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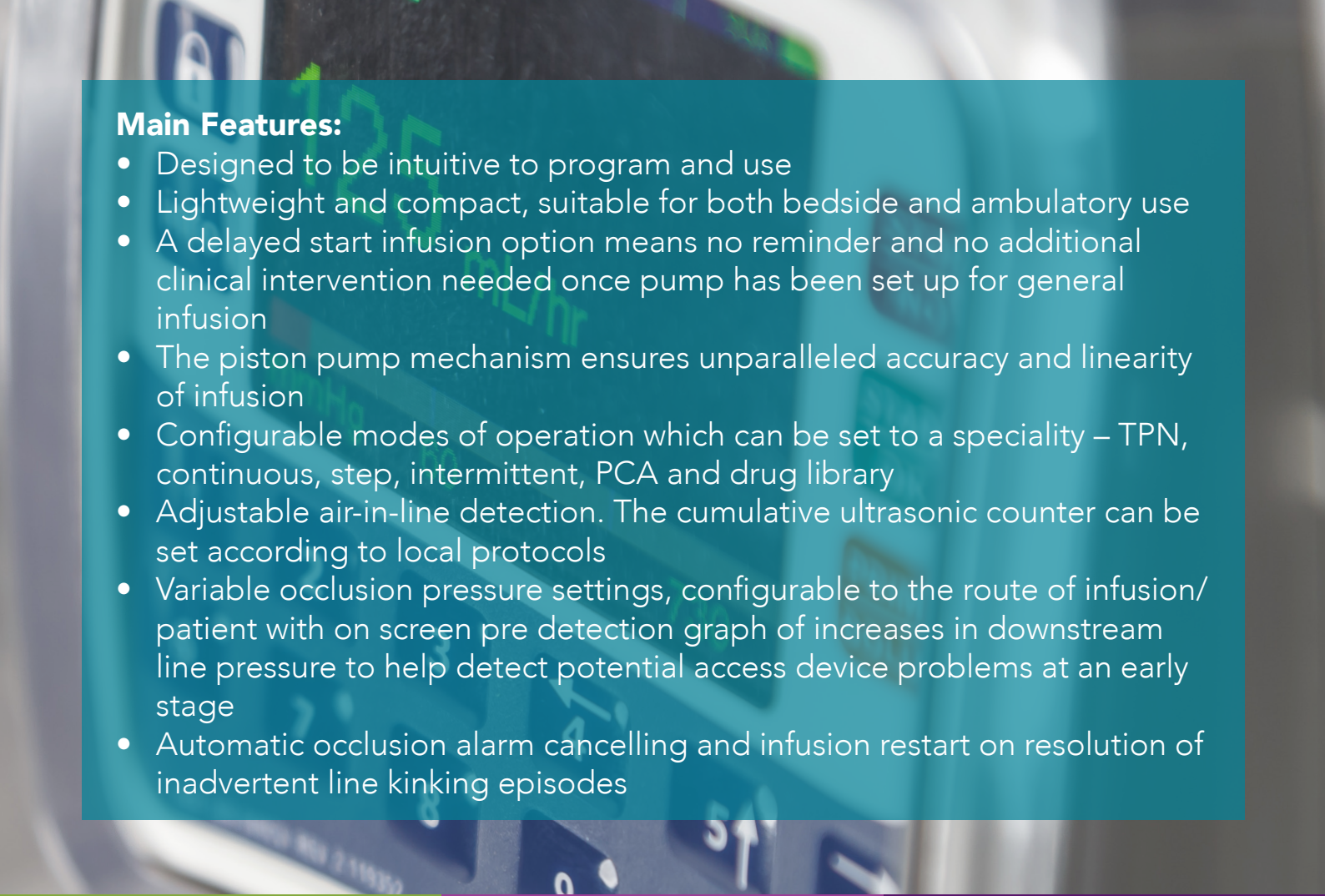
ColourVision
BODY GUARD 323
Ambulatory Infusion Pump

# BODYGUARD COLOURVISION 323™ AMBULATORY INFUSION PUMP

The BodyGuard ColourVision 323™ Ambulatory Infusion Pump is a multi-therapy pump suitable for parenteral nutrition, homecare environments and hospital infusions with six programmable modes (TPN, continuous, step, intermittent, PCA and drug library).



