Multi Channel Solutions

Caesarea Medical Electronics
BodyGuard 121 Twins™
Flexible 2 Channels Infusion

Manage two regimens for your patient, bedside or on the go, using the BodyGuard 121 Twins™ dual-channel infusion pump from CME. Priced to compete with larger devices, the BodyGuard 121 Twins™ pump gives you the flexibility to deliver antibiotic, chemotherapy, TPN, and PCA infusion. Lightweight, easy-to-use design lets you set it up anywhere your patient needs care.

Features & Benefits

2 Independent Infusion Channels
Deliver 2 separate treatment regimens using one keypad.

6 Infusion Programs:
- Continuous
- 25-Steps
- TPN
- Intermittent
- PCA
- Dose

Piston Mechanism
Delivers ± 5% accuracy and 1.8μl linear infusion even at the low flow rates.

0.1 to 1200 ml/h Flow Rates
Extra-wide range to serve a variety of infusion regimens.

Ultrasonic Air Sensor
Provides 2 levels of bubble detection.

BodyComm™ Software
Review patient history with charts and 1000 events log or manage pump settings on your PC.

Air & Mobile Medicine
CME infusion pumps provide a complete range of infusion onboard any air or ground vehicle. CME pumps are RTCA-D0160 compliant.

Applications
- Total Parenteral Nutrition (TPN)
- Home Parenteral Nutrition (HPN)
- Critical care
- Patient transport
- Emergency medicine
- Fluid replacements
- Lipids
- Enzyme replacements
- Chronic pain management

Intended Use
- Parenteral
- Intravenous
- Subcutaneous
- Percutaneous
- Intra-Arterial

EMR Ready
Connect to Electronic Medical Record systems to increase safety and optimize clinical workflow.

Flexible Configuration
Supports Multiple Languages
Over 20 languages available to meet your needs and preferences.

True Portability
Size
146 x 84 x 40 mm
A good fit anywhere.

Weight
450 g
 Goes where the patient goes or saves you precious space in the ward/clinic.

Economy & Convenience
Inpatient/Outpatient Accessories
Use a docking station when pole-Mounted or a carrying pouch/backpack for home care.

Battery or AC Powered
Change between battery and AC [wall] power without interrupting infusion therapy.

Safety & Security
Auto Bolus Rate Reduction
Overcomes patient back pressure to help prevent transient occlusion alarms.

Post-Occlusion Bolus Reduction System
Prevents delivery of false boluses following a downstream occlusion event.

Precise In-Line Pressure detection
Detects downstream and upstream pressure graphically displayed on screen.

Drop Sensor
Provides a separate safety check to verify fluid flow from reservoir to patient (Optional).

Free Flow Protection in All Disposables
For added safety.

3-Level Access Codes
Prevent unauthorized program changes. For added safety in accordance with JCAHO guidelines.

Applications
- Total Parenteral Nutrition (TPN)
- Home Parenteral Nutrition (HPN)
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BodyGuard Quadro™

4 Infusion Channels - Simplified

I.V. pole mounted or portable, the Quadro™ multi therapy pump is ideally suited for emergency medicine including air/ground ambulances, and hospital ICU’s. Quadro™ can infuse simultaneously from each of its 4 channels with a potential 4.8 Liter/hour rapid infusion.

The Quadro™ is essentially your cost effective multi-therapy pump that simplifies the clinical workload, even in the most challenging environments.

Applications

- Total Parenteral Nutrition
- Critical care
- Patient transport
- Emergency medicine
- Fluid replacements
- Lipids
- Enzyme replacements
- Chronic pain management

Intended Use

- Parenteral
- Intravenous
- Subcutaneous
- Percutaneous
- Intra-Arterial

Features & Benefits

4 Independent Infusion Channels
Deliver 4 separate treatment regimens using one keypad only.

6 Infusion Programs:
- Continuous
- 25-Steps
- TPN
- Intermittent
- PCA
- Dose

Piston Mechanism
Delivers ± 5% accuracy and 1.8μl linear infusion even at low flow rates.

0.1 to 1200 ml/h Flow Rates
Extra-wide range to serve a variety of infusion regimens.

Air & Mobile Medicine
CME infusion pumps provide a complete range of infusion onboard any air or ground vehicle. CME pumps are RTCA-DO160 compliant.

