

smiths medical
cadd®



CADD®-Solis Infusion System

One pain management solution for the entire hospital

CADD[®]-Solis Infusion System

Modern portable design with wireless connectivity and versatility for all pain management

Multiple delivery methods delivered
individually or in combination as required:

- Continuous rate
- Programmed Intermittent Bolus (PIB)
- Patient Controlled Analgesia (PCA)
- Patient Controlled Epidural Analgesia (PCEA)
- Clinician Bolus



IV PCA

Intravenous pain management with the following delivery methods individually or in combination with each other:

- Continuous rate
- PCA dose
- Clinician bolus
- Dosing with PCA dose key or remote dose cord



Epidural

Epidural and subarachnoid administration in conjunction with Programmed Intermittent Bolus (PIB) and/or PCEA.



Peripheral Nerve Block and Surgical Site Infusions

Administration of peripheral nerve blocks and surgical site infusion with the ability to program PCA and/or Programmed Intermittent Bolus (PIB). Portable design supports patient ambulation.

Standardize to a single platform and differentiate therapies to support patient safety



Ability to segment your fleet by grey or yellow pump face plates



CADD® products with NRFit® connectors help reduce the risk of misconnections

Color-coded pump screens allow you to easily differentiate therapies

100 mL	Running
IV PCA Post Surgical HYDROmorphine 0.2 mg/mL	
Home Press 'select' to edit	
Continuous Rate	0.2 mg/hr
PCA Dose	0.1 mg
PCA Lockout	5 Min
1 Hour Limit	1.2 mg
Reports	Tasks

50 mL	Stopped
IV PCA Standard dose Morphine 1 mg/mL	
Home Press 'select' to edit	
Continuous Rate	1 mg/hr
PCA Dose	0.5 mg
PCA Lockout	15 Min
1 Hour Limit	2.5 mg
Reports	Tasks

100 mL	Running
Epidural Labor and Delivery Fentanyl/Bupivacaine mL	
Home Press 'select' to edit	
Continuous Rate	8 mL/hr
PCA Dose	4 mL
PCA Lockout	10 Min
1 Hour Limit	20 mL
Reports	Tasks

50 mL	Running
Peripheral Nerve Block TKA 0.2% Ropivacaine 1 mg/mL	
Home Press 'select' to edit	
Continuous Rate	6 mL/hr
PCA Dose	0 mL
Reservoir Vol.	250 mL
Reports	Tasks

50 mL	Stopped
Continuous 3:21 PM Chemo - 4 Day Infusion 5-FU (4-day) in 50mL mL	
<ul style="list-style-type: none"> ✓ Continuous Rate 1 mL/hr ✓ KVO Rate 0 mL/hr ✓ Reservoir Vol. 50 mL 	
'Accept Value', or press 'select' to edit	
Exit	Accept Value

Smart pump features support patient safety

- On-screen color graphs and trending data provide immediate patient assessment and helps support the clinician at bedside
- On-board library provides up to 500 protocols that can be edited within the safety limits for specific patient needs
- Pump programming errors are prevented by:
 - Soft and hard maximum and minimum programming limits
 - Tall man/Short man with no trailing zeroes
 - Support for full drug names



Dosing graph

Delivery chart

Features of the CADD®-Solis Ambulatory Infusion System



Immediate visual indication of pump status with color-coded status bar

Drug protocol displayed on Protocol Bar with selected Therapy, Qualifier and Drug

Navigation with soft key interface

Eliminate numeric key press errors with scrolling keys

Wireless Communication Module includes WiFi radio, antennae, and rechargeable battery pack

Wireless Status Indicator ensures pump is connected to the network when wireless communication module is installed

Support security with keypad lock status indicator

Home screen displays patient-specific delivery parameters with unit of measure

Secure disposable attachment with cassette latch and key lock

PCA dosing with PCA dose key or handheld remote dose cord

Unique CADD™ medication cassette reservoirs

- Durable, self-contained reservoirs lock directly onto the pumps to provide medication security
- The pump and reservoir maintain a small footprint
- Multiple sizes and color choices for therapy flexibility and visual identification
- Flow stop feature helps prevent medication free-flow
- Available with NRFit® connectors to help reduce the risk of misconnections



