Exclusive distributor Benelux:

Infusion Technology
Estersveldlaan 53
5361HS Grave
The Netherlands
Tel. +31 (0)486-785014
Mob. +31 (0)6-37741019
Fax. +31(0)486-851510
Email: jurgen.reimer@infusiontechnology.eu
www.infusiontechnology.eu
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 vasodilatation demands of patients.

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.
- Modular Stackable 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.

Features And Functions:

- **Accurate infusion**
  The MP-60 infusion pump adopts a recessed periodic pump structure that realizes the correct cooperation between parts and eliminates the periodic oscillation to move more steadily and smoothly, which is different from the traditional hose structure. The cam-driven pipe-guiding device avoids pipe bending and deflection. The infusion central algorithm bases on lots of scientific studies and experiences 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 constant mode alarm design complies with international 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 touch screen, beautiful display interface, humanized color, magnified memory 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 door mechanism that is designed and produced based on the patient technology. Users can easily open the pump door to open or close the motorized door to better monitor the status of the pump door and ensures that infusion is stopped 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 wireless CMS to monitor the infusion status of patients in infusion rooms and enables real-time monitoring of patients, thereby reducing the workload of medical staff and ensuring safe and reliable infusion. The infusion pump with a built-in Wi-Fi module can remotely control the clinical information system (CIS) of the hospital.

- **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 easily communicate from medical staff.

- **Night mode**
  The bright display of the traditional infusion pump causes light interference to patients and medical staff at night, even affecting 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 the noise in the night operation.

- **Barcode scanning**
  For standardized clinical treatment, patient information needs to be accurately recorded on medical devices. The MP-60 infusion pump with the barcode scanning function can ensure that the information is accurate, thereby reducing the error rate of infusion and improving the accuracy of infusion.

- **Automatic maintenance reminder**
  The infusion pump needs to be maintained periodically. The automatic maintenance reminder function can ensure timely maintenance, thereby reducing the risk of medical accidents.

- **Multiple infusion modes**
  Flow Rate mode, Drop mode, Time mode, Body Weight mode, Multi-Rate mode, and Equal mode.

- **Dual-CPU design**
  Operation display and dropper motor control are implemented by two CPUs, thereby ensuring real-time control and data reliability.

- **Anti-Bolus**
  The pressure is automatically lowered when the bolus infusion is in progress, thereby reducing the risk of over-dose infusion.

- **High values**
  The product has multiple potentials for invention, presenting higher values.
Features And Functions:

- **Accurate Infusion**
  The MP-30 syringe pump adopts the lead mechanism processed using the special computer and numerical control system and the integrated unit. The increase in part processing costs brings more accurate and firmer mechanical cooperation. The improved precision 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 Guidelines for Industry and FDA Staff, the MP-30 syringe pump integrates strict risk management control. The accurate optical 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 with full trust and confidence.

- **Easy-to-use**
  With the popular touchscreen, beautiful display interface, humanized color, integrated 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 infusions pumps and multi-channel infusion/syringe mixing pumps by means of building blocks, or inserted into a compound box for cascaded 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 connected to the wireless (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 pumps with a built-in Wi-Fi management 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 the ward. The MP-30 syringe pump can automatically decrease the brightness of the display and the alarm sound, thereby reducing acoustic noise interference without affecting the normal operation.

- **Barcode scanning**
  For standardized clinical infusion, 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 correct medical information.

- **Anti-Bolus**
  The pressure is automatically lowered when the occlusion alarm, thereby reducing infusion problems.

- **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 replace the traditional nurse call system and enable voice broadcast, patients to convey messages from medical staff.

- **Multiple infusion modes**
  How to make infusion rates, body structures, and infusion modes 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 syringes 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, medium, and low) acoustic-alarm alert function is supported. The reliable and stable data encryption and redundancy technologies are adopted. Control operation is not performed on the connected syringes, infusion, and composite pumps to ensure safety of infusion.

MP PRODUCT LINE

TECHNICAL PARAMETERS

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

<table>
<thead>
<tr>
<th>Product name</th>
<th>MP-90 Infusion pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>AC 100-240 V, External DC 12V, Built-in battery (hours for continuous working)</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>Speed mode, Drop mode, Time mode, Weight mode, Multi-rate mode, and Cascade mode</td>
</tr>
<tr>
<td>Infusion speed range</td>
<td>0.1-1200.0ml/h, with the minimum increment of 0.1ml/h</td>
</tr>
<tr>
<td>Infusion accuracy</td>
<td>±5%</td>
</tr>
<tr>
<td>Occlusion level range</td>
<td>Three levels are supported. The pressure range is 200-1100 mmHg</td>
</tr>
<tr>
<td>Alarm</td>
<td>Near empty; 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>Event recording, sound volume adjustment, automatic power supply switching, and barcode scanning.</td>
</tr>
<tr>
<td>Wireless networking</td>
<td>It is connected to the Infusion Central Monitoring System (ICMS), Nurse calls, Voice communication, and connected to OS.</td>
</tr>
<tr>
<td>Safety standards</td>
<td>IEC60601-1, IEC60601-1-2, IEC60601-1-4, IEC60601-4-24, IEC60601-1-8</td>
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</table>

