding device avoids pipe bending and deflection. The infusion control algorithm bases on lots of scientific studies and experiments of engineers. This ensures the stability and accuracy of infusion.

◆ Reliable and safe

In compliance with European standards and FDA Guidance for Industry and FDA Staff, the MP-60 infusion pump integrates strict risk management control. The acousto-optic alarm design complies with electrical medical device standards and supports separate audible alarms. With this design, alarms can be generated in time even if the circuit malfunctions, which enables the patients and medical staff to use the MP-60 infusion pumps without any worry.

◆ Easy-to-use

With the popular touchscreen, beautiful display interface, humanistic color, magnified number display, and simple function menu, the MP-60 infusion pump makes infusion simpler and more convenient.

◆ Motorized Door Mechanism

The MP-60 infusion pump adopts the motorized pump door that is designed and produced based on the patent technology. Users can easily operate the pump door to open or close it. The dynamoelectric door enables the sensor to better monitor the status of the pump door and ensures that infusion is supported when the pump door is closed, thereby ensuring the safety of infusion.

◆ Wi-Fi networking

The MP-60 infusion pump is equipped with a built-in Wi-Fi module. The Wi-Fi module is connected to the venoclysis ICMS to monitor the infusion status of patients in infusion rooms and wards in real time to discover infusion problems in time, which reduces the workload of medical staff and ensures safe and reliable infusion. The infusion pump with a built-in Wi-Fi module can easily connect to the clinical information system (CIS) of the hospital.

◆ Motorized Anti-Free Flow Mechanism

The MP-60 infusion pump adopts the motorized anti-free flow mechanism that is designed and produced based on the patent technology. Users can slightly press the infusion stop clamp to stop or resume infusion.



◆ Voice communication

The voice communication function realizes the real-time communication between patients and medical staff, thereby handling infusion problems in time. In addition, the infusion pump with the built-in voice communication function can make up the traditional nurse call system and enable extra bed patients to enjoy kindnesses from medical staff.

◆ Night mode

The bright display of the traditional infusion pump causes light interference to patients and medical staff at night and even affects the rest and treatment of patients. In night mode, the MP-60 infusion pump can automatically decrease the brightness of the display and the alarm sound, thereby reducing acousto-optic interference without affecting the normal operation.

◆ Barcode scanning

For standardized clinical treatment, patient information needs to be accurately entered on medical devices. The complex and error-prone traditional information entering mode decreases the working efficiency of medical staff and aggravates the burden. The barcode scanning function makes it simple and easy to enter patient information.

◆ Automatic maintenance reminder

The infusion pump needs to be maintained periodically. The automatic maintenance reminder function can ensure timely maintenance, thereby saving resources for medical institutions.

◆ Multiple infusion modes

Flow Rate mode, Drop mode, Time mode, Body Weight mode, Multi-Rate mode, and Cascaded mode.

◆ Dual-CPU design

Operation display and stepper motor control are implemented by two CPUs, thereby ensuring real-time control and data reliability.

◆ Anti-Bolus

The pressure is automatically lowered when the occlusion alarm, thereby reducing overdose infusion.

◆ High values

The product has multiple patents for invention, presenting higher values.



MP-30

SYRINGE PUMP

Multiple operating modes. Automatic identifies syringe sets with different specifications. Multi-channel infusion/syringe pumps. With Infusion Workstation can operate in cascade connection infusion. Wi-Fi data transmission functions with Infusion Central Monitoring System (ICMS). Multiple Powers: AC power supply, DC power supply, and built-in battery.



Touch Button



Multi-channel



Features And Functions:

◆ Accurate Infusion

The MP-30 syringe pump adopts the lead mechanism processed using the special computerized numerical control system and the integrated nut. The increase in part processing costs brings more accurate and firmer mechanical cooperation. The improved precise drive assembly and the upgraded infusion control algorithm embedded with the modular circuit makes infusion more stable and accurate.

◆ Reliable and safe

In compliance with European standards and FDA Guidance for Industry and FDA Staff, the MP-30 syringe pump integrates strict risk management control. The acousto-optic alarm design complies with electrical medical device standards and supports separate audible alarms. With this design, alarms can be generated in time even if the circuit malfunctions, which enables the patients and medical staff to use the MP-30 syringe pumps without any worry.

