Pain Management Solutions

Caesarea Medical Electronics

BodyGuard 595 Color Vision™

Multi-Use Pain Manager

The BodyGuard 595 Color Vision™ pain manger infusion pump is specially designed for departments needing different pain management solutions at the palm of their hands. Set up to 26 infusion protocols for different color coded modes such as PCA (Blue), Epidural (Yellow) and Regional (Green). A large color screen displays all important information clearly and in color coordinated scheme according to the selected infusion mode.

Applications

- PCA
- Labor and delivery
- Post operative pain management
- Chronic pain management

Intended Use

- Intravenous
- Subcutaneous
- Epidural
- Regional
- Wound Infiltration

Features & Benefits

Modes of Operation:
- PCA - Blue scheme
- Epidural - Yellow scheme
- Regional - Green scheme

Delivers 5 Infusion Programs:
- Basal Only
- Basal & Bolus
- Bolus Only
- Auto Bolus
- PiAB

Care Areas
Care areas are differentiated by a unique color scheme to increase visibility and saftey.

Drug Library - Store up to 26 Protocols
Based on extensive clinical feedback, CME designed a library of drug protocols that offer dose error reduction and ease of use for each mode.

Programmed Interval Auto Bolus
Intelligent PiAB combines traditional patient bolus (PCEA) & programmed automatic bolus preset with custom limits by the clinician.
- **More control** - optimum dose regime with minimum intervention
- **Faster relief** - up to 1000 ml/h bolus for fast drug dispersion
- **Improved outcomes** - a feeling of control and managed pain

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

Flow Rates
Specific ranges for each application.

Wi-Fi Connectivity
Equipped with 802.11 wireless protocol that enables wireless integration to Electronic Medical Records (EMR).

High Resolution Color Screen
A large multi colored display with exceptional contrast level lets you read all relevant infusion data on a single screen.

BodyComm™ Software
Review patient history with charts and up to 2000 events log or manage pump settings on your PC.

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

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

Flexible Configuration

Inpatient/Outpatient Accessories
A docking station and lockbox are available for pole-mounted use, and a carrying pouch for home care.

Money-Saving Rechargeable Battery
A recent cost analysis estimates a savings of $600.00 per pump per year using the rechargeable battery.

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

Safety & Security

MediGuard Dose Error Reduction System
Based on patient's weight, you can set dose limits to help prevent dosing errors.

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.

Pre-Detection of Increases in Downstream Line Pressure
Helps the clinician to detect potential catheter problems at an earlier stage with on screen actual pressure monitoring.

Color-Coded Pump and Disposables
Quickly tell them apart from other devices or disposables.

3-Level Access Codes
Prevent accidental or unauthorized program changes.

Built-in Free Flow Protection
CME administration sets include an integrated anti-siphon valve to meet JCAHO guidelines.

BodyGuard 575 Color Vision™

Designed Specifically for Intravenous Opioid Analgesic Delivery

Specially designed and color-coded for safe and effective intravenous pain management. The BodyGuard 575 Color Vision™ pump delivers continuous and bolus-dose analgesic infusions safely and securely. This small, competitively-priced pump is easy to manage whether pole-mounted at bedside or used by your patients at home. Set up to 26 different infusion protocols for delivery; large color screen displays all important information clearly and in color coordinated scheme.

Applications

- Acute pain management
  - PCA
  - Post-surgery
  - Labour & delivery

Intended Use

- Intravenous
- Subcutaneous

Features & Benefits

Delivers 4 Infusion Programs:

- Basal Only
- Basal & Bolus
- Bolus Only
- Auto Bolus

Drug Library - Store up to 26 Protocols
Based on extensive clinical feedback, CME designed a library of drug protocols that offer dose error reduction and ease-of-use for each department.

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

0.1 to 100 ml/h Flow Rates
Specific range for pain management.

BodyComm™ Software
Review patient history with charts and 2000 events log or manage pump settings on your PC.

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

High Resolution Color Screen
A large multi colored display with exceptional contrast level lets you read all relevant infusion data on a single screen.

Wi-Fi Connectivity
Equipped with 802.11 wireless protocol that enables wireless integration to Electronic Medical Records (EMR).

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

Flexible Configuration

Inpatient/Outpatient Accessories
A docking station and lockbox are available for optimal pole-mounted use, and a carrying pouch for use at home.

