

## Alert, Alarms and Troubleshooting

When an **ALERT** is activated:

The infusion continues, LED indicator light remains green, intermittent beeps are heard approx. every 3/4 minutes and a screen message alternates with the infusion running screen.

When an **ALARM** is activated:

The infusion stops, the LED indicator light turns red, a continuous audible alarm activates and a screen message displays indicating the cause.

Press **STOP/NO** to mute alarms. Follow screen prompts to manage alerts and alarms.

Screen	Description
<b>Low Battery</b> Connect to Charger	Alert: Approximately 30 minutes of battery life remaining. Connect to mains power.
<b>Near End</b>	Alert: Bag nearly empty, approximately 5mL volume remaining. Prepare new bag, if applicable.
<b>Bolus Handset</b> Disconnected. Patient Bolus Unavailable	Alert: Bolus handset disconnection. Re-connect handset to pump.
<b>Air/Up Occlusion</b> Check for air/occlusion	Air in set or the set is occluded between the infusion bag and pump.
<b>Down Occlusion</b> Check set/access	The set or access device is occluded (below pump).
<b>Pump Paused</b> Too Long	Pump has been left in the STOP state for more than 2 minutes with no key presses. Press <b>START/OK</b> to resume, press <b>STOP/NO</b> to continue pause or press and hold down <b>STOP/NO</b> for menu.
<b>Door Open</b> Close Door	The pump door has opened during infusion. Check set is loaded correctly, close door and re-start infusion.
<b>End Battery</b> Connect to Charger	Battery power is depleted. Connect to mains power immediately. Place pump in charger or use the battery cable to connect to the DC socket.
<b>End of Infusion</b>	Current infusion has completed. Either discontinue use or change bag to start a new protocol.
<b>Missing Set Key</b> Load Set & Close Door	The set is loaded incorrectly or a non-proprietary set is loaded.
<b>Restart Pump</b> Switch off & on Error xx	A technical/Internal malfunction has occurred. Follow screen prompts. If the problem cannot be rectified, remove from patient use.
<b>Patient Bolus available in:</b> 00:05 <b>Auto Bolus available in:</b> 00:30	Screen prompt: When an Auto bolus is being delivered, the pump beeps intermittently and a screen message displays.

## ColourVision BodyGuard™

### Pain Management Pump

### Programmed Intermittent Bolus (PIB) User Reference Guide



## Keypad Lock

With the keypad lock activated, the user can STOP and START an infusion, and with the infusion running use the INFO key to review infusion status.

Users cannot (for example) power off, rate change, deliver a clinician activated bolus or go to the main menu with the keypad lock activated.

## Accessing Protocol/Infusion Summary

With the infusion/protocol running, press the **INFO** key repeatedly to display:

Press 1 - Shift totals: elapsed and operation time, boluses attempted/delivered, bolus volume and total volume.

Press 2 - Current infusion: volume remaining, volume infused, mL/hour rate and total infused.

Press 3 - Bolus summary: patient attempted/delivered. Bolus dose, doses given, lockout time. Clinician bolus.

Press 4 - Protocol information (#1): protocol title, bag volume, current rate and maximum rate.

Press 5 - Protocol information (#2): protocol title, patient bolus, maximum bolus, lockout time and hour limit.

Press 6 - Battery level: graph format of battery status (%).

Press 7 - Time and date: event log time and date.

Press 8 - Pump identification: pump name, serial number, pump production date and software version.

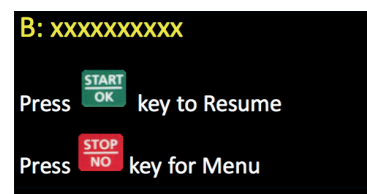
Press 9 - Bolus Remaining: difference between bolus mls delivered from requested.

## Notes

- Refer to Operating Manual for full operating instructions.
- Users must have undertaken training before operating this device.
- Screen information/sequences may vary with different software versions and local pump configuration.
- Always follow screen prompts and before pressing keys to proceed, ensure selections made correspond with what is required.

## Start a New Infusion

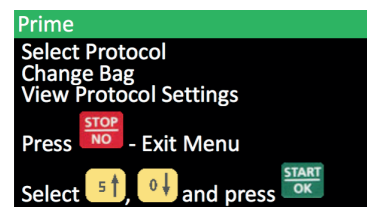
1. Prepare bag and set as per local policy. Load administration set into the pump.
2. To power on press and hold down **ON/OFF** key, pump settings display then the screen displays:



3. To go to main menu, press **STOP/NO**.



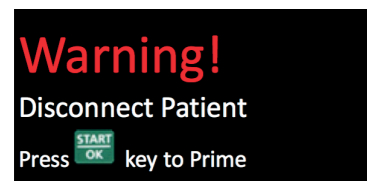
- Enter code, press **START/OK**.



4. Select prime, press **START/OK**.



- Enter code, press **START/OK**.



- Ensure the set is disconnected, press **START/OK**.



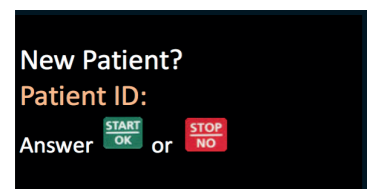
- On completion, the next screen displays.



