Company Profile

Established in 2010, Medcaptain Medical Technology Co., Ltd. is a high-tech enterprise, founded by a group of highly experienced medical device professionals. Many of us have worked in NYSE-listed medical device companies 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 are proud to release to the market, our ultra-precise multifunction infusion pump and high integrality syringe pumps, especially the high-end line of infusion pump. The solution ensures 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 utilize 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.

“Innovation” 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, anaesthesia, etc. and to build a better healthcare for human being.

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Features

- Multi-channel combination: Up to five composite boxes are available and 15-channel infusion pumps can be combined.
- Cascade infusion: Cascade infusion is supported between infusion syringe pumps.
- Modular Stackable Combination: Multi-channel infusion/syringe pumps can be combined easily without using any tools.
- 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.

Features And Functions:

• **Accurate Infusion**
  The MP-60 infusion pump adopts a forced periodic pump structure that realizes the correct cooperation between gears and sleeves, ensuring the peristaltic tube to move more easily and smoothly, which is different from the traditional linear structure. The simulated pipe-pulling device avoids pump bending and deflection. The infusion control algorithm bears in mind the scientific studies and experiments of engineers. This ensures the stability and accuracy of infusion.

• **Reliable and Safe**
  In accordance with European standards and FDA Guidance for Industry and CMC, the MP-60 infusion pump integrates a reliable management control system and a series of fault protection measures. The acoustic alarm design complies with national 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**
  Unlike the traditional infusion pumps, the MP-60 infusion pump adopts a large-screen display, touch button, multi-directional control, magnified number display, and simple function menu, making infusion simpler and more convenient.

• **Motorized Door Mechanism**
  The motorized door mechanism is designed to ensure that the pump door is opened or closed automatically when the pump is operated. The operation mode is displayed on the screen to make sure the pump is in the right mode.

• **Motorized Anti-Freeze Flow Mechanism**
  The motorized anti-frost flow mechanism is designed to ensure that the pump is automatically closed when the temperature drops, preventing freezing and damage to the pump.

• **Voice Communication**
  The voice communication function realizes real-time communication between the pump and medical staff, enabling medical staff to remotely monitor patients in real-time. In addition, the infusion pump with the built-in voice communication function can make up for the lack of nurse call system and enable extra bed patients to receive medical assistance 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 lower the brightness of the display and the alarm sound, thereby reducing acoustical interference without affecting the normal operation.

• **Barcode Scanning**
  For standard medical treatment, patient information needs to be accurately recorded on medical devices. The computer's bar code scanner can quickly scan the patient's information, making the treatment process more efficient and reducing medical errors. The barcode scanning function makes it simpler and easier to enter patient information.

• **Automatic Maintenance Reminder**
  The MP-60 infusion pump realizes automatic maintenance through the automatic maintenance reminder, saving medical staff maintenance time by efficiently managing resources for medical institutions.

• **Multiple Infusion Modes**
  The MP-60 infusion pump can operate in multiple modes: Flow Rate mode, Drop mode, Time mode, Body Weight mode, Multi-Rate mode, and Customized mode.

• **Dual-CPU Design**
  The 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 occurs, thereby reducing overdose infusion.

• **High Values**
  The product has multiple functions for operation, preventing 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 correction infusion. Wi-Fi data transmission functions with Infusion Central Monitoring System (CMS). Multiple PowerAC power supply, DC power supply, and built-in battery.

Features And Functions:

• Accurate Infusion
  The MP-30 syringe pump adopts the lead mechanism processor using the special computerized numerical control system and the magnetic nut. The increase in cost processing costs brings more accurate and firm mechanical cooperation. The improved precision drive assembly and the upgraded infusion control algorithm reinforce with the modular circuit makes infusion more stable and accurate.

• Reliable and safe
  In compliance with Chinese standards and FDA standards for Industry and FDA. Reliability. The MP-30 syringe pump is evacuated in the design stage of the safety of medical institutions. The air-vent valve design prevents the air-leakage of medical devices. With the air-inlet port, which ensures the patient and medical staff to use the MP-30 syringe pump without any worry.

• Easy-to-use
  The popular design lowers down the user interface. The user-friendly, integrated number display, and simple function menu, the MP-30 syringe pump makes infusion simple 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 pumps by means of building blocks, or inserted into a portable box for cascade infusion. In this way, infusion and syringe pumps are easily 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 a network that is connected to the Ethernet or Wi-Fi in the hospital to transmit the infusion status of patients in real-time and allows in real-time to discover infuser 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 module can be set to record automatically. 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 nurses and medical staff in night and causes discomfort to the feed and treatment of patients in night mode. The MP-30 syringe pump can automatically dim the brightness of the display and the alarm sound, thereby reducing the noise to the infusion pump.

