Dàna-i

Quick guide

INSULIN PUMP | Dàna-i
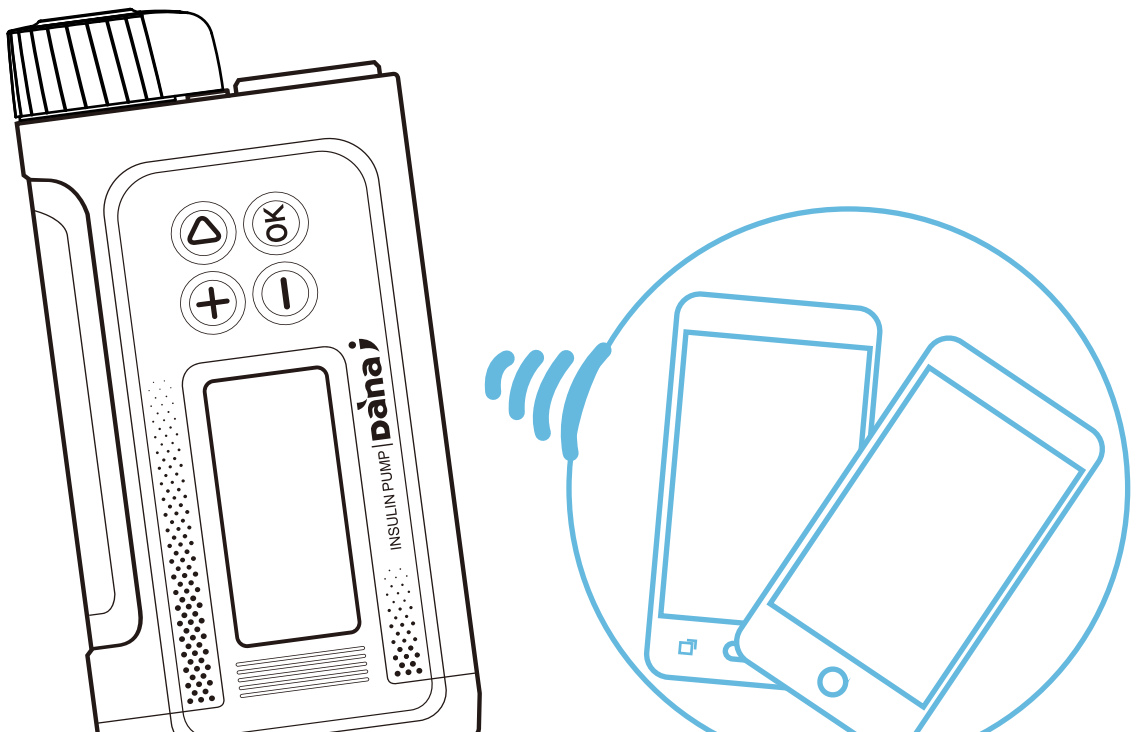
This quick reference guide is an easy to follow step by step guide to the most common and frequently used features within the Diabecare DANA-i Insulin Pump.

