



Bluetooth[®] Pulse Oximeter



MODEL A380

Instruction Manual & Warranty Information



Read Instructions Carefully Before Use



Thank you for purchasing this Heart Sure Bluetooth® Pulse Oximeter.

Model: A380

Please keep this instruction manual in a safe place where it is readily available.

Note: The illustrations in this manual may differ slightly from the product itself.



BEFORE YOU START

Note: Connect to a smartphone for complete functionality.



Download and install the JUMPER Health App using the QR code or search 'JUMPER Health' on the App Store or Google Play.



Contents

Important Safety Information	4
Features	7
Package Contents	7
Before Using the Pulse Oximeter	8
Components.	8
OLED Display	9
Installation and Setup	10
Using the Pulse Oximeter	18
Parameter Settings	19
Cleaning and Maintenance	23
Storage.	23
Troubleshooting.	24
Specifications	25
Product Warranty	27
Warranty Form	29

Important Safety Information



Read this section thoroughly before using the product.

Please ensure you observe the safety instructions to avoid accidents, injury and damage.

Intended purpose

The Heart Sure Bluetooth Pulse Oximeter is intended to be used for non-invasive spot-check measurements of functional oxygen saturation of arterial haemoglobin (SpO₂) using a Bluetooth® connected App. The advanced DSP algorithm can minimise the influence of motion and improve measurement accuracy of low perfusion.

The Pulse Oximeter can be used to measure human oxygen saturation and pulse rate through the finger.

This product is suitable for use by individuals and healthcare professionals in multiple situations, including; home, clinical and sporting environments including pre/post-exercise, pre/post-operative conditions.

This product is not intended for use by persons (including children) with limited physical, sensory, or mental abilities or lacking experience and/or knowledge, unless they are supervised by a person responsible for their safety or have received and understand the instructions/safety warnings for use of the product from this person in advance.

Important Safety Information - *continued*

Safety Warnings

If you feel any discomfort such as a pain during the measurement, stop using the product immediately.

DO NOT use the Pulse Oximeter for prolonged periods of time. It is designed for spot-check use only.

DO NOT use on children less than 1 year old as the results may not be accurate.

Seek for medical care if the measured value goes beyond the normal range.

DO NOT directly expose eyes to light-emitting components of the Pulse Oximeter, as this could cause harm to the eyes.

The following factors may cause disturbance to or affect the accuracy of examination:

- If used in an environment involving high-frequency electrosurgical equipment.
- If placement of the sensor on an extremity with blood pressure cuff, arterial catheter, or intravenous injection.
- If the user suffers from hypotension, severe vascular atrophy, severe anaemia, or low oxygen.
- If the patient is in sudden cardiac arrest or shock.
- Fingernail polish or a fake fingernail may cause wrong readings of pulse oxygen saturation.

Important Safety Information - continued

Cautions & Warnings

- The unit measurements may be adversely affected in the presence of high ambient light. Shield the sensor area if necessary.
- **DO NOT** use in MRI, CT, or high-care environments.
- **DO NOT** attempt to open or disassemble the product.
- **DO NOT** attempt measurements when the thermometer is wet, as inaccurate readings may result.
- **DO NOT** let children play with the product - it is not a toy.
- Contains small parts that may cause a choking hazard. **Keep children away from packaging, product, and its components.**
- **DO NOT** throw batteries into a fire. The batteries may explode.
- Remove the batteries from the device when not in operation for a long time, to prolong the battery life.
- **DO NOT** put the unit in direct sunlight or expose to extreme temperatures.
- During a measurement, ensure that no mobile phone or any other electrical devices that emit electromagnetic field is within 30cm of this device. This may result in incorrect operation of the device and/or cause an inaccurate reading.
- Avoid using the Pulse Oximeter in an environment with inflammable gases or using it in an environment where the temperature or humidity is excessively high or low.
- **DO NOT** use in a flammable atmosphere where concentrations of flammable products exist.
- **DO NOT** immerse any part of the instrument into any liquid.