**Main Features:**

- Designed to be intuitive to program and use
- Lightweight and compact, suitable for both bedside and ambulatory use
- A delayed start infusion option means no reminder and no additional clinical intervention needed once pump has been set up for general infusion
- The piston pump mechanism ensures unparalleled accuracy and linearity of infusion
- Configurable modes of operation which can be set to a speciality – TPN, continuous, step, intermittent, PCA and drug library
- Adjustable air-in-line detection. The cumulative ultrasonic counter can be set according to local protocols
- Variable occlusion pressure settings, configurable to the route of infusion/ patient with on screen pre detection graph of increases in downstream line pressure to help detect potential access device problems at an early stage
- Automatic occlusion alarm cancelling and infusion restart on resolution of inadvertent line kinking episodes


# Features and Applications

**Safety Features:**

- Post Occlusion Bolus Reduction System will safely release pressure from the line, following an occlusion, without administering a post occlusion bolus
- Built-in event log automatically records accurate and reliable data on pump
- Fixed or variable code protected programmes that are configured and locked into the pump memory and can only be accessed by authorised personnel or technicians
- Lockable keypad to prevent inadvertent key presses
- Optional programmable drug library reduces clinician error whilst reducing treatment set-up time. Drugs for specific care units can be enabled to easily navigate your relevant drug list

**Modes of Operation:**

- TPN
- Continuous
- Step
- Intermittent
- PCA
- Drug library


**Intended Use:**
The BodyGuard ColourVision 323™ Ambulatory Infusion Pump is designed for infusion of medications or fluids requiring continuous or intermittent delivery at precisely-controlled infusion rates through clinically acceptable routes of administration, including but not limited to:

- Intravenous
- Subcutaneous
- Percutaneous
- Intra-arterial

**Common Applications:**
- Parenteral nutrition (PN)
- Enzyme replacement therapy
- Immunology
- Maintenence of general fluids or medication

Speak to our team who have the knowledge and experience to support you in choosing the right medical infusion products to meet your requirements.

# Accessories and Consumables

**Accessories**

- Carry Pouch 100ml
- Carry Pouch 250ml/500ml
- Blue 3 Litre Rucksack
- Black 2 Litre Rucksack
- Grey 2 Litre Rucksack
- Pink 2 Litre Rucksack
- Wheeled Rucksack
- Disposable Battery Compartment
- Non LED Pole Mount Charger
- External Battery Charger
- Standard Life Battery 1800mAh
- Extended Life Battery 3600mAh
- 13A Plug Lead 1.8m (Straight)
- BodyComm® Kit
- UK Wall Charger - 8.2V


The BodyGuard ColourVision 323™ Ambulatory Infusion Pump has a range of dedicated administration sets. These are optional 1.2 and 0.2 micron filter with optional manual priming valve. All sets are non-DEHP[1] PVC plasticized with TOTM[2], are BSE-TSE[3] free, latex free and EVA[4] free. Length and priming volume are approximate.

For more information on administration sets or for product codes, please visit our website; cmemedical.co.uk. You can also contact our Customer Support team on 01253 206700 or email customersupport@cmemedical.co.uk

**References**

1. Bis(2-ethylhexyl) phthalate, 2. Tris (2-Ethylhexyl) Trimellitate, 3. Bovine spongiform encephalopathy, 4. Ethylene-vinyl acetate.

# Ongoing Support

**Clinical Support Network**
We cover the UK and work in partnership with healthcare providers to help ensure successful pump conversions and deliver device user training programmes. All our Clinical Support Specialists have backgrounds in areas such as critical care, pain management, theatre and recovery, community and palliative care.

**Technical Support**
Our Technical Support team comprises of experienced medtech engineers who ensure quality servicing, maintenance and repair of our products. Please contact our team to discuss the different levels of service support available to best suit your needs.