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

Economy & Convenience

Money-Saving Rechargeable Battery
A recent cost analysis estimates a savings of $600.00 per pump per year using the rechargeable battery.

Safety & Security

MediGuard Dose Error Reduction System
Based on patient's weight, you can set dose limits to help prevent dosing errors.

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.

Pre-Detection of Increases in Downstream Line Pressure
Helps the clinician to detect potential catheter problems at an earlier stage with on screen actual pressure monitoring.

Color-Coded Pump and Disposables
Quickly and easily tell pump and set apart from other type of equipment.

3-Level Access Codes
Prevent accidental or unauthorized program changes.

Built-in Free Flow Protection
CME administration sets include an integrated anti-siphon valve to meet JCAHO guidelines.

BodyGuard 545 Color Vision™

Designed Specifically for Epidural or Intrathecal Infusions

Meet the strict demand of epidural analgesia with the next generation infusion pump specifically designed for the job. The BodyGuard 545 Color Vision™ has unique features that make even the most exacting regimen safe and simple to infuse. Set up to 26 different infusion protocols for delivery; large color screen displays all important information clearly and in color coordinated scheme.

Applications

- Labor and delivery
- Surgery
- Post-operative pain management
- Chronic pain management

Intended Use

- Epidural

Features & Benefits

Delivers 5 Infusion Programs:

- Basal Only
- Basal & Bolus
- Bolus Only
- Auto Bolus
- PiAB

Drug Library - Store up to 26 Protocols
Based on extensive clinical feedback, CME designed a library of drug protocols that offer dose error reduction and ease-of-use for each department.

Programmed Interval Auto Bolus
Intelligent PiAB combines traditional patient bolus (PCEA) & programmed automatic bolus preset with custom limits by the clinician.

- **More control** - optimum dose regime with minimum intervention
- **Faster relief** - up to 1000 ml/h bolus for fast drug dispersion
- **Improved outcomes** - a feeling of control and managed pain

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

0.1 to 30 ml/hr Flow Rates
Specific range for safe epidural use.

Wi-Fi Connectivity
Equipped with 802.11 wireless protocol that enables wireless integration to Electronic Medical Records (EMR).

BodyComm™ Software
Review patient history with charts and 2000 events log or manage pump settings on your PC.

High Resolution Color Screen
A large multi colored display with exceptional contrast level lets you read all relevant infusion data on a single screen.

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

Flexible Configuration

Inpatient/Outpatient Accessories
A docking station and lockbox are available for optimal pole-mounted use, and a carrying pouch for use at home.

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

Economy & Convenience

Money-Saving Rechargeable Battery
A recent cost analysis estimates a savings of $600.00 per pump per year using the rechargeable battery.

Safety & Security

MediGuard Dose Error Reduction System
Based on patient's weight, you can set dose limits to help prevent dosing errors.

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.

Pre-Detection of Increases in Downstream Line Pressure
Helps the clinician to detect potential catheter problems at an earlier stage with on screen actual pressure monitoring.

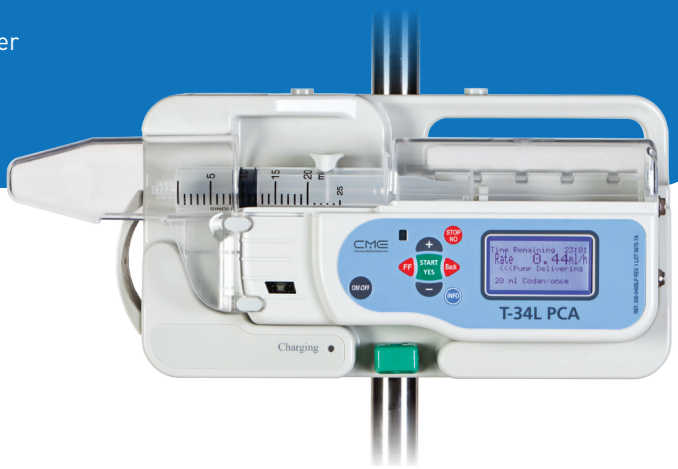
Color-Coded Pump and Disposables
Quickly and easily tell pump and set apart from other type of equipment.

3-Level Access Codes
Prevent accidental or unauthorized program changes.

Built-in Free Flow Protection
CME administration sets include an integrated anti-siphon valve to meet JCAHO guidelines.