Features

- Bluetooth® connectivity (via App)
- Colour OLED display
- Large font display
- 6 display modes
- Perfusion index display
- Multi-directional display
- Portable and convenient
- Battery DC3V (2x AAA battery)

Package Contents

- 1 x Pulse Oximeter
- 1 x Carry Bag
- 1 x Lanyard
- 1 x User Manual and Warranty Information
- 2 x AAA Batteries



Before Using the Pulse Oximeter

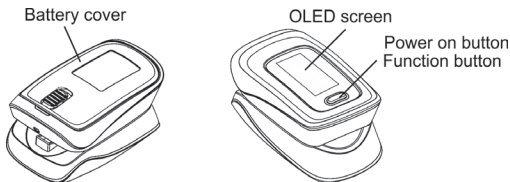
- Carefully remove all packaging materials and keep the enclosed documents in a safe place.
- Keep the packaging, product, and its components out of reach of children. This product contains small parts, which are a choking hazard if swallowed.
- Check the product is intact. **DO NOT** use if broken.

If any abnormalities are detected, please contact our service centre:

In Australia - 1800 807 464

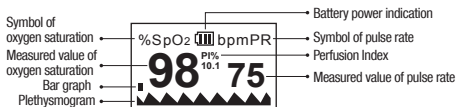
In New Zealand - 0800 523 583

Components



OLED Display

The following figure shows the information display on the OLED screen of the Pulse Oximeter in normal detection state:

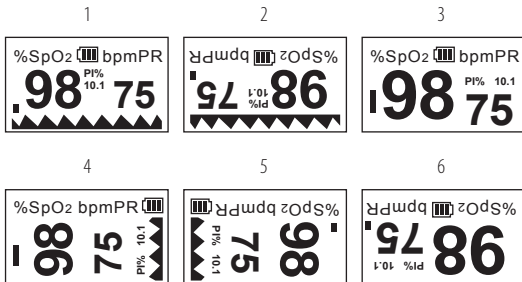


Note: Battery power indication and Bluetooth® symbol will be alternately displayed.

Display Modes

The measuring data cyclically display on the OLED screen in Large Font and Plethysmography.

The OLED screen can rotate for directions with 6 different displays.



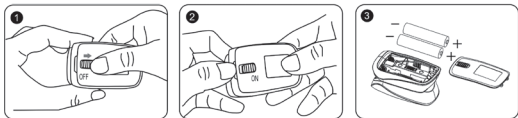
Installation and Setup

Battery Installation & Replacement

When using the Pulse Oximeter for the first time, install the 2 x AAA batteries into the unit.

Installing batteries

1. Slide the Battery Cover Lock downwards.
2. Open the Battery Cover using your fingertip. **DO NOT** use any tools as it may damage the Pulse Oximeter.
3. Install 2 x AAA alkaline batteries into the battery compartment in correct polarity as shown below.
4. Place cover back on the unit.



Battery Replacement

The battery indicator symbol (☐) will flicker on the OLED display when the battery is low.

Replace with 2 new AAA batteries. Repeat steps 1-4 above.

Installation and Setup - *continued*

Connecting the Device

Download and Install JUMPER Health App.



Scan the following QR code to download and install.



iPhone users may search JUMPER Health in the App Store to download.

Android phone users may search JUMPER Health in Google Play to download.

Note: This APP requires phones with system versions of iOS8 or above or Android 4.4 or above to download and install.

Installation and Setup - continued

User Registration and Login

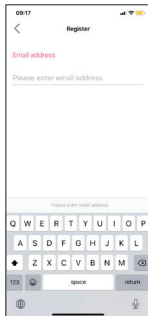
1. User Registration

Setup the account according to the guided steps in the App by entering an email address and send verification code.

Login your registered email to receive the verification code.

Enter the verification code sent to your registered email address.

Enter the user information setting page, to setup your personal details.

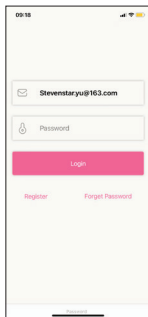


2. User Login

Upon completion of registration, the registered email will become the login account.

Enter the email account and password and click "Login".

Note: If the password is forgotten, you can retrieve the password via email. Upon completion of the first login, you can directly login again without entering the account and password.



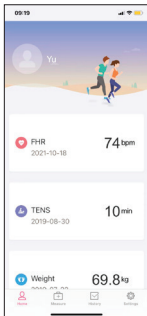
Installation and Setup - continued

APP Homepage

Once successfully logged in, you will enter the APP homepage, which displays the weight, BMI, FHR and Oximeter data.