Ultrasonic Air Sensor
Provides 2 levels of bubble detection.

BodyComm™ Software
Review patient history with charts and 1000 events log or manage pump settings on your PC.

EMR Ready
Connect to Electronic Medical Record systems to increase safety and optimize clinical workflow.

Flexible Configuration
Supports Multiple Languages
Over 20 languages available to meet your needs and preferences.

True Portability
Size
236 x 88 x 41 mm
A good fit anywhere.

Weight
Only 800 g
Goes where the patient goes and saves you precious space in the ward/clinic.

Economy & Convenience

Compatible with a wide range of Oximeter Sensors and Medication Bags
Reduce your cost of patient care.

Same Interface as Single-Channel Pumps
Familiar interface simplifies training and service.

Battery-Powered
Uses extended life rechargeable Li-Polymer battery for true portability. Switches to AC power without interruption.

Safety & Security

Post-Occlusion Bolus Reduction System
Prevents delivery of false boluses following a downstream occlusion event.

Free Flow Protection in All Disposables
For added safety.

3-Level Access Codes
Prevent unauthorized program changes.
# MultiDock™

**Connect & Manage Multiple Infusion Channels**

Simplify management of multiple infusion therapies with a single device designed to save space, organize patient environment, and increase safety. CME now offers customized MultiDock™ stations with the configuration that meets your needs.

## Applications
- Total Parenteral Nutrition
- Critical care
- Patient transport
- Emergency medicine
- Fluid replacements
- Lipids
- Enzyme replacements
- Chronic pain management

## Intended Use
- Parenteral
- Intravenous
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## Features & Benefits

### Diverse Treatment Options

| BodyGuard 121 Twins™ Volumetric Pumps | Ideal for high accuracy large volume delivery of medication, fluid, and blood products. |
| T34L™ Syringe Pumps | Ideal for high accuracy delivery of medication, fluid, and blood products in volumes < 60 ml. |
| T34L-PCA™ Syringe Pumps | delivers accurate analgesic infusion with drug library protocols. |

### NeoFeed™ Syringe Pumps
- delivers dedicated neonatal feeding accurately and safely.

### Flexible Configuration
- You decide the number and type of pumps needed for your practice.

### Versatile Operation
- Operator can remove a pump from the MultiDock™ and mount it on any IV pole for an ambulating patient.

### Air & Mobile Medicine
- CME infusion pumps provide a complete range of infusion onboard any air or ground vehicle. CME pumps are RTCA-D0160 compliant.

### Economy & Convenience

#### Dimensions
- All the infusion channels you need in one space saving, price competitive design. Helps you keep a clean and organized patient environment.

#### Single Power Supply
- Single 100-240V cable supplies up to 10 infusion channels.

#### Rechargeable Batteries
- All mounted pumps are equipped with a primary rechargeable Li-Polymer battery that lets you remove any pump from the MultiDock™ without interrupting infusion.

## Technical Specification

<table>
<thead>
<tr>
<th>MultiDock™</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Compatible with</strong></td>
<td>BodyGuard 121 Twins™, T34L™, T34L-PCA™, NeoFeed™</td>
</tr>
<tr>
<td><strong>Configuration</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Minimum</strong></td>
<td>1 x T34L™ pump or 1 x BodyGuard 121 Twins™ pump</td>
</tr>
<tr>
<td><strong>Max</strong></td>
<td>4 x T34L™ pumps and 3 x BodyGuard 121 Twins™ pumps</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td></td>
</tr>
<tr>
<td>1 x standard 110-240V power cable supply</td>
<td></td>
</tr>
<tr>
<td><strong>Fixation</strong></td>
<td>Medical IV pole, bed pole, wall rails</td>
</tr>
<tr>
<td><strong>Max Dimensions (H/W/D) (w/7 pumps docked)</strong></td>
<td>711 x 600 x 120 mm</td>
</tr>
<tr>
<td><strong>Max Weight (w/7 pumps docked)</strong></td>
<td>8 Kg</td>
</tr>
<tr>
<td><strong>Accessories (optional)</strong></td>
<td>IV pole Assembly</td>
</tr>
</tbody>
</table>
MultiDock™ Intensive Care Suite

6 syringe infusion station

10 infusion line station with volumetric + syringe pumps
### Technical Specification