T34L-PCA™

Stationary or portable, the T34L-PCA™ is a robust PCA syringe pump with configurable modes of operation to meet the needs of specialty pain management patients. The T34L-PCA™ offers 6 drug protocols configurable from the pump or on a PC using BodyComm software. The pump also comes with rechargeable Li-Polymer battery to allow complete autonomy.



Applications

- Acute pain management
  - PCA
  - Post-surgery
  - Labour & delivery
- Home infusion

Intended Use

- Intravenous
- Subcutaneous

Features & Benefits

Delivers 3 Infusion Programs:
- Basal Only
- Basal & Bolus
- Bolus Only

Drug Library
Configure up to 6 protocols to accommodate local policy and procedure.

Patient Range
Suitable for adults or paediatric use.

Lightweight and Compact
suitable for both bedside and ambulatory use.

Programmable Flow Rates
0.1 - 100 ml/h; PCA specific.

BodyComm™ Software
Review patient history with charts and up to 1000 events log or manage pump settings on your PC, via an IRDA cable.

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

True Portability

Size
205 x 98 x 45 mm
The T34L™ fits anywhere.

Weight
411g
Patients can carry it wherever they go.

Flexible Configuration

Inpatient/Outpatient Accessories
A docking station (photo) or pole clamp are available for pole mounted use, as well as a carrying pouch for home care.

Battery or AC-Powered
Change between battery and AC (mains) power without interrupting infusion therapy.

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

Safety & Security

Code Protected Clinician Bolus Function
Lockable program assures authorized access via 3 level access code system.

Automatic Syringe Detection
Automatically detects the syringe brand using 3 independent sensor system.

Unique algorithm detects your drugs volume to reduce dosing errors.

3 Safety Control Points
Syringe must be engaged at plunger, flange, and collar before pump will start.

Dose Titration
Operator or patient can titrate flow rate up to pre-set limit for safe, convenient dose adjustment.

Integral Protective Syringe Cover
Add lockable syringe cover and/or detector to prevent inadvertent opening.

Full Alarm Protection
Helps prevent events and instill confidence in patients.

Easy-Scroll Event Review
Press INFO key for hour-by-hour event log.

3-Level Access Codes
Prevent accidental or unauthorized program changes.