Users of different genders will have different homepages.

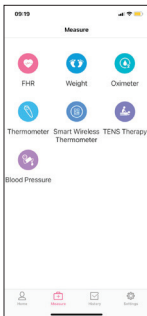
To switch, edit, add, or delete the home users, click the icon in the upper left corner.



Oximeter Measurement

1. Select to Measure the Oximeter

Click "Measure" to enter the measurement page and select to measure the Oximeter.

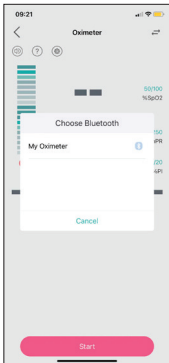
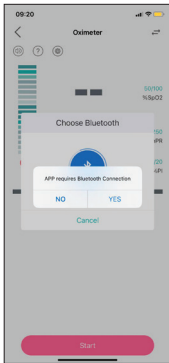


Installation and Setup - *continued*

2. Connect the Pulse Oximeter

(a) If Bluetooth function of mobile phone is not chosen, a pop-up will appear as a reminder to choose the Bluetooth function of mobile phone.

Click “My Oximeter” to connect.



You can click  “How to use” to check the instructions:

- About Product
- How to use
- FAQ

Installation and Setup - *continued*

Oximeter Recording

When the Oximeter data is stable, click “Start” to record the Oximeter.

Upon completion of measurement, click the button “Save” to save the measurement record.

You can view the corresponding report in the record.

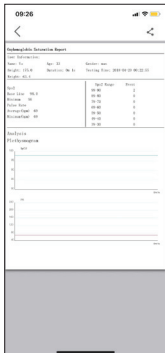
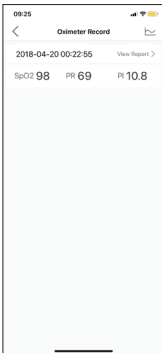
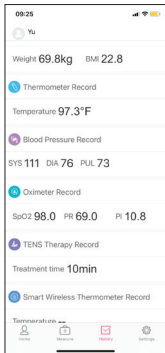


If changing to another device, click the icon  in the upper right corner to choose the different device.

Note: If the SpO₂, pulse rate, and PI value exceeds the range, the phone will send an alert sound. Please consult a doctor as soon as possible.

Installation and Setup - continued

View the Oximeter Record

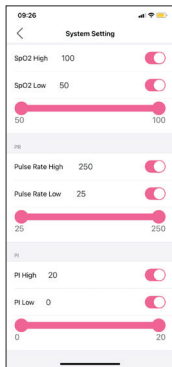
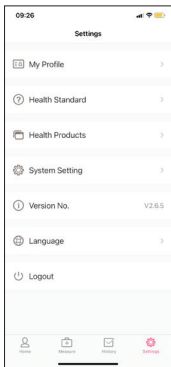


1. Click "History" to enter the records page, where you can view the Oximeter recorded data.
2. Click the "Oximeter Record" to view the detailed record. Click the "View Report" to view the record report.
3. Click the corresponding record, and you can view the Oximeter changes. Click the icon on the upper right corner, and you can share the record on a social platform such as Facebook, Twitter etc.

Installation and Setup - continued

Setting

1. To view the user's profile, health standard, system setting, APP version and logout in the setting.
2. Click "My Profile", and you can set the portrait and country, or revise the name, birthday and height; except registered email-box and gender.
Click "system settings" to set the alert range.



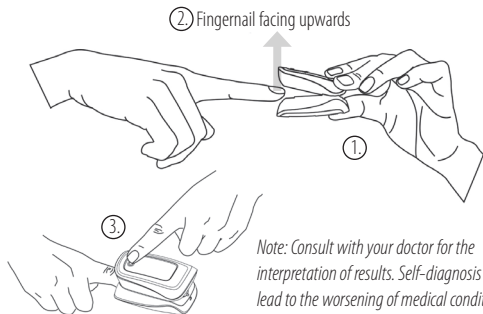
Tips

- Make sure the phone's Bluetooth is turned on.
- Make sure the Pulse Oximeter is turned on and batteries have adequate power.
- Make sure the Pulse Oximeter is within a 50cm range while connecting with the phone.