<table>
<thead>
<tr>
<th>Feature</th>
<th>BodyGuard 121 Twins™</th>
<th>BodyGuard Quadro™</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Piston Mechanism</strong></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Infusion Modes</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>25-Steps</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>TPN</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Intermittent</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>PCA</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Dose</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Drug Library (Optional)</strong></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Size (W/H)</td>
<td>6x2 cm</td>
<td>5.1x2.8 cm</td>
</tr>
<tr>
<td>Resolution (W/H)</td>
<td>122x32 pixels</td>
<td>128x64 pixels</td>
</tr>
<tr>
<td><strong>Flow Rate Accuracy</strong></td>
<td>± 5 %</td>
<td>± 5 %</td>
</tr>
<tr>
<td><strong>Infusion Channels</strong></td>
<td>2 Independent channels</td>
<td>4 Independent channels</td>
</tr>
<tr>
<td><strong>Flow Rate Range</strong></td>
<td>0.1 – 1200 ml/h</td>
<td>0.1 – 1200 ml/h</td>
</tr>
<tr>
<td><strong>Programmable Infusion Time</strong></td>
<td>100 hrs</td>
<td>100 hrs</td>
</tr>
<tr>
<td><strong>Volume to be Infused</strong></td>
<td>0.1 – 9999 ml</td>
<td>0.1 – 9999 ml</td>
</tr>
<tr>
<td><strong>KVO Rate</strong></td>
<td>0 (OFF) – 5 ml/h</td>
<td>0 (OFF) – 5 ml/h</td>
</tr>
<tr>
<td><strong>Ultrasonic Air Sensor</strong></td>
<td>Air bubble size 0.1 – 1 ml</td>
<td>Air bubble size 0.1 – 1 ml</td>
</tr>
<tr>
<td><strong>Occlusion Pressure</strong></td>
<td>5, 7.5 or 10 psi</td>
<td>5, 7.5 or 10 psi</td>
</tr>
<tr>
<td><strong>Post-Occlusion Bolus Protection</strong></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Pump Alarms</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air-in-Line</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Occlusion (up/down stream)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>End Program</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Low Battery</strong></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>End Battery</strong></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Pump Unattended</strong></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Door Open</strong></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Lock Mode</strong></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Missing Key</strong></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>Aviation power supply available</td>
<td>Aviation power supply available</td>
</tr>
<tr>
<td>110 – 240V AC, 50/60 Hz</td>
<td>(20W / 0.12A)</td>
<td></td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rechargeable Li-Polymer 7.2V 1800 mAh, Life at 125ml/hr</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Up to 9hrs</td>
<td></td>
</tr>
<tr>
<td>Rechargeable Li-Polymer 7.2V 3000 mAh, Life at 125ml/hr</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Up to 18hrs</td>
<td></td>
</tr>
<tr>
<td><strong>Connectivity (Optional)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RS232 Serial Port</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>802.11 Wifi</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>BodyComm™ Software (Optional)</strong></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Remote Monitoring System (Optional)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>EMR Interface</strong></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Dimensions; pump only (H/W/D)</td>
<td>146 x 84 x 40 mm</td>
<td>236 x 88 x 41 mm</td>
</tr>
<tr>
<td><strong>Weight (with standard battery)</strong></td>
<td>450 g</td>
<td>800 g</td>
</tr>
</tbody>
</table>
CME Accessories

Wall Charger
Alternate charger for ambulatory use

Bolus cable
Ergonomic bolus-dose delivery handset

Pole-Mount Charger
Mount the Twins™ and Quadro™ on an IV pole, bed pole, or rails

Carry bags
2 & 3 liter backpacks for TPN patients

CME Disposables

Over 200 set configurations built to meet your clinical needs. All sets are MicroSet tubing, Non DEHP or Non PVC. Components manufactured in-house at the highest quality.

General Infusion
- 5ml prime volume
- Y injection port
- Anti free-flow valve

PCA Infusion
- 7ml prime volume
- 0.2mic filter
- Anti free-flow valve

TPN Infusion
- 7ml prime volume
- 1.2mic filter
- Anti free-flow valve

Dual Channel Infusion
- 4ml prime volume
- Dual channel
- Anti free-flow valve
- No drug-mix hazard

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Dual Channel Infusion
- 4ml prime volume
- Dual channel
- Anti free-flow valve
- No drug-mix hazard