Technical Specification

	BodyGuard 595 ColorVision™	BodyGuard 575 ColorVision™	BodyGuard 545 ColorVision™	T34L - PCA™
Piston Mechanism	✓	✓	✓	
Linear Syringe Driver Mechanism				✓
Infusion Modes				
Basal Only	✓	✓	✓	✓
Basal & Bolus	✓	✓	✓	✓
Bolus Only	✓	✓	✓	✓
Auto Bolus	✓	✓	✓	
PiAB	✓		✓	
Drug Library Number of Drug Protocols	✓ 26 Protocols	✓ 26 Protocols	✓ 26 Protocols	✓ 6 Protocols
Syringe Size*				2 – 60 ml
Syringe Brands				all brands programmable
Concentration Units	mg/mcg	mg/mcg	mg/mcg	mg/mcg
Flow Rate Accuracy	± 5 %	±5 %	±5 %	±2 %
Basal Rate Range	0.1-100 ml/h; 0.1 ml/h Steps	0.1-100 ml/h; 0.1 ml/h Steps	0.1-30ml/h; 0.1 ml/h Steps	0.1-100 ml/h; 0.1 ml/h Steps
Adjustable Maximum Rate	✓	✓	✓	✓
Maximum Bolus Rate	1200 ml/h	1200 ml/h	1200 ml/h	1000 ml/h
Volume to be Infused	0.1-99.9 ml; 0.1 ml Steps 100-9999 ml; 1 ml Steps	0.1-99.9 ml; 0.1 ml Steps 100-9999 ml; 1 ml Steps	0.1-99.9 ml; 0.1 ml Steps 100-9999 ml; 1 ml Steps	
Max Syringe Travel				106 mm
KVO Rate	0 (OFF) - 5 ml/h	0 (OFF) - 5 ml/h	0 (OFF) - 5 ml/h	0(OFF) - 2 ml/h
Resume on Restart	✓	✓	✓	✓
Ultrasonic Air Sensor				
Single Bubble	OFF, 0.1 – 2 ml	0.1 – 2 ml	OFF, 0.1 – 2 ml	
Accumulated Air-in-Line	✓	✓	✓	
Occlusion Pressure		250-520 mmHg; 10mmHg Steps	350-1100 mmHg; 10mmHg Steps	100-1500 mmHg; 10mmHg Steps
PCA	250 - 520 mmHg; 10mmHg Steps			
PCEA	350– 1100 mmHg; 10mmHg Steps			
Regional	350– 1800 mmHg; 10mmHg Steps			
Pressure Sensor Mechanism	✓	✓	✓	
Actual Pressure Display & Graph	✓	✓	✓	
Post-Occlusion Bolus Reduction	✓	✓	✓	✓
Pump Alarms/Alerts				
Air/Up Occlusion	✓	✓	✓	
Down Occlusion	✓	✓	✓	✓
End Program	✓	✓	✓	✓
Near End				✓
End Syringe Travel				✓
Low Battery	✓	✓	✓	✓
End Battery	✓	✓	✓	✓
Pump Unattended	✓	✓	✓	✓
Door Open	✓	✓	✓	
Lock Mode	✓	✓	✓	✓
Missing Key	✓	✓	✓	
Check Program	✓	✓	✓	✓
Syringe Displaced				✓
Check Syringe Placement				✓
Display				
Size (W/H)	3.7x4.9 cm	3.7x4.9 cm	3.7x4.9 cm	5.1x2.8 cm
Resolution (W/H)	240x320 pixels	240x320 pixels	240x320 pixels	128x64 pixels
Power Supply 100 – 240V AC, 50/60 Hz (10W / 0.3A)	✓	✓	✓	✓
Battery				
Rechargeable Li-Polymer 7.4V 1800 mAh. Life at 125ml/h: Recharge Time (Empty to Full):	✓ Up to 17hrs 6hrs	✓ Up to 17hrs 6hrs	✓ Up to 17hrs 6hrs	✓ Up to 15hrs 6hrs
Extended-life Rechargeable Li-Polymer 7.4 V 3600 mAh. Life at 125ml/h: Recharge Time (Empty to Full):	✓ Up to 34hrs 10hrs	✓ Up to 34hrs 10hrs	✓ Up to 34hrs 10hrs	
Disposable Alkaline 9V (x2). Life at 125ml/h:	✓ Up to 12hrs	✓ Up to 12hrs	✓ Up to 12hrs	
Connectivity (Optional)				
RS232 Serial Port	✓	✓	✓	✓ (IRDA)
802.11 Wifi	✓	✓	✓	
BodyComm™ Software (Optional)	✓	✓	✓	✓
Remote Monitoring System (Optional)	✓	✓	✓	
EMR Interface	✓	✓	✓	
Classification	Type CF, Class II	Type CF, Class II	Type CF, Class II	Type CF, Class II
Moisture Protection	IPX3	IPX3	IPX3	IPX1
Dimensions; pump only (H/W/D)	112 x 89 x 40 mm	112 x 89 x 40 mm	112 x 89 x 40 mm	205 x 98 x 45 mm
Weight (with standard battery)	390g	390g	390g	411g

* Max volume infused for single infusion varies between syringe brands.
** Specification may vary depending on software version.
*** Manufacturer reserves the right to change the specifications without prior notification.

CME Accessories

Standard Life Battery
Rechargeable Li-Polymer, 1800mAh

Extended Life Battery
Rechargeable Li-Polymer, 3600mAh

9V Battery Pack
Holds two (2) 9V alkaline batteries

Wall Charger
Alternate charger for ambulatory use

Carry Bags
- Waist or shoulder pouch for 100-250ml containers
- 2 & 3 liter backpacks

Pulse Oximetry
For continuous monitoring of SpO_2 and pulse rate

Tabletop Charger
Charges a standard/extended life battery

Bolus Cable
Ergonomic bolus-dose delivery handset

Lockbox
Safely secure the pump and medication (100/250/500 ml)

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.

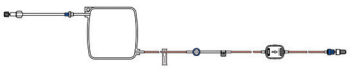
PCA Infusion

- 5ml prime volume
- Blue stripe MicroSet
- Anti free-flow valve

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

- Blue stripe MicroSet
- 4ml prime volume
- Y extension line with check valve
- Anti free-flow valve

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



Infusion from Syringe

- 5ml prime volume
- Syringe adaptor
- Anti free-flow valve

Outpatient Clinic

Palliative Care

Homecare

Oncology

TPN

Mobile Medicine

Air Medicine

Clinical Research

Veterinary

Enteral Nutrition

Anaesthesia

PCA

Epidural

PMSCat Rev.3.0

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