◆ Easy-to-use

With the popular touchscreen, beautiful display interface, humanistic color, magnified number display, and simple function menu, the MP-30 syringe pump makes infusion simpler and more convenient.

◆ Multi-channel Combination

The MP-30 syringe pump adopts the modular structure. It can be used separately, combined into multi-channel infusion pumps and multi-channel infusion/syringe mixing pumps by means of building blocks, or inserted into a composite box for cascaded infusion. In this way, infusion and syringe pumps are really configured based on demands in clinical applications, thereby maximizing the utilization rate of devices of medical institutions.

◆ Wi-Fi networking

The MP-30 syringe pump is equipped with a built-in Wi-Fi module. The Wi-Fi module is connected to the venoclysis ICMS to monitor the infusion status of patients in infusion rooms and wards in real time to discover infusion problems in time, which reduces the workload of medical staff and ensures safe and reliable infusion. The infusion pump with a built-in Wi-Fi module can easily connect to the clinical information system (CIS) of the hospital.

◆ Automatic maintenance reminder

The infusion pump needs to be maintained periodically. The automatic maintenance reminder function can ensure timely maintenance, thereby saving resources for medical institutions.



◆ Night mode

The bright display of the traditional infusion pump causes light interference to patients and medical staff at night and even affects the rest and treatment of patients. In night mode, The MP-30 syringe pump can automatically decrease the brightness of the display and the alarm sound, thereby reducing acousto-optic interference without affecting the normal operation.

◆ Barcode scanning

For standardized clinical treatment, patient information needs to be accurately entered on medical devices. The complex and error-prone traditional information entering mode decreases the working efficiency of medical staff and aggravates the burden. The barcode scanning function makes it simple and easy to enter patient information.

◆ Anti-Bolus

The pressure is automatically lowered when the occlusion alarm, thereby reducing overdose infusion.

◆ Voice communication

The voice communication function realizes the real-time communication between patients and medical staff, thereby handling infusion problems in time. In addition, the infusion pump with the built-in voice communication function can make up the traditional nurse call system and enable extra bed patients to enjoy kindnesses from medical staff.

◆ Multiple infusion modes

Flow Rate mode, Time mode, Body Weight mode, Multi-Rate mode and Cascaded mode.

◆ Dual-CPU design

Operation display and stepper motor control are implemented by two CPUs, thereby ensuring real-time control and data reliability.

◆ High values

The product has multiple patents for invention, presenting higher values.



MP-900 INFUSION CENTRAL MONITORING SYSTEM

A computer system configured with the host, printer, microphone, loudspeaker box, and wireless router is deployed. The computer is installed with the ICMS software. A wireless local area network is formed using Wi-Fi to connect the syringe pumps, infusion pumps, and Infusion Workstation in each ward to the computer.



Feature

Software can be installed on a desktop or portable computer.

Operations can be performed using a mouse or through the touchscreen.

The syringe pumps, infusion pumps, and Infusion Workstation can be remotely monitored in wireless mode.

Up to 3810 pumps can be remotely monitored.

Single-bed monitoring, multi-bed monitoring, multi-ward monitoring, and whole-department monitoring are supported.

Parameters are monitored, including patient information, running parameters of syringe and infusion pumps, and alarms of syringe and infusion pumps.

The bell and voice calls are supported between the syringe/infusion pump and the Infusion Workstation.

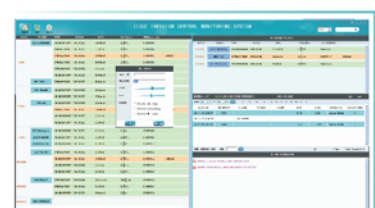
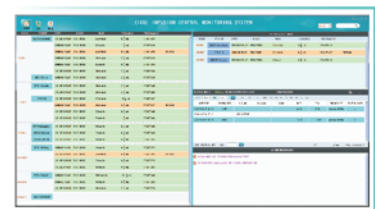
The function of looking up patient information is supported.

Historical event records can be looked up, backed up, imported, and printed.

The three-level (high, mediate, and low) acousto-optic alarm function is supported.

The reliable and stable data encryption and redundancy technologies are adopted.

Control operation is not performed on the connected syringe, infusion, and composite pumps to ensure safety of infusion.



