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sapphire



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**SOVEREIGN MEDICAL, INC**  
919-644-1113 sovmed.com

# sapphire™ Multi-Therapy

Single solution fits all,  
for any infusion need





## Accurate infusion care, simple, fast, effective, and future-ready

Be empowered with a complete infusion system that delivers multiple therapies, for home care, hospitals, and ambulatory settings. Sapphire drives the future of infusion care.



Compact, lightweight device that is intuitive and easy to use



Consistent accuracy with robust performance



Single solution fits all, for any infusion need



Smart technology that helps you minimize dosage errors and false alarms

## Optimized Patient Outcomes, for the Long-Run

The Sapphire pump is a sturdy performer packed in a small, simplified design.

Programming is quick and easy on its intuitive touchscreen, for setting its feature-rich functionality that combines patented magnetic flow control innovation.

With its maximized reliability, low-flow continuity, and built-in adaptability that meets any new requirement, Sapphire simplifies patient care with confidence for the long-run.



## Make Sapphire Your Advantage

### One infusion pump, multiple therapies

- Multi-therapy capable: TPN, PCA, continuous, multi-step, piggyback, intermittent, epidural, and PIEB
- Intuitive point-of-care programming
- Configurable settings and patient-specific parameters
- Highest  $\pm 2.5\%$  accuracy rate
- Easy switch between pump and gravity infusion

### Exceptional ease that drives patient safety

- Large, clear, color touchscreen
- Quick setup for rapid response
- 4 lock levels
- Dual anti-free flow mechanism in the pump and administration set
- Auto restart after downstream occlusion
- Resume option after shutdown during infusion
- On-screen alarm troubleshooting

### Future-ready care and confidence

- Flexible software-driven pump for versatility and fast enhancement
- Cost-effective upgrades, including additional therapy modes
- A Powerful platform, one user interface for any infusion need

### Thrive with a low total cost of ownership

- Minimized costs throughout product life-cycle, from purchase to upgrade
- High uptime, with a unique pumping mechanism that reduces wear on moving parts
- Remote upgrading online and on-site annual certification
- Reduced spending on training and inventory, based on feature-rich functionality and one common user interface across all therapies
- Highly durable with high protection against fluids, impact and power surges

### Multy-Therapy Key Specifications

#### Dimensions

143 x 96 x 49 mm (5.63 x 3.78 x 1.93 in.)  
(H x W x D)

#### Weight (excluding battery)

418 g (14.7 oz.)

#### Infusion device

Volumetric, peristaltic

#### Pumping mechanism

Single channel volumetric, with an integral pressure sensor

#### Infusion delivery modes

Continuous (with and without a Secondary line), PCA, Intermittent, Multi-step, TPN, Epidural (PCEA, Epidural Intermittent, PIEB)

#### KVO rate

Up to 20 mL/h in increments of 0.1 mL/h

#### Accuracy

$\pm 2.5\%$  under normal conditions (per IEC60601-2-24 standard)

#### Battery

Rechargeable Li-Ion battery 7.4V, 1960 mA/h, 24 hrs @ 125 mL/h (with a fully charged battery and backlight Off)  
Recharge time: up to 6 hrs (when the pump is not in operation)

#### Flow rate

0.1 - 99.9 mL/h in increments of 0.1 mL/h  
100 - 999 mL/h in increments of 1 mL/h

#### Volume (VTBI)

0.1 - 9999 mL in increments of 0.1 mL

#### External power supply

100-240V 50-60 Hz, 0.6A

#### Downstream occlusion

Up to 1.2 Bar (17.4 PSI or 900 mmHg)

#### Air in line sensor

the Sensor detects single and accumulated bubbles of selectable sizes varying from 0.02 mL - 0.5 mL

#### Operating temperature

+5° (41oF) to 40°C (104oF)

#### Water ingress and dust protection

IP24 according to IEC 60601-1-11

#### Prime

Manual or automatic priming (600 mL/h, or from the air in line alarm 900 mL/h)

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Q Core Medical Ltd. is the manufacturer of Sapphire products.