5. To select protocol, press **START/OK**.



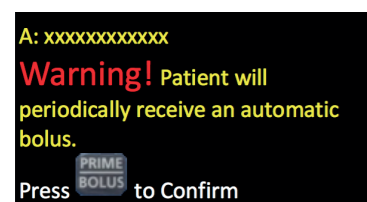
- Enter code, press **START/OK**.



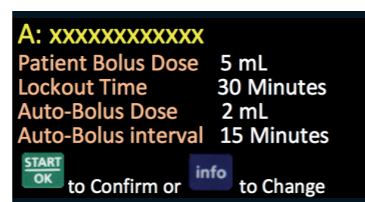
6. Enter a numerical ID number (optional), press **START/OK**.



7. Select protocol (use scroll keys if necessary), press **START/OK**.

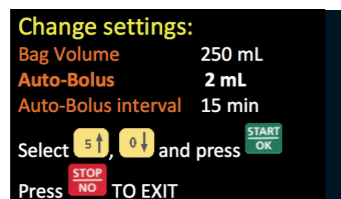


8. To confirm selection of auto bolus protocol, press **PRIME/BOLUS**.



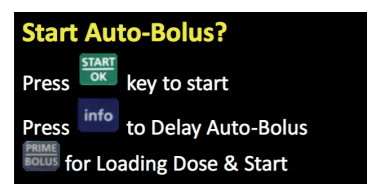
9. Review protocol settings. To start protocol press **START/OK**. To change, press **INFO**.

10. When **INFO** is pressed, the user can change settings:



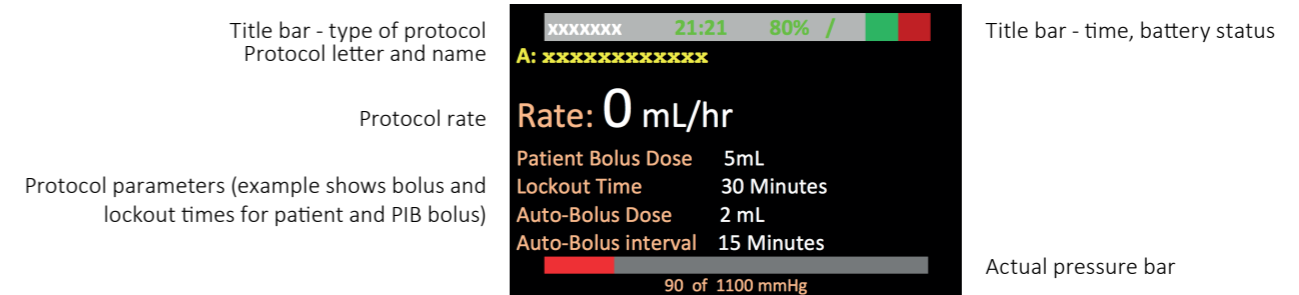
- Use numerical keypad to select the option required, press **START/OK** then follow screen prompts.
- When ready, press **STOP/NO** to return to the review protocol settings screen.

11. Attach the administration set to the correct patient access port (unclamp if necessary).



12. Select option required and follow screen prompts.
  - Press **START/OK** to give auto bolus and commence protocol. Press **INFO** to delay auto-bolus, follow screen prompts to commence protocol.
  - Press **PRIME/BOLUS** to deliver a loading dose (CAB), follow screen prompts, enter access code to commence protocol.

## Infusion Screen Running



### Actual pressure

The bar displays real time in-line pressure. Units of measure, start value, and peak value are subject to the pump pressure settings. The bar is divided to 3 parts. Actual pressure is displayed as red fill. When the pressure rises from one segment to the next a beep will sound. If the pressure reaches the end value (1100 mmHg in the above example) the pressure alarm will activate.

### Basal Rate Change During Delivery (Rate Titration)

Remember to de-activate and activate keypad lock if necessary.

1. With the infusion in progress, enter the new rate using the numerical keypad, press **START/OK**.
2. Enter the relevant access code using the numerical keypad, press **START/YES**.
3. Check that the new basal mL/hour rate displays on the infusion running screen.

### Changing Bolus Dose and/or Lock Out Time

Remember to de-activate and activate keypad lock if necessary.

1. Press **PRIME/BOLUS**.
2. Select either "Change Bolus Dose" or "Change Lockout Time", press **START/OK**.
3. Enter values required using the numerical keypad, press **START/OK**.
4. Enter relevant code using the numerical keypad, press **START/OK**.
5. Check change complete on infusion running screen.

### Bag Change

Remember to de-activate and activate keypad lock if necessary.

Ensure set is clamped/disconnected from patient's access device.

- If end infusion alarm has activated the keypad lock is automatically removed. To confirm end of infusion and mute alarm, press **STOP/NO**.

To record VTBI and VI, press **INFO**.

- Follow screen prompts to return to main menu, complete bag change, re-connect/unclamp set and resume the protocol.

Note: When a protocol is resumed and the protocol summary displays, the new VTBI and the total of all volume infused to date out of previous bag(s) will display.

### Clinician Bolus (Designated Users Only)

Remember to de-activate and activate keypad lock if necessary.

1. To stop the infusion, press **STOP/NO**.
2. Press **PRIME/BOLUS**.
3. Enter Clinician Bolus access code using the numerical keypad, press **START/OK**.
4. Follow on-screen prompt to enter the bolus dose required and to commence delivery, press **START/OK** Press **STOP/NO** at any time to stop delivery.

On completion of Clinician Bolus delivery, the infusion recommences.