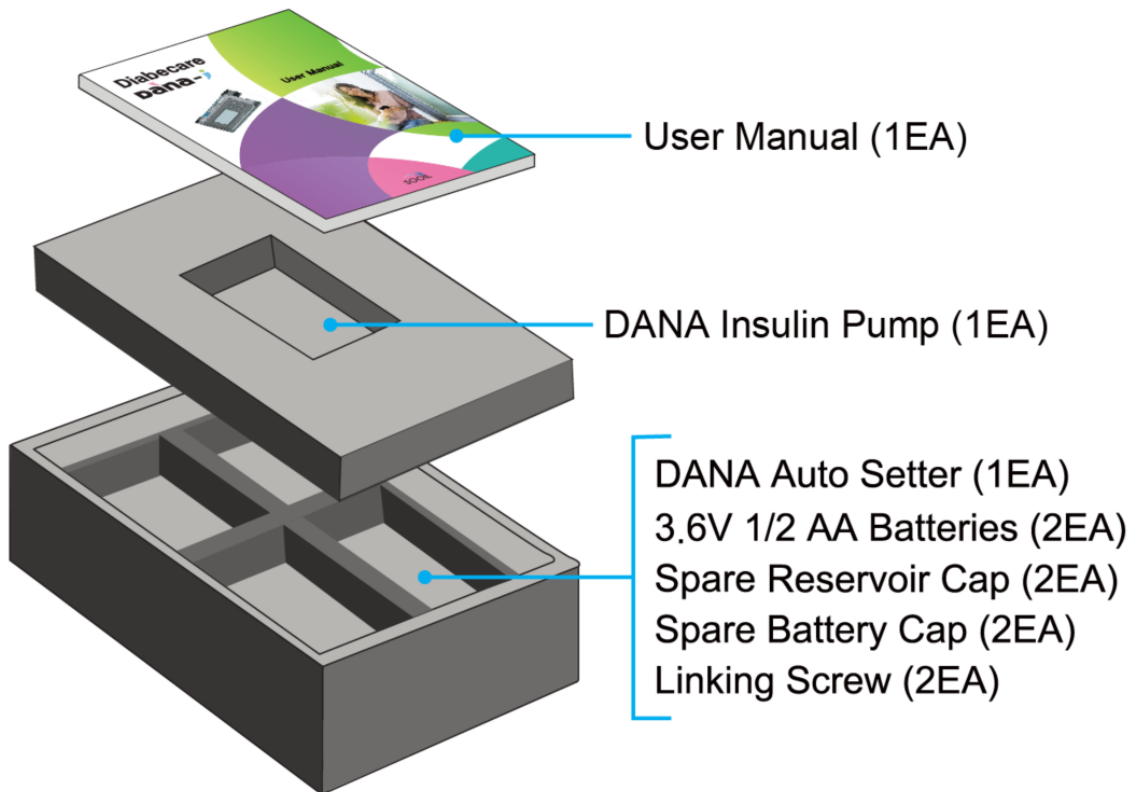The 'Quick Reference Guide' (QRG) is supplementary to the IFU (Instruction For Use).

Warning All precautions and warnings within the IFU must be read and adhered to always. Read the entire IFU before commencing or using the Diabecare DANA-i Insulin Pump.

Refer to the DANA-i Manual for advanced features instruction and more complex operation of the Diabecare DANA-i Insulin Pump.

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Open the pump kit

User Manual (1EA)

DANA Insulin Pump (1EA)

DANA Auto Setter (1EA)
3.6V 1/2 AA Batteries (2EA)
Spare Reservoir Cap (2EA)
Spare Battery Cap (2EA)
Linking Screw (2EA)

Notic

- If you are aware of the problems in your packages, contact its suppliers or distributors.
- Additional accessories may be purchased separately.

Getting to know the pumps

Inserting Reservoir

Inserting Battery

Reservoir Cap

The reservoir with
Linking screw is inserted.
Turn the cap clockwise
to open.

Battery Cap

The battery is inserted.
Turn the cap clockwise
to open.

Control panel

Includes the four buttons are
used to navigate the menus
and adjust settings.

Reservoir Window

Reservoir volume can be
visually verified.

LCD screen

Displays the pump status,
system features and system
message.

⊕ Press to increase values

⊖ Press to decrease values / return to
previous screen

▷ Press to move to the next menu option

OK Press to select or confirm

Notice

Refer to the Diabecare DANA-i User Manual, Chapter 2.1

Inserting a battery and turning the pump on

**Step 1.** Prepare the AAA batteries for Pumps

Recommend using an 1.5V AAA Energizer® or Duracell® Alkaline batteries. The lithium batteries are not recommended as the battery level indicator may not be accurate.
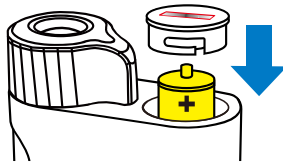
Step 2. Insert the battery into the pumps

Use a coin to enable easy turning of the battery cap and turn the cap to the clockwise 45 degrees. And insert the battery with the positive (+) at top and (-) at bottom.
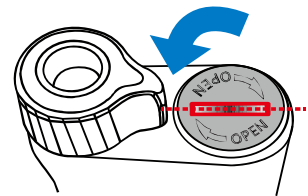
Step 3. Replace the battery cap.