MP PRODUCT LINE

TECHNICAL PARAMETERS

Product name	MP-30 syringe pump
Power supply	AC100-240V External DC 12V Built-in battery(6 hours for continues working)
Compatible syringes	10mL, 20mL, 30mL, and 50(60)mL
Infusion mode	Speed mode, Time mode, Weight mode, Multi-rate mode, and Cascaded mode
Infusion speed range	0.1-2000.0mL/h, with the minimum increment of 0.1 mL/h
Infusion accuracy	±2%
Occlusion level and range	Three levels are supported. The pressure range is 200-1100 mmHg
Alarm	Nearly empty; Infusion complete; Occlusion; Battery empty; Low battery; No power supply; Drop alarm; Air alarm; Technical alarm ;Reminder; Silence.
Special functions	Event recording, sound volume adjustment, automatic power supply switching, and barcode scanning
Wireless networking	It is connected to the Infusion Central Monitoring System (ICMS) , Nurse calls, Voice communication, and connected to CIS.
Safety standards	IEC60601-1, IEC60601-1-2, IEC60601-1-4, IEC60601-1-24, IEC60601-1-8

Product name	MP-60 infusion pump
Power supply	AC 100-240 V External DC 12 V Built-in battery(5 hours for continues working)
Applicable infusion sets	All disposable infusion sets in compliance with ISO 8536-4
Infusion mode	Speed mode, Drop mode, Time mode, Weight mode, Multi-rate mode, and Cascaded mode
Infusion speed range	0.1-1200.0mL/h, with the minimum increment of 0.1 mL/h
Infusion accuracy	±5%
Occlusion level and range	Three levels are supported. The pressure range is 200-1100 mmHg.
Alarm	Near end; Infusion complete; Occlusion; Battery empty; Low battery; No power supply ; Drop alarm; Air alarm; T echnical alarm ;Reminder; Silence.
Special functions	Event recording, sound volume adjustment, automatic power supply switching, and barcode scanning
Wireless networking	It is connected to the Infusion Central Monitoring System(ICMS) , Nurse calls, Voice communication, and connected to CIS.
Safety standards	IEC60601-1, IEC60601-1-2, IEC60601-1-4, IEC60601-1-24, IEC60601-1-8

Product name	MP-80 Infusion Workstation
Power supply	AC 100-240 V
Applicable syringe pump	MEDCAPTAIN syringe pumps (model: MP-30)
Applicable infusion pump	MEDCAPTAIN infusion pumps (model: MP-60)
Number of connected composite boxes	1 to 5
Number of channels in composite syringe and infusion pumps	1 to 15
Wireless networking	It is connected to the Infusion Central Monitoring System(ICMS) and supports nurse calls, voice
Cascaded infusion	communication, and information interworking.Cascaded infusion is supported between infusion/syringe pumps.
Safety standards	IEC60601-1, IEC60601-1-2, IEC60601-1-4, IEC60601-1-8



SYS-6010

Infusion Pump

Supports all infusion sets in compliance with ISO 8536-4. Automatic infusion accuracy adjustment. Multiple infusion operating modes. Wireless data transmission (Wi-Fi) with Infusion Central Monitoring System(ICMS). Multiple powers: AC power supply, DC power supply, and built-in battery.



Motorized Door

Touch Button

Features And Functions:

◆ Accurate infusion

The SYS-6010 infusion pump adopts a compact peristaltic pump structure that realizes the correct cooperation between parts and enables the peristaltic tablet to move more stably and smoothly, which is different from the traditional loose structure. The emulated pipe guiding device avoids pipe bending and deflection. The infusion control algorithm bases on lots of scientific studies and experiments of engineers. This ensures the stability and accuracy of infusion.

◆ Reliable and safe

In compliance with European standards and FDA Guidance for Industry and FDA Staff, the SYS-6010 infusion pump integrates strict risk management control. The acousto-optic alarm design complies with electrical medical device standards and supports separate audible alarms. With this design, alarms can be generated in time even if the circuit malfunctions, which enables the patients and medical staff to use the SYS-6010 infusion pumps without any worry.

◆ Easy- to-use

With the popular touchscreen, beautiful display interface, humanistic color, magnified number display, and simple function menu, the SYS-6010 infusion pump makes infusion simpler and more convenient.