• Barcode scanning
  For non-hazardous clinical treatment, patient information needs to be accurately entered on printed devices, the capture and error-proof scanning information ensures that the information is accurate and reduces 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 the occurrence of infusion.

• Voice communication
  The voice communication function realizes the real-time communication between nurses and medical staff, thereby handling infusion problems in time. In addition, the infusion pump with the built-in voice communication function can make the infusion nurse call function accessible to ensure that patients can enjoy the services from medical staff.

• Multiple infusion modes
  Flow-rate mode, Time-looks mode, Multi-Kale mode, and Cascade 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
  This 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 touch-screen.

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

Up to 3890 pumps can be remotely monitored.

Single-bed monitoring, multi-bed monitoring, multi-room monitoring, and multi-hospital remote monitoring are also supported.

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

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

The function of keeping up patient information is supported.

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

The three-level (high, medium, and low) audible 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

<table>
<thead>
<tr>
<th>Product name</th>
<th>MP-90 Infusion Workstation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>AC 100~240V, Battery 6 hours for continuous working</td>
</tr>
<tr>
<td>Applicable syringe</td>
<td>MUXIM150, 131 syringe pumps model MP-901</td>
</tr>
<tr>
<td>Applicable infusion</td>
<td>INFAPTRAN infusion pumps (Model MP-90)</td>
</tr>
<tr>
<td>Number of pumps</td>
<td>1 to 5 composite pumps, 1 to 10 infusion pumps</td>
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<tr>
<td>Number of channels</td>
<td>1 to 5 composite syringe and infusion pumps</td>
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<tr>
<td>Wireless networking</td>
<td>It is connected to the Infusion Central Monitoring System (ICMS)</td>
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<tr>
<td>Corrected infusion</td>
<td>Corrected infusion is supported in supported infusion syringe pumps</td>
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<tr>
<td>safety standards</td>
<td>IEC60601-1, IEC60601-2, IEC60601-2-1, IEC60601-1-1, IEC60601-1-2</td>
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<table>
<thead>
<tr>
<th>Product name</th>
<th>MP-90 Infusion Workstation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>AC 100~240V, External DC 12V, Battery 6 hours for continuous working</td>
</tr>
<tr>
<td>Applicable infusion</td>
<td>All disposable infusion sets in compliance with ISO 8036-1</td>
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<tr>
<td>Infusion mode</td>
<td>Speed mode, Drop mode, Time mode, Weight mode, Multi-rate mode, and Corrected mode</td>
</tr>
<tr>
<td>Infusion speed range</td>
<td>0.001~2000 mL/h, with the minimum increment of 0.1 mL</td>
</tr>
<tr>
<td>Infusion accuracy</td>
<td>±3%</td>
</tr>
<tr>
<td>Occlusion level and range</td>
<td>Three levels are supported. The pressure range is 200~1500 mmHg</td>
</tr>
<tr>
<td>Alarm</td>
<td>New and infusion complete: Occlusion (Battery empty: Low battery: No power supply: Drop alarm: Air alarm: Technical alarm: Reminder: Silence</td>
</tr>
<tr>
<td>Special functions</td>
<td>External monitoring, external alarm adjustment, external alarm, power supply monitoring, and barcode scanning</td>
</tr>
<tr>
<td>Wireless networking</td>
<td>It is connected to the Infusion Central Monitoring System (ICMS)</td>
</tr>
<tr>
<td>Safety standards</td>
<td>IEC60601-1, IEC60601-2, IEC60601-2-1, IEC60601-1-1, IEC60601-1-2</td>
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<table>
<thead>
<tr>
<th>Product name</th>
<th>MP-90 syringe pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>AC100~240V</td>
</tr>
<tr>
<td>Compatible syringe</td>
<td>10mL, 20mL, 30mL, 50mL, 100mL</td>
</tr>
<tr>
<td>Infusion mode</td>
<td>Speed mode, Time mode, Weight mode, Multi-rate mode, and Corrected mode</td>
</tr>
<tr>
<td>Infusion speed range</td>
<td>0.1~2000 mL/h, with the minimum increment of 0.1 mL</td>
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<tr>
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<tr>
<td>Alarm</td>
<td>New and infusion complete: Occlusion: Battery empty: Low battery: No power supply: Drop alarm: Air alarm: Technical alarm: Reminder: Silence</td>
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<td>Special functions</td>
<td>External monitoring, external alarm adjustment, automatic alarm, power supply monitoring, and barcode scanning</td>
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<td>Safety standards</td>
<td>IEC60601-1, IEC60601-2, IEC60601-2-1, IEC60601-1-1, IEC60601-1-2</td>
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</table>
SYS-6010
Infusion Pump


Features And Functions:

- **Accurate infusion**
The SYS-6010 infusion pump adopts a compact, portable pump structure that reduces the risk of cross-contamination between ports and enables the portable device to move more subtly and sensibly, which is different from the traditional infusion system. The infusion rate is controlled by the infusion pump's advanced microprocessor, ensuring accurate and reliable infusion rates.