Replace the battery cap aligned with locating lugs, turning 45 degrees counter clock-wise to secure and lock. Completed when the battery cap groove is aligned straight with the reservoir cap.
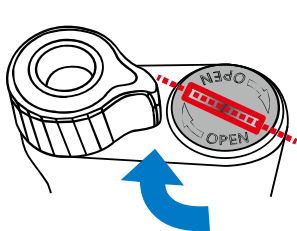
Open the battery cap   Insert the battey   Replace the battery cap

Notice

- Refer to the Diabecare DANA-i User Manual, Chapter 2.2
- Do not overtighten the battery cap as this could damage the pump or battery cap.
- Lock the battery cap to prevent water/ingress from entering the pump.

Start using the pumps

If you insert the batteries, the loading screen will display as below,

And then the Time and Date set screen might display depending on the manufacturing date.

Offsets from UTC and Local time

General time in your region and displayed time on your smartphone

TIMEZONE: 00
UTC TIME
01/01/2019   00:00
LOCAL TIME
01/01/2019   00:00

Universal Time Coordinated(UTC) is the primary time standard by which the world regulates clock and time.

You should set the only the **LOCAL TIME.** The **TIMEZONE** is pre-set by the manufacturer according to the country.

Notice

- Refer to the Diabecare DANA-i User Manual, Chapter 3.1
- Be sure to set the Time and Date before using the pumps.
- Setting the correct time and date on your pump is necessary to ensure the correct basal insulin delievery and to keep an accurate record of pump functions.
- You may need to change the TIMEZONE if you travel to a different time zone.
- If the TIME ZONE is different, contact its suppliers or distributors.
- Time and Date could be set only in Doctor Mode, contact your distributor or healthcare professional.

Pump initial screen

This image shows what is displayed on the DANA-i home/initial screen.
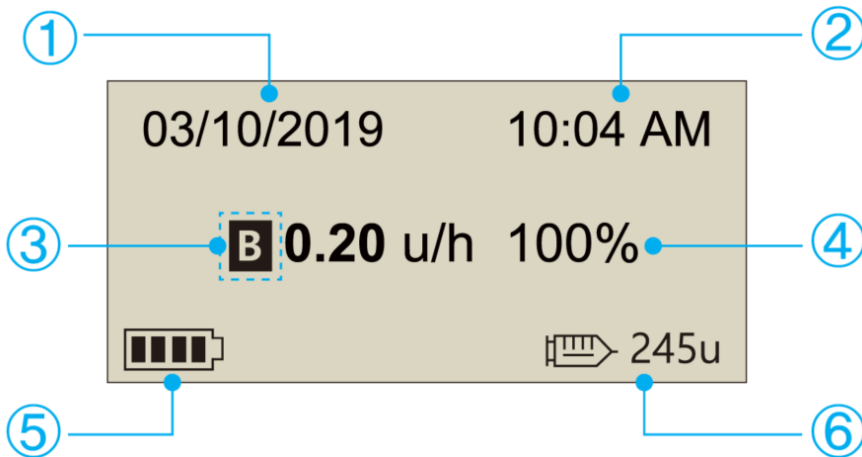
① Date	② Current Time
③ Current basal rate in units per hour. The flashing **B** indicates the basal is active	④ Percentage of basal rate. (100% is normal basal delivery without a temporary rate active)
⑤ Battery Status	⑥ Insulin remaining volume

Notice

Refer to the Diabecare DANA-i User Manual, Chapter 2.3

Loading an Insulin Reservoir

Preparation - things to get ready before starting

- Analog Insulin (room temperature)
- DANA Reservoir (3ml)
- Auto Setter
- Linking Screw
- DANA Infusion Set and AlcohoSwab (if required)
- DANA Insulin Pump

Procedure

1. Remove the round cap at the bottom (back) end of the Insulin Reservoir and discard. Remove the thin white plastic cap from within the reservoir (place aside for using once full of insulin).