◆ Motorized Door Mechanism

The SYS-6010 infusion pump adopts the motorized pump door that is designed and produced based on the patent technology. Users can easy operate the pump door to open or close it. The dynamoelectric door enables the sensor to better monitor the status of the pump door and ensures that infusion is supported when the pump door is closed, thereby ensuring the safety of infusion.

◆ Wi-Fi networking

The SYS-6010 infusion pump is equipped with a built-in Wi-Fi module. The Wi-Fi module is connected to the venoclysis ICMS to monitor the infusion status of patients in infusion rooms and wards in real time to discover infusion problems in time, which reduces the workload of medical staff and ensures safe and reliable infusion. The infusion pump with a built-in Wi-Fi module can easily connect to the clinical information system (CIS) of the hospital.

◆ Motorized Anti-Free Flow Mechanism

The SYS-6010 infusion pump adopts the motorized anti-free flow mechanism that is designed and produced based on the patent technology. Users can slightly press the infusion stop clamp to stop or resume infusion.



◆ Voice communication

The voice communication function realizes the real-time communication between patients and medical staff, thereby handling infusion problems in time. In addition, the infusion pump with the built-in voice communication function can make up the traditional nurse call system and enable extra bed patients to enjoy kindnesses from medical staff.

◆ Night mode

The bright display of the traditional infusion pump causes light interference to patients and medical staff at night and even affects the rest and treatment of patients. In night mode, the SYS-6010 infusion pump can automatically decrease the brightness of the display and the alarm sound, thereby reducing acousto-optic interference without affecting the normal operation.

◆ Barcode scanning

For standardized clinical treatment, patient information needs to be accurately entered on medical devices. The complex and error-prone traditional information entering mode decreases the working efficiency of medical staff and aggravates the burden. The barcode scanning function makes it simple and easy to enter patient information.



◆ Automatic maintenance reminder

The infusion pump needs to be maintained periodically. The automatic maintenance reminder function can ensure timely maintenance, thereby saving resources for medical institutions.

◆ Multiple infusion modes

Flow Rate mode, Drop mode, Time mode, Body Weight mode, and Multi-Rate mode

◆ Dual-CPU design

Operation display and stepper motor control are implemented by two CPUs, thereby ensuring real-time control and data reliability.

◆ Anti-Bolus

The pressure is automatically lowered when the occlusion alarm, thereby reducing overdose infusion.

◆ High values

The product has multiple patents for invention, presenting higher values.



SYS-3011/3010

Syringe Pump

Easy
operation

Safety and
reliability

Characteristics

Easy operation: The SYS-3011/3010 Syringe Pump is designed to meet the customer requirements sufficiently. With easy operations, clear user-friendly interfaces, and consummate software and hardware design, the SYS 30 Syringe Pump tends to be smarter. The complex smart design brings easy operations.

Safety and reliability: The SYS-3011/3010 Syringe Pump is based on the IEC/CEN standard and in accordance with the rules of the FDA guide. It has a patent accurate transmission mechanism, more internal monitoring sensors, and a sealing and waterproof mechanism.