**Quality Assurance and Regulatory Support**
Our team of experienced Quality Assurance professionals can resolve customer complaints, conduct first line testing (in conjunction with our Technical Support team), whilst managing relations with local regulatory bodies, supplier and quality audits and regulatory approvals.

**Regional Field Sales Support**
When you want to make informed choices about which products will meet the needs of your service and patients, our team has the knowledge and experience to talk to you, wherever you are in the UK or Ireland.

**Customer Support**
Whether you are a clinician, an engineer or a patient using CME Medical products or services, our team of experienced customer support professionals are available to deal with your enquiry.

# Technical Specification

| | |
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| **Device type** | Piston pump |
| **Flow rate** | PCA - 0ml to 100 ml/hr in 0.1ml, 100ml to 1200ml/hr in 1ml increments<br>All other programs - 0.1ml to 100ml/hr in 0.1ml, 100ml to 1200ml/hr in 1ml increments |
| **Priming rate** | 1200ml/hr |
| **Total infused volume** | PCA - 0.1ml to 1,000ml<br>Continuous, TPN, Intermittent - 0.1ml to 9999ml<br>25 Steps - 0.1ml to 9999ml for each step<br>Accumulated volume for all steps - up to 10 litres |
| **Total time setting** | 100 hours |
| **Pump accuracy** | +/- 5% |
| **KVO rate** | 0ml to 20ml/hr |
| **Air sensor** | Ultrasonic, adjustable air bubble size<br>Adjustable air bubble size 0.01ml-2ml for single bubble detection<br>Accumulated air-in-line detection 2ml over 15 minutes |
| **Maximum pressure** | Adjustable 100mmHg to 1500mmHg (in 10mmHg increments) |
| **Time to alarm for maximum occlusion pressure** | 1hr and 45min at a rate of 0.1ml/hr, 30min at a rate of 1ml/hr |
| **Power supply** | 100-240 VAC, 50/60Hz. 0.3A max |


| | |
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| **Battery** | Type CF Equipment, degree of protection against electrical shock class II equipment, IPX3 protection against ingress of water |
| **Battery operation at 125 ml/hr** | 15 hours (rechargeable) |
| **Battery charging** | Automatic when clicked into the charger that is connected to an AC power source. Six hours needed to charge a fully depleted battery |
| **Alarms** | Air in line, down occlusion, pump unattended, end program, low battery, end battery, door open, fatal error, lock mode, lock out mode, missing key |
| **Software connectivity** | BodyComm (optional)<br>Remote monitoring system (optional) |
| **Classification** | Type CF Equipment (degree of protection against electrical shock), Class II |
| **Moisture protection** | IPX3 |
| **Housing** | PC/ABS (fire retardant) |
| **Weight** | 390g (with battery) |
| **Electrical safety** | Complies with EN60601-1 (Medical Electrical Equipment Safety), IEC60601-2-24 (infusion pumps and controllers), IEC60601-1-4 (Programmable Electrical Medical System) |
| **Standards** | Manufactured in accordance to ISO 9001<br>CE Marked (in accordance with the Medical Devices Directive 93/42/EEC) |
| **EMC** | Designed to be in compliance with EN 60601-1 (safety) and IEC 601-1-2 (EMC) |

# Technical Specification (Continued)

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| **Aviation environment** | Pull tests based on FAR (Federal Aviation Regulations) 29, 27, 25, 23<br>Tested in accordance to RTCA/DO-160 Guidelines |
| **Environmental specifications** | **Non operating conditions (transportation and storage):** |
| **Temperature** | -25°C to +50°C (-13°F to +122°F) |
| **Humidity** | 5% to 100% R.H., non-condensing |
| **Air pressure** | 48kPa to 110kPa |
| **Operating conditions** | **The system may not meet all performance specifications if operated outside of the following conditions:** |
| **Temperature** | +18°C to +45°C (+59°F to +113°F) |
| **Humidity** | 20% to 90% R.H. at +40°C, non-condensing |
| **Air pressure** | 70kPa to 110kPa |
| **IV administration sets** | Dedicated MicroSet or BodySet IV administration sets with anti-siphin valve |


# Notes


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Say hello!

Ref: MD001