2. Holding the reservoir plunger barrel firmly – attach the linking screw, ensure that it fits firmly and the teeth are aligned and engaged.

3. Push the linking screw (and barrel of the reservoir) to the top – ready to fill with insulin. This process ensures that the double O-ring is moving freely and will not cause an occlusion within the pump.

4. Remove the needle protective cap and insert into the 3ml vial of room temperature insulin.

5. Using the needle protective cap – push the insulin plunger down so that the insulin is slowly pushed into the DANA 3ml reservoir. Draw the last bit out by pulling on the linking screw and barrel.

6. Place the clear needle protective cover back onto the needle. Gently tap the reservoir with your finger in order to make the air bubbles rise to the top of the reservoir. And push the plunger up gently to remove the air bubbles from the reservoir.

7. Twist and pull to remove the needle from the reservoir and use the small white plastic stopper put aside earlier to seal the top of the reservoir.
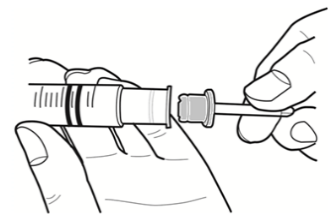
8. Insert the reservoir into the Auto Setter. (the reservoir will protrude from the top of the Auto Setter)

9. Press the button on the Auto Setter to start measuring. The reservoir will wind down and then count the volume.
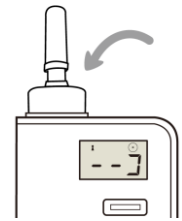
10. Remove the reservoir from Auto Setter and inser the reservoir into the pump. (Be gentle and do not move the plunger or adjust the linking screw).

Connection success   Connection fail
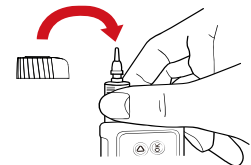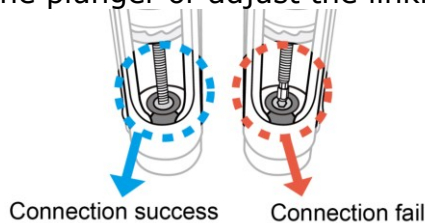
"Click"