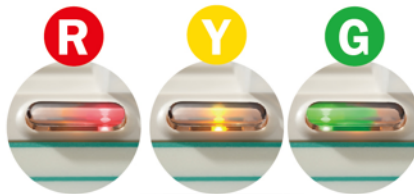
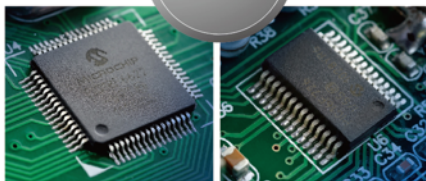
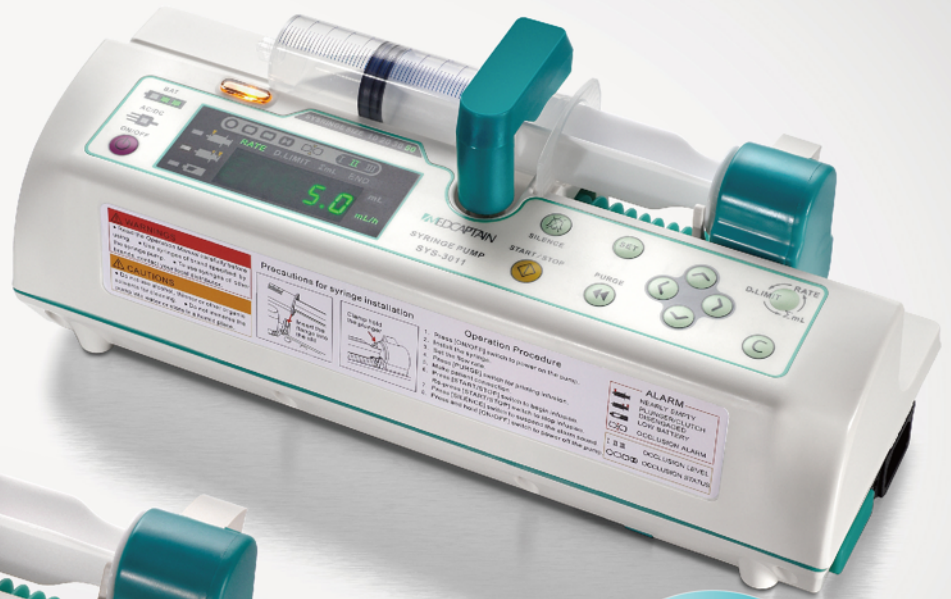


Features

- This syringe pump is designed with consummate and easy man-machine operation interfaces.
- The patent transmission mechanism brings a stable infusion.
- The fine 16-Microstep driving technology of step motor brings a more accurate flow rate.
- It has 11 sensors to perform real-time integrated intelligent monitoring, which brings a reliable infusion.
- It has 13 positions with waterproof design to guarantee safe infusion.
- The pump can automatically reduce the pressure in case of occlusion, which prevents overdose infusion.



Three injection modes
Fit in with various brands of syringes.



With the double CPU application, the syringe pump operation data is more accurate and timely and the mutual data verification is more reliable.

With two independent alarms, the syringe pump is used more safely and reliably. The alarm function is excellent.

With multi-function interfaces, the syringe pump can connect the DC power externally and perform data information networking and nurse station calls.

SYS PRODUCT LINE

TECHNICAL PARAMETERS

SYS - 6010 Infusion Pump



Product name	SYS-6010 infusion pump
Power supply	AC 100-240 V
Compatible syringes	External DC 12 V
Infusion mode	Built-in battery(5 hours for continues working)
Infusion speed range	All disposable infusion sets in compliance with ISO 8536-4
Infusion accuracy	Speed mode, Drop mode, Time mode, Weight mode, and Multi-rate mode
Occlusion level and range	0.1-1200.0mL/h, with the minimum increment of 0.1 mL/h
Alarm	±5% Three levels are supported. The pressure range is 200-1100 mmHg.
Special functions	Near end; Infusion complete; Occlusion; Battery empty; Low battery; No power input; Drop alarm; Air alarm; Technical alarm ;Reminder; Silence.
Wireless networking	Event recording, sound volume adjustment, automatic power supply switching, and barcode scanning
Safety standards	It is connected to the Infusion Central Monitoring System(ICMS) , Nurse calls, Voice communication, and connected to CIS. IEC60601-1, IEC60601-1-2, IEC60601-1-4, IEC60601-1-24, IEC60601-1-8

SYS-3010 Syringe Pump



Product name	SYS-3010 syringe pump
Power supply	AC 100-240 V External DC 12 V
	Built-in battery (8 hours for continues working)
Compatible syringes	10mL, 20mL, 30mL, and 50(60)mL
Infusion speed range	0.1-2000.0mL/h, with the minimum increment of 0.1 mL/h
Infusion accuracy	±2%
Occlusion level and range	Three levels are supported. The pressure range is 200-1000 mmHg
Alarm	Nearly empty; Infusion complete; Occlusion; No battery; Low battery; No AC power; No external power; Self-test error ;Reminder; Silence.
Special functions	Event recording, automatic power supply switching, Repeat alarming, Alarm volume setting, and shut down.
Safety standards	IEC60601-1, IEC60601-1-2, IEC60601-1-4, IEC60601-1-24, IEC60601-1-8

IV Sets and Accessories



PRODUCTS

Syringe



Syringe extension tube



IV sets