Using the Pulse Oximeter

1. Open the clamp of the unit and place 1 finger completely into the rubber measuring cavity.
2. Keep the fingernail surface upward and release the clamp to shut.
3. Short Press the **ON Button/Function Button** to start the measurement.
4. Short Press the **ON Button/Function Button** repeatedly to change the Display Mode at any stage during or after measurement. The measured data will appear on the screen for approx. 7 seconds.
5. The Pulse Oximeter will automatically shut down 10 seconds after your finger is taken out.

Note: Keep the body still and ensure no movement while taking the reading. The data may take a few minutes to appear while a reading is obtained.



Note: Consult with your doctor for the interpretation of results. Self-diagnosis may lead to the worsening of medical conditions.

Parameter Settings

In the **Parameter Setting Menu** you can set high/low notification values for both **Blood Oxygen Levels (SpO₂)** and **Pulse Rate (PR)** as well and turning the sound **ON/OFF** and setting the **Brightness** range.

There are 2 types of submenus :

Menu 1: Alert Setup

V2.12		*
Alert setup		
Alert	on	off
Beep	off	ok
Demo	off	
Restore	ok	
Brightness	4	
Exit		

Menu 2: Notify Setup

V2.12		*
Sound Setup		
SpO2 Alert Hi	100	
SpO2 Alert Lo	94	
PR Alert Hi	130	
PR Alert Lo	50	
+/-		+
Exit		



To access the parameter setting:

- Short Press the **ON Button/Function Button** to turn the unit **ON**.
- Press and hold the **ON Button/Function Button** for approx. 2 seconds to enter the Parameter Setting Menu's.
- To switch between the 2 submenus, ensure the "*" is next to the word **Alert Setup** or **Sounds Setup**.

Press the **ON Button/Function Button** for approx. 2 seconds to alternate between each screen.

- Short Press **ON Button/Function Button** to scroll "*" through menu.
- Press and hold **ON Button/Function Button** for approx. 2 seconds to set an item.

Parameter Settings - *continued*

Parameter Setting Menu 1: Alert setup *

V2.12	
Alert setup	*
Alert	on
Beep	off
Demo	off
Restore	ok
Brightness	4
Exit	

Sound Setting (Alert & Beep)

- When the unit is turned **ON** Parameter **Setting Menu 1** is displayed **Alert setup** *.
- Short Press **ON Button/Function Button** to scroll “*” through to **Alert** option and set the alert to on.
- Short Press **ON Button/Function Button** to scroll “*” through to **Beep** option and set to off.
- When **Alert** is set to on and the measured values of the blood oxygen saturation and pulse rate go beyond the upper limit or lower limit, the Oximeter gives off an alert sound.
- When **Alert** is set to off and the measured values go beyond the limit, the Oximeter will not give any alert sound.
- When **Beep** is set to on, a tick will be heard along with pulse beats during pulse rate measurement.
- When **Beep** is set to off, no sound will be output along with pulse beats during pulse rate measurement.

Parameter Settings - *continued*

Restore Setting

- Short Press **ON Button/Function Button** to Scroll “*” through to **Restore** option.
- Press and hold **ON Button/Function Button** for approx. 2 seconds to restore the device back to its original factory settings.

Brightness Setting

- To select the **Brightness** option, hold the **ON Button/Function Button** to set the **Brightness** to a value ranging from 1 to 5. The greater the value, the greater the brightness of the screen.
- Press and hold **ON Button/Function Button** for approx. 2 seconds to set to choose the preferred **Brightness**.

Brightness Range 1 to 5. The greater the value, the greater the brightness of the screen.

Short Press **ON Button/Function Button** to scroll “*” through to Exit option. Press and hold **ON Button/Function Button** for approx. 2 seconds to Exit.

Parameter Settings - *continued*

Parameter Setting Menu 2: Sounds Setup *

V2.12	
Sound Setup	*
SpO2 Alert Hi	100
SpO2 Alert Lo	94
PR Alert Hi	130
PR Alert Lo	50
+/-	+
Exit	

When the unit is turned **ON** and **Parameter Setting Menu 2** is displayed **Sounds Setup *** is activated.