11. Replace the reservoir cap aligned with locating lugs, turn counter-clockwise 45 degrees to secure and lock. When locked securely, the reservoir cap and battery cap are aligned in a straight line.
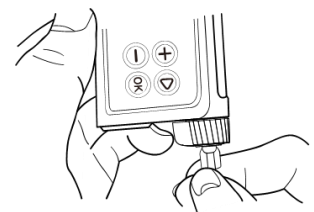
12. The pump will automatically display correct refill volume. Press OK to save and go to Refill-Prime menu and attach the new Infusion set tube to the pump. Start the prime…
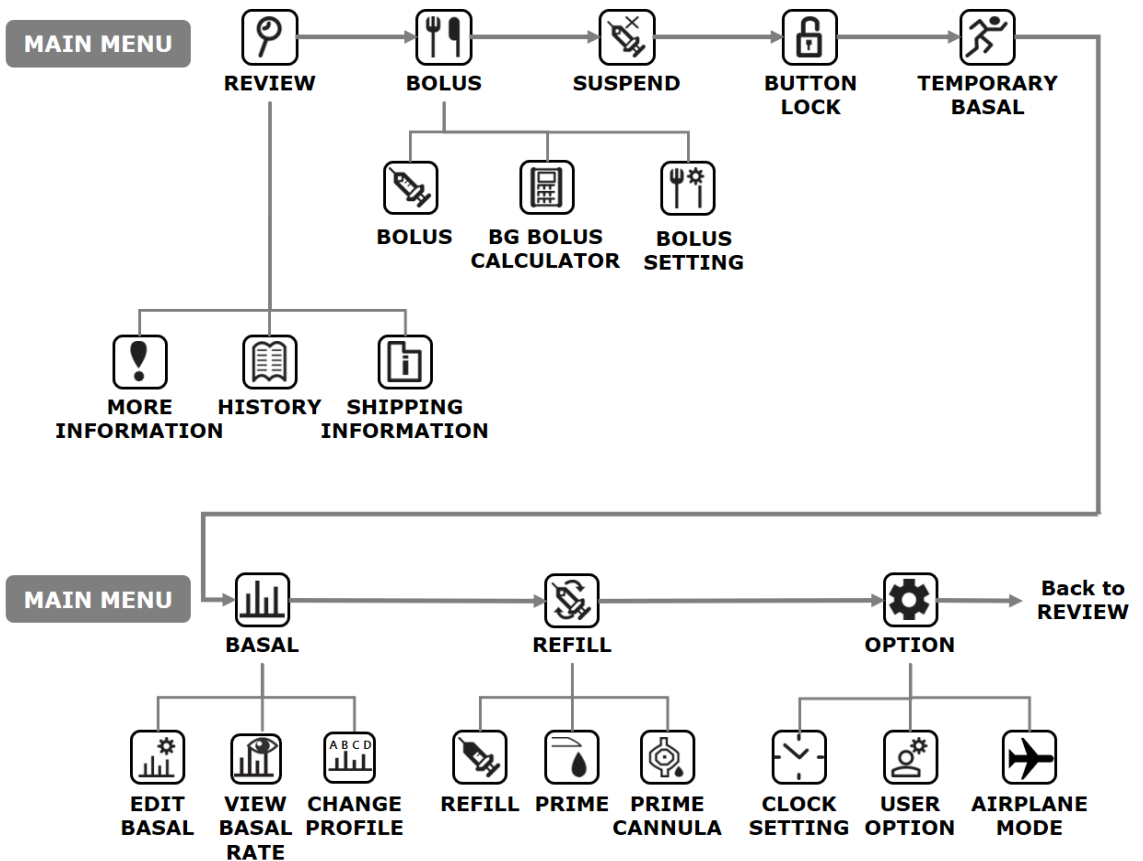
13. Stop or suspend the prime when the tube is full of insulin and there are no air bubbles visible in the tube. Using the (-) key will pause the prime. (5cm of insulin tube = 1 unit insulin)

14. If using a Teflon (plastic) cannula select the prime cannula menu, this fills the empty needle within the cannula after it has been inserted and after the tubing has been connected.
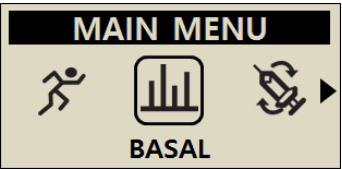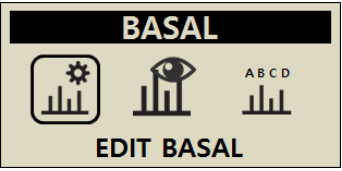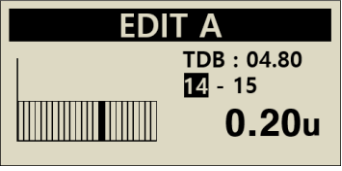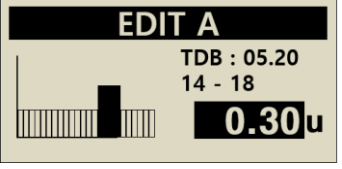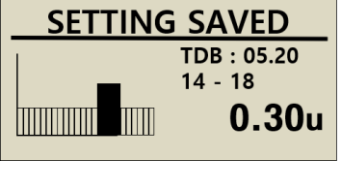
Notice

- Refer to the Diabecare DANA-i User Manual, Chapter 4.
- If the linking screw is too short, it won't engage with the pump motor and insulin delivery fails.
- The insulin pump normally works if the length of adjusted reservoir including linking screw is 82±1 mm (3.2 inch).
- Lock the reservoir cap with "click" or not the cap could be open.
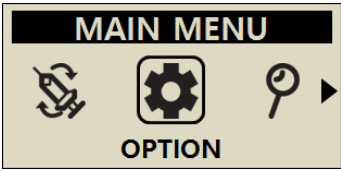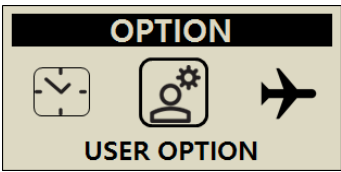
Structure of the Pump Menu

