



BD Alaris System

A modular smart infusion pump system with Guardrails™ Dose Error Reduction Software (DERS) and EMR interoperability for safe, connected medication delivery.

<https://www.bd.com>

Overview

The BD Alaris™ System is a comprehensive, modular infusion system designed to enhance patient safety and streamline clinical workflows in acute care settings. It is built around a centralized user interface, the BD Alaris™ PC Unit, which can connect up to four independent modules, including Large Volume Pump (LVP), Syringe, Patient-Controlled Analgesia (PCA), and EtCO2 respiratory monitoring modules, making it the only system to offer multiple modalities on one platform.

The system's core software component is the **BD Alaris™ Guardrails™ Suite MX Safety software**, which acts as a Dose Error Reduction Software (DERS). This software contains customizable drug libraries with hard and soft limits, providing alerts to clinicians when an infusion is outside of the hospital-defined normal range, thereby helping to prevent infusion-related medication errors.

Key to its enterprise value is the **BD Alaris™ EMR Interoperability** solution, which provides seamless, two-way wireless connectivity with major Electronic Medical Records (EMRs) like EpicCare EHR and Cerner Millennium EMR. This integration allows for automatic pump programming from the physician's order and sends infusion data back to the patient's record, significantly reducing manual programming steps and improving documentation accuracy.

For quality improvement, the system integrates with **BD HealthSight™ Medication Safety Analytics**, a hosted data solution that offers intuitive access to common KPIs, automated daily monitoring, and performance evaluation across multiple facilities. The system is used across various care settings, including Oncology, Critical Care/ICU, Med/Surg, and Neonatal/Pediatric Intensive Care Units (NICU/PICU).

Key Features

- Guardrails Suite MX Safety Software (DERS)
- EMR Interoperability (Epic/Cerner)
- Modular Infusion Platform (LVP, Syringe, PCA, EtCO2)
- BD HealthSight Medication Safety Analytics
- Alaris Auto-ID Barcoding
- Wireless Connectivity and Data Transfer
- Continuous Respiratory Monitoring (EtCO2)

Pricing

Model: enterprise

Pricing is not publicly disclosed and is handled via enterprise-level quote requests. The system requires the purchase of dedicated hardware (PCU and modules) and proprietary disposable infusion sets.

Target Company Size: medium, enterprise

Integrations

EpicCare EHR, Cerner Millennium EMR

Compliance & Certifications

FDA 510(k) Clearance

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