



Multi Channel Solutions

CME

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.

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



Features & Benefits

2 Independent Infusion Channels

Deliver 2 separate treatment regimens using one keypad.

6 Infusion Programs:

- Continuous
- Dose / Drug Library
- 25-Steps
- TPN
- Intermittent
- PCA

Piston Mechanism

Delivers $\pm 5\%$ accuracy and 1.8 μ l 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.

BodyComm™ Software

Review patient history with charts and up to 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-DO160 compliant.

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

450g
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 (mains) power without interrupting infusion therapy.

Same Interface as Single-Channel Pumps

Familiar interface simplifies training and service.

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).

Built-in Free Flow Protection

CME administration sets include an integrated anti-siphon valve to meet JCAHO guidelines.

3-Level Access Codes

Prevent accidental or unauthorized program changes.

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

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Features & Benefits

4 Independent Infusion Channels

Deliver 4 separate treatment regimens using one keypad only.

2 Infusion Programs:

- Continuous
- Dose / Drug Library

Piston Mechanism

Delivers $\pm 5\%$ accuracy and 1.8 μ L 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.

BodyComm™ Software

Review patient history with charts and up to 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 800g
Goes where the patient goes and saves you precious space in the ward/clinic.

Economy & Convenience

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

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).

Built-in Free Flow Protection

CME administration sets include an integrated anti-siphon valve to meet JCAHO guidelines.

3-Level Access Codes

Prevent accidental or 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
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Intended Use

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Features & Benefits

Diverse Treatment Options

BodyGuard Color Vision™ Volumetric Pumps - State of the art delivery of all infusion therapies; with customized drug library and EMR connectivity.

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-DO160 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

MultiDock™	
Compatible with Configuration	BodyGuard Color Vision™ or BodyGuard 121 Twins™, T34L™, T34L-PCA™, NeoFeed™
Minimum	1 x T34L™ pump or 1 x BodyGuard 121 Twins™ pump or 1 x BodyGuard Color Vision™ pump
Max	4 x T34L™ pumps and 3 x BodyGuard 121 Twins™ pumps or 4 x T34L™ pumps and 3 x BodyGuard Color Vision™ pumps
Power Supply	1 x standard 110-240 power cable supply
Fixation	Medical IV pole, bed pole, wall rails
Max Dimensions (H/W/D) (w/7 pumps docked)	711 x 600 x 120 mm
Max Weight (w/7 pumps docked)	8 Kg
Accessories (optional)	Heavy based IV pole assembly

MultiDock™ Intensive Care Suite

Configured to your needs, the CME MultiDock™ can be built for any number of infusion lines that is required.



6 syringe infusion station



10 infusion line station with
volumetric + syringe pumps

Technical Specification

	BodyGuard 121 Twins™	BodyGuard Quadro™
Piston Mechanism	✓	✓
Infusion Modes		
Continuous	✓	✓
Dose / Drug Library	✓	✓
25-Steps	✓	
TPN	✓	
Intermittent	✓	
PCA	✓	
Delay Before Start	✓	✓
Infusion Channels	2 Independent channels	4 Independent channels
Concentration Units	mg/ml, mcg/ml, U/ml, mU/ml, mEq/ml, mmol/ml, g/ml, ml	mg/ml, mcg/ml, U/ml, mU/ml, mEq/ml, mmol/ml, g/ml, ml
Flow Rate Accuracy	± 5 %	± 5 %
Flow Rate Range	0.1-99.9 ml/h; 0.1 ml/h Steps	0.1-99.9 ml/h; 0.1 ml/h Steps
Primary & Piggy (Secondary)	100-1200 ml/h; 1 ml/h Steps	100-1200 ml/h; 1 ml/h Steps
Adjustable Maximum Rate	✓	✓
Programmable Infusion Time	Up to 100 hrs	Up to 100 hrs
Volume to be Infused	0.1-99.9 ml; 0.1 ml Steps	0.1-99.9 ml; 0.1 ml Steps
Primary & Piggy (Secondary)	100-6550 ml; 1 ml Steps	100-6550 ml; 1 ml Steps
KVO Rate	0 (OFF) - 5 ml/h	0 (OFF) - 5 ml/h
Resume on Restart	✓	✓
Ultrasonic Air Sensor		
Single Bubble	0.1 - 2 ml	0.1 - 2 ml
Accumulated Air-in-Line	✓	✓
Occlusion Pressure	0,90,150,240,480,560,720,990 mmHg	5, 7.5 or 10 psi
Pressure Sensor Mechanism	✓	✓
Actual Pressure Display & Graph	✓	✓
Post-Occlusion Bolus Protection	✓	✓
Pump Alarms/Alerts	✓	✓
Air/Up Occlusion	✓	✓
Down Occlusion	✓	✓
End Program	✓	✓
Low Battery	✓	✓
End Battery	✓	✓
Pump Unattended	✓	✓
Door Open	✓	✓
Lock Mode	✓	✓
Missing Key	✓	✓
Display		
Size (W/H)	6x2cm	5.1x2.8 cm
Resolution (W/H)	122x32 pixels	128x64 pixels
Power Supply		
100 – 240V AC, 50/60 Hz (10W/0.3A)	✓ Aviation power supply available	
100 – 240V AC, 50/60 Hz (15W)		✓ Aviation power supply available
Battery		
Rechargeable Li-Polymer 7.4V 1800 mAh.	✓	
Life at 125ml/h:	Up to 9hrs	
Recharge Time (Empty to Full):	6hrs	
Rechargeable Li-Polymer 7.4V 3000 mAh.	✓	✓
Life at 125ml/h:	Up to 14hrs	Up to 7hrs
Recharge Time (Empty to Full):	7hrs	7hrs
Connectivity		
RS232 Serial Port	✓	✓
BodyComm™ Software (Optional)	✓	✓
Remote Monitoring System (Optional)		
EMR Interface	✓	✓
Classification	Type CF, Class I	Type CF, Class I
Moisture Protection	IPX1	IPX1
Dimensions; pump only (H/W/D)	146 x 84 x 40 mm	236 x 88 x 41 mm
Weight (with standard battery)	450g	800g

* Specification may vary depending on software version.

** Manufacturer reserves the right to change the specifications without prior notification.

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 Bag

2 & 3 liter backpacks for TPN patients



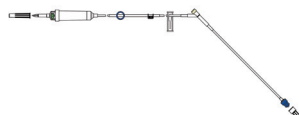
CME Disposables

Over 200 set configurations built to meet your clinical needs.

All sets are MicroSet tubing, Non DEHP or Low Sorbing. Components manufactured in-house at the highest quality.

General Infusion

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



- 5ml prime volume
- 150ml burette
- Y injection port
- Anti free-flow valve

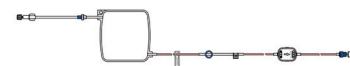


PCA Infusion

- 8ml prime volume
- 0.2mic filter
- Anti free-flow valve



- 8ml prime volume
- PCA MicroSet
- 150ml admixture bag
- 0.2mic filter
- Anti free-flow valve



TPN Infusion

- 8ml prime volume
- 1.2mic filter
- Anti free-flow valve



Dual Channel Infusion

- 12ml prime volume
- Dual channel
- Anti free-flow valve
- No drug-mix hazard



- 10ml prime volume
- Dual channel
- 0.2mic filter
- Anti free-flow valve
- No drug-mix hazard





Outpatient Clinic



Palliative Care



Homecare



Oncology



TPN



Mobile Medicine



Air Medicine



Clinical Research



Veterinary



Enteral Nutrition



Anaesthesia



PCA



Epidural