MAIN MENU

REVIEW   BOLUS   SUSPEND   BUTTON LOCK   TEMPORARY BASAL

BOLUS   BG BOLUS CALCULATOR   BOLUS SETTING

MORE INFORMATION   HISTORY   SHIPPING INFORMATION

MAIN MENU

BASAL   REFILL   OPTION   **Back to REVIEW**

EDIT BASAL   VIEW BASAL RATE   CHANGE PROFILE   REFILL   PRIME   PRIME CANNULA   CLOCK SETTING   USER OPTION   AIRPLANE MODE

Setting Basal Rates

MAIN MENU BASAL	Select the 'Basal' option from main menu
BASAL A B C D EDIT BASAL	Select the 'Edit Basal' option from within the 'Basal' menu
EDIT BASAL ⚠ EDIT PROFILE A	Confirm the current Basal profile.
EDIT A TDB : 04.80 14 - 15 0.20u	Adjust the start time and end time for the section (period) being changed or amended. (Note: TDB = Total Daily Basal)
EDIT A TDB : 05.20 14 - 18 0.30u	Next adjust the Basal rate (u/hr) for the period selected.
SETTING SAVED TDB : 05.20 14 - 18 0.30u	When press (OK) to save, a 'SETTING SAVED' screen appears. Press (OK) to finish the setting, or press (▷) to move to the start time to set next Basal rate.
EDIT A ⚠ PROFILE A CHANGED	To confirm changes, select (OK)

Setting up and personalizing the DANA pump

MAIN MENU — OPTION	Select the 'Option' from main menu
OPTION — USER OPTION	Select the 'User Option' from within the 'Setting'menu

Within the 'User Option' menu there are 14 options that can be personalized and configured. These options are specific to individual preferences – such as pump alerts as beep or vibration and clock display as 12 or 24 hour format?

Note – it is necessary to scroll through all options (even if no changes are made, and confirm and/all changes by selected 'Exit' and confirming 'YES' to save options configured.

When setting or changing any of the selected options the ⊕ or ⊖ key changes the selected option. The ▷ key moves to the next option. OK confirms exit from option (15) exit.
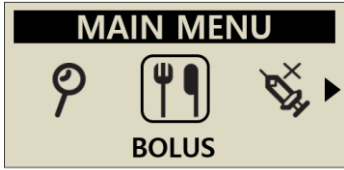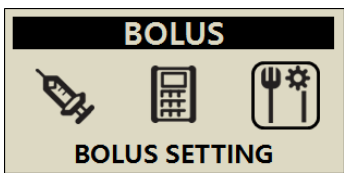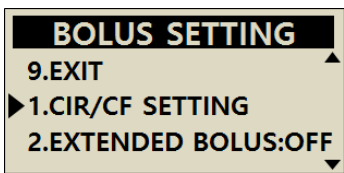
DANA pump Setup – User Options menu

Top RH ⓑ button moves through this menu, ⊕ or ⊖ changes individual option. Select Exit at bottom to save any/all changes.

1. **Time display** 12 or 24 hour clock
2. **Button Scroll** On or Off – enables button press and hold to change levels or dial up Carbohydrate – scrolling quickly.
3. **Beep** On or Off – this is individual key depression beeps
4. **Alarm** Sound, Vibration or Both
5. **LCD On** Time that LCD display remains active before defaulting to sleep mode
6. **Backlight On** Time that LCD backlight remains on (in-between button press)
7. **Language** Default language options for pump operation and menu
8. **Glucose Unit** mmol/L or mg/dL – usually default setting based upon country of origin
9. **Shutdown** Time setting before pump alarms due to no button presses. If alarm not acknowledged – basal will suspend
10. **Low Reservoir** Personalized low volume level for alarm, 10, 20 30 units in 10u increments
11. **Password** Enables change to the password for unlocking the Pump
12. **Cannula Vol** Enables the preset volume for filling cannula to be pre-set (max 0.9 unit)
13. **Modify Rate** Change the volume of insulin within the pump reservoir.
14. **Ideal BG** Ideal/Target BG value from the 'BG Bolus Calculator'.
15. **Exit** Use this to save any/all changes made

