



## Pain Management Solutions

**CME**

Caesarea Medical Electronics

# BodyGuard 595 Color Vision™

## Multi-Use Pain Manager

The BodyGuard 595 Color Vision™ pain manager 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 4 Infusion Programs:

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

### Care Areas

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

### 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.

### Piston Mechanism

Delivers  $\pm 5\%$  accuracy and 1.8  $\mu\text{l}$  linear infusion even at the lowest flow rates.

### Flow Rates

Specific ranges for each application. See spec sheet for further details.

### 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.

### Ultrasonic Air Sensor

Provides 2 levels of air detection.

### 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.

### Rechargeable or Disposable Batteries

Choose a rechargeable Li-Polymer battery or a standard 9V (x2) disposable battery pack.

### Supports Multiple Languages

Over 20 languages available to meet your needs and preferences.

## Safety & Security

### Extended Technician Menu

Detailed technical parameters helps technicians save time on service and maintenance.

### Uses Standard Oximeter Sensors and Medication Bags

Reduce your cost of care.

### 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 check 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.

### Ultrasonic Air Sensor

Provides 2 levels of air detection.

### 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.

### Rechargeable or Disposable Batteries

Choose a rechargeable Li-Polymer battery or a standard 9V (x2) disposable battery pack.

### Supports Multiple Languages

Over 20 languages available to meet your needs and preferences.

## Economy & Convenience

### Extended Technician Menu

Detailed technical parameters helps technicians save time on service and maintenance.

### Money-Saving Rechargeable Battery

A recent cost analysis estimates a savings of \$600.00 per pump per year using the rechargeable battery.

### Uses Standard Oximeter Sensors and Medication Bags

Reduce your cost of care.

## 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 check 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 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  $\pm 5\%$  accuracy and 1.8  $\mu$ l 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).

#### Ultrasonic Air Sensor

Provides 2 levels of air detection.

#### 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.

##### Rechargeable or Disposable Batteries

Choose a rechargeable Li-Polymer battery or a standard 9V (x2) disposable battery pack.

##### Supports Multiple Languages

Over 20 languages available to meet your needs and preferences.

#### Economy & Convenience

##### Extended Technician Menu

Detailed technical parameters helps technicians save time on service and maintenance.

##### Money-Saving Rechargeable Battery

A recent cost analysis estimates a savings of \$600.00 per pump per year using the rechargeable battery.

#### Uses Standard Oximeter Sensors and Medication Bags

Reduce your cost of care.

#### 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 check 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

## 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.

### Air & Mobile Medicine

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

## True Portability

### Size

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

### Weight

411 g  
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	✓	✓	✓	
Drug Library	✓	✓	✓	✓
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
Flow Rate Accuracy	± 5 %	± 5 %	± 5 %	± 2 %
Syringe Size*				2 – 60 ml
Syringe Brands				all brands programmable
Flow Rate Range	0.1 – 100 ml/h	0.1 – 100 ml/h	0.1 – 30 ml/h	0.1 – 100 ml/h
Volume to be Infused	0.1 - 9999 ml	0.1 - 9999 ml	0.1 - 9999 ml	
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
Ultrasonic Air Sensor	Air bubble size 0.1 – 1 ml	Air bubble size 0.1 – 1 ml	Air bubble size 0.1 – 1 ml	
Occlusion Pressure		250 - 520 mmHg	350 - 1100 mmHg	100 – 1500 mmHg
PCA	250 - 520 mmHg			
PCEA	350- 1100 mmHg			
Regional	350- 1800 mmHg			
Post-Occlusion Bolus Reduction	✓	✓	✓	✓
Pump Alarms/Alerts				
Air-in-Line	✓	✓	✓	
Occlusion (up/down stream)	✓	✓	✓	✓
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				✓
Power Supply 100 – 240V AC, 50/60 Hz (10W / 0.3A)	✓	✓	✓	✓
Battery				
Rechargeable Li-Polymer 7.4V 1800 mAh. Life at 125ml/h:	✓ Up to 17hrs	✓ Up to 17hrs	✓ Up to 17hrs	✓ Up to 15hrs
Extended-life Rechargeable Li-Polymer 7.4V 3600 mAh. Life at 125ml/h:	✓ Up to 34hrs	✓ Up to 34hrs	✓ Up to 34hrs	
Disposable Alkaline 9V (x2). Life at 125ml/h:	✓ Up to 12hrs	✓ Up to 12hrs	✓ Up to 12hrs	
Connectivity (Optional)				
RS232 Serial Port	✓	✓	✓	✓
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)	390 g	390 g	390 g	411 g

\* 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



## Pulse Oximetry

For continuous monitoring of  
SpO<sub>2</sub> and pulse rate



## Extended Life Battery

Rechargeable Li-Polymer,  
3600mAh



## Tabletop Charger

Charges a standard/extended  
life battery



## 9V Battery Pack

Holds two (2) 9V alkaline  
batteries



## Bolus Cable

Ergonomic bolus-dose  
delivery handset



## Wall Charger

Alternate charger for  
ambulatory use



## Lockbox

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

## Carry Bags

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



# 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.

## PCA Infusion

- 4ml prime volume
- Blue stripe MicroSet
- Anti free-flow valve



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



- Blue stripe MicroSet
- 5ml prime volume
- Y extension line with no-  
return valve
- Anti free-flow valve



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



## Infusion from Syringe

- 4ml prime volume
- Syringe adaptor
- Anti free-flow valve





Intensive Care



Anaesthesia



PCA



Epidural



Neonatal



Outpatient Clinic



Palliative Care



Homecare



Oncology



TPN



Mobile Medicine



Air Medicine



Clinical Research



Veterinary



Enteral Nutrition