- **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 exclusive safety alarm design complies with global safety management standards and supports a separate audible alarm. 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 pump with more confidence.

- **Easy-to-use**
With the full-color touchscreen, beautiful display interface, human-friendly design, programmable alarm 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 door (left) to ensure the correct cooperation between ports and enables the portable device to move more subtly and sensibly, which is different from the traditional infusion system. The infusion rate is controlled by the infusion pump's advanced microprocessor, ensuring accurate and reliable infusion rates.

- **Voice communication**
The voice communication function enables real-time communication between patients and medical staff, thereby handling infusion problems in time. In addition, the infusion pump can be used as a voice communication function to make up for the traditional voice call system and enable elderly 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 sensory irritation without affecting the normal operation.

- **Barcode scanning**
For standardized clinical treatment, patient information needs to be accurately entered into medical devices. The complex and error-prone traditional methods of entering patient information are replaced by the barcode scanning function, which is 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 rate mode, time mode, body weight mode, and multiple rate mode.

- **Dual-CPU design**
Operational 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.
Characteristics

Easy operation: The SYS 30 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 compact smart design brings easy operations.

Safety and reliability: The SYS 30 Syringe Pump is based on the IEC/IECEN standard and in accordance with the rules of the FDA guide. It has a patent accurate transmission mechanism, more internal monitoring sensors, and a scaling 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-Microstop 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 nutrient 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**

**SYS - 6010**
Infusion Pump

<table>
<thead>
<tr>
<th>Product name</th>
<th>SYS - 6010 infusion pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>AC 110-240 V, Automatic DC 12 V</td>
</tr>
<tr>
<td>Applicable infusion sets</td>
<td>All disposable infusion sets in compliance with ISO 8036-4</td>
</tr>
<tr>
<td>Infusion mode</td>
<td>Single, drop, rate, time, weight, and multi-rate mode</td>
</tr>
<tr>
<td>Infusion control range</td>
<td>0.1-1000 mL/h, with a minimum increment of 0.1 mL/h</td>
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<tr>
<td>Infusion accuracy</td>
<td>±5%</td>
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<tr>
<td>Occlusion level and range</td>
<td>Three levels are supported. The pressure range is 200-1100 mmHg</td>
</tr>
<tr>
<td>Alarm</td>
<td>Nerve, infusion complete, Occlusion, battery empty, Low battery, no power input, Drop alarm, Air alarm, Technical alarm, Reminder, Silence</td>
</tr>
<tr>
<td>Special functions</td>
<td>Event recording, manual function, automatic power supply switching, and barcode scanning</td>
</tr>
<tr>
<td>Wireless networking</td>
<td>It is connected to the infusion Central Monitoring System (CMS). Nurse call, voice communication, and connected to CDS</td>
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**SYS - 30**
Syringe Pump

<table>
<thead>
<tr>
<th>Product name</th>
<th>SYS - 30 syringe pump</th>
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<tbody>
<tr>
<td>Power supply</td>
<td>AC 110-240 V, Automatic DC 12 V</td>
</tr>
<tr>
<td>Compatible syringes</td>
<td>10mL, 20mL, 30mL, and 50mL syringes</td>
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<tr>
<td>Infusion speed range</td>
<td>10-1000 mL/h, with a minimum increment of 0.1 mL/h</td>
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<tr>
<td>Infusion accuracy</td>
<td>±2%</td>
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<tr>
<td>Occlusion level and range</td>
<td>Three levels are supported. The pressure range is 200-1100 mmHg</td>
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<tr>
<td>Alarm</td>
<td>Nerve, infusion complete, Occlusion, battery empty, Low battery, no AC power, no external power</td>
</tr>
<tr>
<td>Special functions</td>
<td>Event recording, automatic power supply switching, Repeat alarm, Alarm volume adjustment, shut down</td>
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</table>

**PRODUCTS**

**Syringe**

**Syringe extension tube**

**IV sets**