<table>
<thead>
<tr>
<th>Product name</th>
<th>MP-30 syringe pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>AC 100-240V (External DC 12V, Built-in battery (hours for continuous working)</td>
</tr>
<tr>
<td>Compatible syringes</td>
<td>10ml, 20ml, 30ml, and 60000ml</td>
</tr>
<tr>
<td>Infusion mode</td>
<td>Speed mode, Time mode, Weight mode, Multi-rate mode, and Cascade mode</td>
</tr>
<tr>
<td>Infusion speed range</td>
<td>0.1-2000.0ml/h, with the minimum increment of 0.1ml/h</td>
</tr>
<tr>
<td>Infusion accuracy</td>
<td>±2%</td>
</tr>
<tr>
<td>Occlusion level range</td>
<td>Three levels are supported. The pressure range is 200-1100 mmHg</td>
</tr>
<tr>
<td>Alarm</td>
<td>Nearly empty; 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>Event recording, sound volume adjustment, automatic power supply switching, and barcode scanning.</td>
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<td>Wireless networking</td>
<td>It is connected to the Infusion Central Monitoring System (ICMS), Nurse calls, Voice communication, and connected to OS.</td>
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<tr>
<td>Safety standards</td>
<td>IEC60601-1, IEC60601-1-2, IEC60601-1-4, IEC60601-4-24, IEC60601-1-8</td>
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</tbody>
</table>
SYS-6010
Infusion Pump


Features And Functions:

• **Accurate Infusion**
  The SYS-6010 infusion pump adopts a compact, portable pump structure that ensures the correct cooperation between parts and enables the pump to reliably control infusion flow, which is different from the traditional hose structure. The unaligned pump guide device avoids pipe bending and deformation. The infusion control algorithm passes in 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 voice communication function can ensure timely maintenance, thereby saving resources for medical institutions.

• **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 easily operate the pump door to open or close it. The light-emitting diode 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 clinical information system (CIS) 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 the reliability of 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 for the traditional nurse call system and enable 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 standard clinical treatments, patient information needs to be accurately entered on medical devices. The complex and error-prone traditional information entering mode depresses the working efficiency of medical staff and aggravates the workload. 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, Titration mode, Multi-rate mode, and Multiple infusion modes.

• **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 infusion pump is automatically lowered when the occlusion alarm thereby reducing overdosage infusion.

• **High Values**
  The product has multiple patents for invention, presenting higher values.
SYS30
Syringe Pump

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 complex smart design brings easy operations.

Safety and reliability: The SYS 30 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-Micropump 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.

Three in 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

**SYS - 6010**

**Infusion Pump**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>SYS-6010 infusion pump</td>
</tr>
<tr>
<td>Power supply</td>
<td>AC 100-240 V, External DC 12 V</td>
</tr>
<tr>
<td>Applicable infusion sets</td>
<td>All disposable infusion sets in compliance with ISO 8536-4</td>
</tr>
<tr>
<td>Infusion mode</td>
<td>Speed mode, Drop mode, Time mode, Weight mode, Multi-rate mode</td>
</tr>
<tr>
<td>Infusion speed range</td>
<td>0.1-2000.0 mL/h, with the minimum increment of 0.1 mL/h</td>
</tr>
<tr>
<td>Infusion accuracy</td>
<td>±1%</td>
</tr>
<tr>
<td>Occlusion level and range</td>
<td>Three levels are supported. The pressure range is 200-1100 mmHg</td>
</tr>
<tr>
<td>Alarms</td>
<td>Near end, 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, Sound volume adjustment, Automatic power supply switching, and barcode scanning.</td>
</tr>
<tr>
<td>Wireless networking</td>
<td>It is connected to the Infusion Central Monitoring System (ICMS), Nurse call, Voice communication, and connected to CIS.</td>
</tr>
<tr>
<td>Safety standards</td>
<td>IEC60601-1, IEC60601-1-2, IEC60601-1-4, IEC60601-1-24, IEC60601-1-8</td>
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**SYS - 30**

**Syringe Pump**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Product name</td>
<td>SYS-30 syringe pump</td>
</tr>
<tr>
<td>Power supply</td>
<td>AC 100-240 V, External DC 12 V</td>
</tr>
<tr>
<td>Compatible syringes</td>
<td>10mL, 20mL, 30mL, and 50mL-60mL</td>
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<tr>
<td>Infusion speed range</td>
<td>0.1-2000.0 mL/h, with the minimum increment of 0.1 mL/h</td>
</tr>
<tr>
<td>Infusion accuracy</td>
<td>±2%</td>
</tr>
<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>Nearly empty, Infusion complete, Occlusion, No battery, Low battery, No AC power, No external power, Self-test error, Reminder, Silence.</td>
</tr>
<tr>
<td>Special functions</td>
<td>Event recording, Automatic power supply switching, Repeat warning, Alarm volume, Recloned shut down.</td>
</tr>
<tr>
<td>Safety standards</td>
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</table>

### PRODUCTS

**Syringe**

**Syringe extension tube**

**IV sets**