The upper limit and lower limit of **SpO2 Alert** and **PR Alert** can now be set:

- Short Press **ON Button/Function Button** to scroll “*” down to +/- . Press and hold **ON Button/Function Button** for approx. 2 seconds to select + or – (increase or decrease).
- Short Press **ON Button/Function Button** to scroll “*” through to **SpO2 Alert Hi** option.
- Short Press **ON Button/Function Button** to scroll “*” through to **SpO2 Alert Lo** option.
- Short Press **ON Button/Function Button** to scroll “*” through to **SpO2 Alert Hi** option.
- Short Press **ON Button/Function Button** to scroll “*” through to **SpO2 Alert Lo** option.

Short Press **ON Button/Function Button** to scroll “*” through to Exit option Press and hold **ON Button/Function Button** for approx. 2 seconds to Exit.

Cleaning and Maintenance

- Switch the Pulse Oximeter off and remove the batteries before cleaning.
- Keep the surface of the device clean and free of dust and dirt.
- Clean the outer surface of the unit (including the OLED screen) with a soft dry cloth.
- If used in a clinical setting or by multiple users, use a soft cloth slightly moistened with 75% isopropyl alcohol solution to disinfect.
- Do not use abrasive cleaners.
- Do not immerse any part of the instrument into any liquid.

Note: do not use any chemical other than isopropyl alcohol.

Storage

- Remove the batteries from the battery slot and safely store them if you do not plan to use the Pulse Oximeter for a prolonged period of time.
- Place the Pulse Oximeter inside the Carry Bag.
- Store the Pulse Oximeter in a dry location free from dust and contamination and away from direct sunlight.







Troubleshooting

Problem	Possible Cause	Solution
Oxygen saturation or pulse rate is reading abnormally.	The finger is not placed correctly.	Retry by placing the finger in the correct position.
	Patients' perfusion is too low to be measured.	Retry the measurement, if still reading abnormally, please consult a healthcare professional.
Oxygen saturation or pulse rate is unstable.	The finger is not placed correctly.	Retry by placing the finger in the correct position.
	Finger is trembling or patient is moving.	Keep the body still and ensure no movement while taking the reading.
Oxygen saturation or pulse rate is abnormal and caused the notification to sound.	Finger is not placed correctly.	Retry by placing the finger in the correct position.
	The Patients SpO ₂ & pulse rate is abnormal.	Please consult a healthcare professional.
Pulse Oximeter does not turn on.	There may be inadequate power left in the batteries.	Replace Batteries.
	Batteries may have been installed incorrectly.	Re-install the batteries
	the Pulse Oximeter may be damaged.	Please contact customer service.
The device automatically turns off.	The Pulse Oximeter will automatically shut down 10 seconds after your finger is taken out.	This is normal.
	There may be inadequate power left in the batteries.	Replace Batteries.

If the problem is not solved by the troubleshooting guide or you have any queries, please contact our service centre: **In Australia - 1800 807 464** **In New Zealand - 0800 523 583**

DO NOT attempt to open or repair the product yourself.

Specifications

Product Name	Heart Sure Bluetooth Pulse Oximeter
Model Code	A380
Colour	White & Grey
IP Rating	IP22
Peak wavelength range of the light emitted from the probe	Red light 660 nm \pm 3; infrared light 905 nm \pm 5
Wireless Communication	Bluetooth® low energy technology Frequency Range 2402MHz to 2480MHz
Dimensions (out of box)	62mm L x 37mm W x 32mm H
Weight (incl. batteries)	42.5g
Battery	DC3V (2xAAA battery)
Minimum System Requirements	Android 4.4 / iOS 8.0
Operating Conditions	 Temperature: 5 °C to 40 °C  Humidity: 15% to 80% (non-condensing)  Atmospheric Pressure: 700hPa to 1060hPa
Storage/Transport Conditions	 Temperature: -10 °C to 50 °C  Humidity: 10% to 93% (non-condensing)  Atmospheric Pressure: 500hPa to 1060hPa
Alert default Value	
Oxygen Saturation	Upper limit: 100 //Lower limit: 94
Pulse Rate	Upper limit: 130 / Lower limit: 50
Alert Condition	When the alert switch is on and the actual measured value goes beyond the pre-set alert parameter range, the Oximeter gives an alert sound.