DANA pump Setup – Personalizing CIR and CF

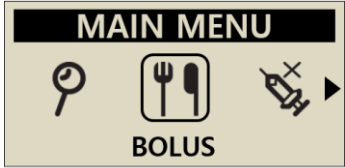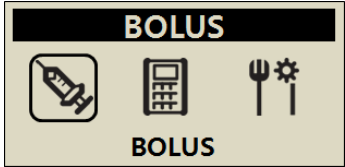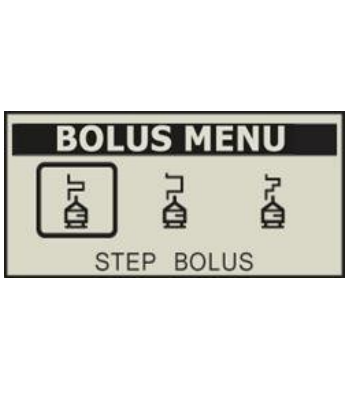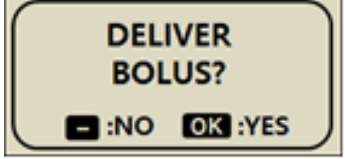**CIR** = **C**arbohydrate to **I**nsulin **R**atio
CF = **C**orrection **F**actor

MAIN MENU — BOLUS	Select the 'Bolus' option from main menu
BOLUS — BOLUS SETTING	Select the 'Bolus Setting' option from Bolus Option menu
BOLUS SETTING 9.EXIT ▶1.CIR/CF SETTING 2.EXTENDED BOLUS:OFF	Select the first option = 'CIR/CF' from setting menu. Set and personalize CF and CIR ratios for each specific time of day.

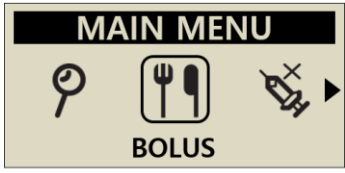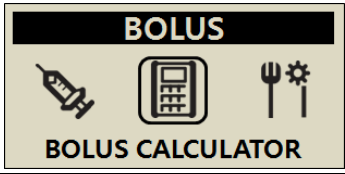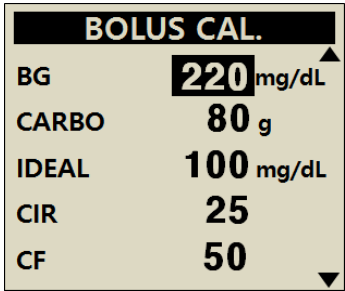A Healthcare Professional and or Insulin Pump trainer will configure some additional settings within the DANA 'Dr. Mode'. These include daily, hourly and bolus maximums, Basal and Bolus increments, decreasing ratio (duration of active insulin) and target or Ideal BG.

Quick Bolus - delivering a Food Bolus without a Correction

(This bolus ignores any residual Active Insulin)

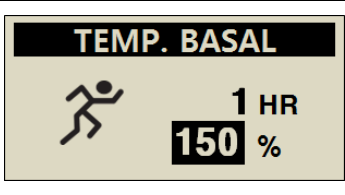|	
MAIN MENU — BOLUS	From the main menu select 'Bolus'
BOLUS — BOLUS	Select 'Bolus' to deliver a standard food bolus without including a correction dose and without reducing the dose for Active Insulin.
BOLUS MENU — STEP BOLUS	If enabled (extended bolus) in user options the pump will offer a range of bolus types. 1. 'Step' is a standard bolus. 2. 'Extended' enables the bolus to be delivered over a long period. 3. 'Dual Pattern' is a combination of both above bolus types.
DELIVER BOLUS? ■:NO OK:YES	Select (OK) to start the delivery.