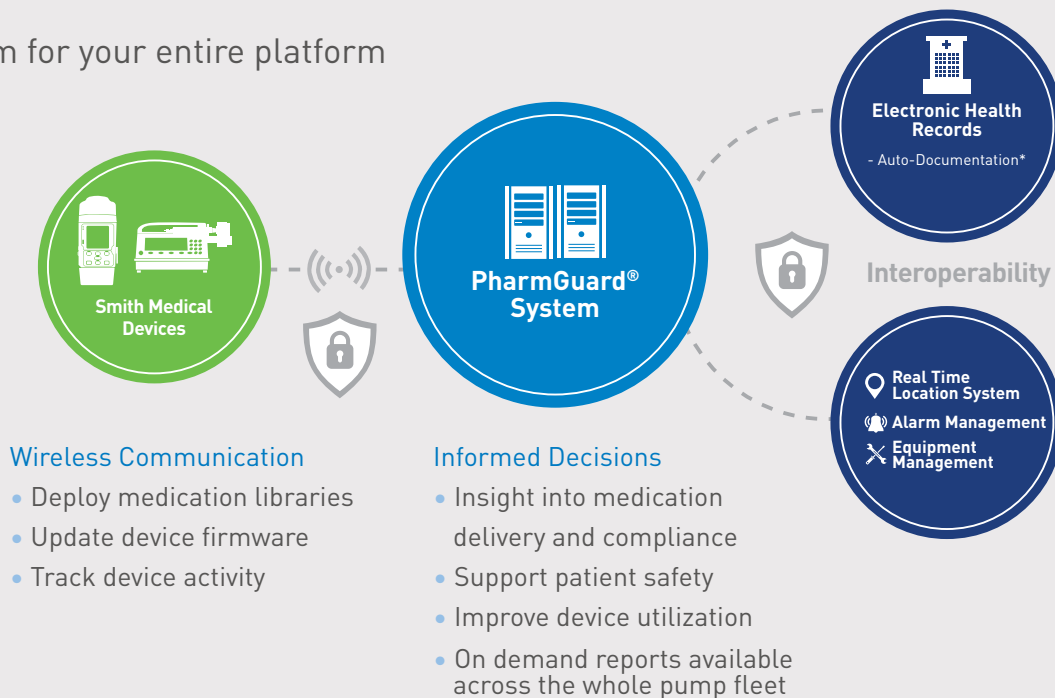
Continuity of care with the CADD®-Solis VIP pump for at home use

- Small ambulatory system supports patient mobility
- Intuitive user interface may help to reduce patient training time¹
- Help screens assist patients with troubleshooting and may reduce clinician visits¹



PharmGuard® Infusion Management System

One system for your entire platform



* Subject to availability

1. Brown, Thomas, D., Michael, Martha, Grady, David S., Implementation of Smart Pump Technology with Home Infusion Providers: An Assessment of Clinician Workflow and Patient Satisfaction. Journal of Infusion Nursing. 2018, Nov/Dec., Vol. 41, No. 6.

SPECIFICATIONS & REQUIREMENTS



CADD®-Solis Ambulatory Infusion Pump Specifications

Indications	Intravenous, intra-arterial, subcutaneous, intraperitoneal, in close proximity to nerves, into an intraoperative site (soft tissue, body cavity/surgical wound site), epidural space, or subarachnoid space infusion. The pump is intended for therapies that require a continuous rate of infusion, and/or an intermittent bolus, and/or with patient-controlled demand doses, and/or clinician boluses.
Pump Size	1.6 in. x 4 in. x 5 in. excluding cassette or other accessories. 1.6 in. x 4 in. x 7 in. with CM attached
Screen Size	2.12 in. x 2.12 in. (320 pixels x 320 pixels)
Weight	21 oz. (595g) including 4 AA alkaline batteries, excluding other accessories.
On-board Protocol Library	Stores up to 500 protocols
Security	Cassette/keypad lock and three customizable security access levels: keypad code; clinician code; administrator code
Accuracy	+/- 6% (nominal)
Delivery Methods	Continuous rate; PCA dose; Clinician bolus; Intermittent Bolus
Reservoir Volume	0 to 9999 mL; programmable in 1 mL increments, displayed in 0.1 mL increments
Units	Milliliters (mL), milligrams (mg), micrograms (mcg)



Wireless Communication Module Specifications

Battery type	Rechargeable Lithium-ion battery (2 cells) Equivalent Lithium content <1.6 g
Battery capacity	18.7 Wh (when fully charged)
Battery output	3.6V (nominal)
Rechargeable battery weight	<100 g
Product battery life	400 full cycles (charge / discharge) at room temperature, 23°C (73°F) Battery discharge cycle of 11 hours at nominal condition
Maximum charge time (low battery to full charge)	10 hours when plugged into AC Adapter
Communication Module Wireless Range	36.5 meters (120 feet) line of sight operation with access point

802.11 a/b/g/n Network Configurations Supported

Network Mode	Select the network mode to match the network: 802.11 a/b/g/n 802.11 b/g/n 802.11 a/n
Authentication Mode	OPEN WPA-ENT WPA2-ENT WPA-PSK WPA2-PSK
EAP Mode	None EAP-TLS (v1.0 and v1.2) EAP-TTLS EAP-PEAPV0 (PEAP with MS-CHAP v2) EAP-PEAP v1 (PEAP with GTC) EAP-LEAP EAP-FAST NOTE: EAP mode is not applicable for OPEN, WPA-PSK, WPA2-PSK authentication mode
Encryption Mode	The encryption mode for the network: TKIP CCMP TKIP/CCMP None
Wireless Encryption Key	You can either enter a key consisting of 64 characters or a passphrase consisting of between 8 and 63 printable ASCII characters NOTE: This field is not used with Enterprise authentication modes
Identity	Enter your identity (if necessary)
Client Certification	Client Certificate: Browse to select your client certificate file (in .pem format with maximum size of 8000 bytes) Client Key: Browse to select your client key file (in .pem format with maximum size of 4000 bytes) Private Key Password: Enter your private key password Certificate of Authority: Browse to select your certification authority certificate file (in .pem format with maximum size of 8000 bytes)
Certificates	SSL SHA-1 SSL SHA-2

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