Delivering a Food Bolus with a Correction

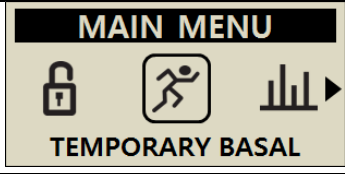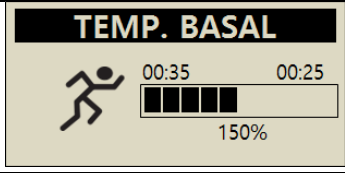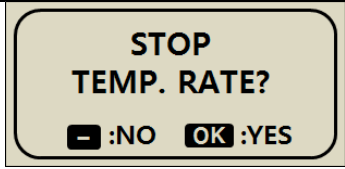|	
MAIN MENU BOLUS	Select the 'Bolus' option from the main menu.
BOLUS BOLUS CALCULATOR	Select the 'BG Bolus Calculator' option from the Bolus menu.
BOLUS CAL. BG **220** mg/dL CARBO **80** g IDEAL **100** mg/dL CIR **25** CF **50**	Input actual BG and grams of carbohydrate in meal. The next screen shows the pre-programmed Ideal BG, Carb to Insulin ratio and Correction factor. Each of these can be altered or select (OK) to confirm settings. The pump calculates the suggested dose. (G + C – A) This can be adjusted up or down if change is needed.
DELIVER BOLUS? ■ :NO OK :YES	Select OK to start the delivery.

DANA Insulin Pumps are set to display Blood Glucose in either mmol/L or mg/dL – depending upon the region they are sold, some regions the option can be changed from within the 'user option menu'.

Temporary Rate Start and Stop

Starting a new temporary rate

MAIN MENU 🔒 🏃 📊 ▶ **TEMPORARY BASAL**	Select TEMPORARY BASAL from the main menu.
TEMP. BASAL 🏃 **1** HR **150** %	Select the duration of the intended temporary rate and the percentage of standard basal rate. Ex)150% is a 50% increase in standard rate. 80% is a 20% reduction in standard rate
START TEMP. RATE? ➖:NO **OK**:YES	Select (OK) to start the TEMP. RATE

Stopping a temporary rate

MAIN MENU 🔒 🏃 📊 ▶ **TEMPORARY BASAL**	Select **TEMPORARY BASAL** from the main menu.
TEMP. BASAL 🏃 00:35 00:25 150%	The **TEMP. STATE** screen is displayed, press (OK) to STOP the TEMPORARY RATE.
STOP TEMP. RATE? ➖:NO **OK**:YES	Confirm the **STOP TEMP. RATE** with (OK).

Flying with an Insulin Pump

1. Refill the pump before flight.

   a. Ensure there is no air in reservoir.
   b. Only load enough insulin for 1 or 2 days (preferably only about 1ml).
2. Upon aircraft take off – disconnect pump for ½ hour or until cruising altitude is reached.
3. Prior to aircraft decent – disconnect pump and prime the tubing once landed before reconnecting.
4. Always carry plenty of supplies and spare insulin.
5. In the event of a mid-air emergency and if the oxygen masks fall – disconnect the pump. Reconnect after departed from the aircraft or when normal cabin pressure is achieved.
6. Take a medical certificate advising use of an Insulin Pump.
7. Ensure to test BG levelsfrequently – especially during long haul flights.
8. On all flights carry non-liquid hypo treatment in accessible carry-on luggage.
9. Get comprehensive travel insurance and ensure that it covers diabetes and wearing an Insulin Pump and make sure it is named/listed on the policy.
10. Change the pump time to destination time once at cruising altitude – Complete this for each separate flight with successive long haul flights.
11. Take at least one spare glucose meter, batteries and test strips. Change the time on the glucose meter at the same time as pump.
12. Before departure, enquire about how to get supplies from each destination travelling to. If necessary, ensure someone back at home knows exactly what supplies and medication is required and make arrangements so they can freight extra supplies if required.

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