Specifications - continued

Display Range	
Oxygen Saturation	35% to 100%
Pulse Rate	25 bpm to 250 bpm
Resolution	
Oxygen Saturation	1%
Pulse Rate	1 bpm
Measurement Accuracy	
Oxygen Saturation	$\pm 2\%$ (70% to 100%)
Pulse Rate	± 2 bpm
Alert Range	
Oxygen Saturation	Upper limit: 50% to 100% Lower limit: 50% to 100%
Pulse Rate	Upper limit: 25 bpm to 250 bpm Lower limit: 25 bpm to 250 bpm
Alert Error	
Oxygen Saturation	$\pm 1\%$ of the pre-set value
Pulse Rate	The greater of $\pm 10\%$ of the pre-set value and ± 5 bpm
Firmware	
Name	Narig
Build	500DEF-V1.0.0
Version Number	V2.12
Contents	
Package Contents	Heart Sure Pulse Oximeter, 1x Carry Bag, 1 x Lanyard, 1 x User Manual and Warranty Information, 2 x AAA Batteries

Disposal



At the end of its life, please treat this product as electronic waste and dispose of responsibly according to current local regulations.



0482

IP22

Product Warranty

Please register your warranty information at:

AUS – www.jadavey.com.au

NZ – www.jadavey.co.nz

This Heart Sure Pulse Oximeter product is warranted to be free of manufacturing defects for 1 year from the date of purchase*. This warranty is void if the product is modified or altered, is subject to misuse or abuse, damaged in transit or lack of responsible care, is dropped, if damage occurs by reason of failure to follow the written instruction booklet, or if product repairs are conducted without authority from J A Davey Pty Ltd.

We will repair, or at our option replace free of charge, any parts necessary to correct material or workmanship, or replace the entire product and return to you during the period of the warranty. Otherwise, we will quote for any repair which will be carried out on acceptance of our quotation. The benefits conferred by this warranty are in addition to all other rights and remedies in respect of the product, which the consumer has under the trade practices act and other state or territory laws in Australia and New Zealand.

Our goods come with guarantees that cannot be excluded under Australian and New Zealand Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

**Please note the accessories are not covered under warranty.*

Product Warranty - continued

Before you send in your unit for service

Before sending in your product for service, please take a few minutes to do the following:

1. In your instruction manual, read the troubleshooting section that describes common errors, their cause, and remedies.
2. Product instruction manuals can be downloaded online.
3. Contact Welcare customer service. Our staff are trained to assist you with most issues you may have experienced, without the need to send your product in for service.

Please call our toll-free number:

IN AUSTRALIA: Free call 1800 807 464 IN NEW ZEALAND: Free call 0800 523 583

Sending in your unit for service

1. Should repair be needed within the warranty period, enclose the cut-off section of the warranty form and your proof of purchase receipt. Please ensure all relevant details are completed before sending your unit in for service. Please ensure your contact details are still current and include a brief description of the problem you are experiencing together with your purchase receipt.
2. Include the unit with all product components in your package. This is extremely important, so our repair technicians can make the correct diagnosis with any problems.
3. Please return the product and warranty form at your cost to:

IN AUSTRALIA: J A DAVEY PTY LTD IN NEW ZEALAND: BV Medical

Heart Sure Repairs
PO Box 84
Port Melbourne
Victoria 3207

Heart Sure Repairs
Unit 7, 110 Mays Road
Onehunga
Auckland 1061

Warranty Form

PLEASE RETAIN WARRANTY INFORMATION. RETURN THIS PORTION ONLY WHEN YOU RETURN YOUR PRODUCT FOR REPAIR UNDER WARRANTY.

NAME:

ADDRESS:

POSTCODE:

DAYTIME PHONE:

EMAIL:

MODEL:

DATE OF PURCHASE: / /

PLEASE ATTACH PROOF OF PURCHASE

RETAILER'S NAME:

RETAILER'S ADDRESS:

POSTCODE:

BRIEF DESCRIPTION OF PROBLEM YOU ARE EXPERIENCING:

WARRANTY IS VOID UNLESS THE ABOVE INFORMATION IS COMPLETED AND CORRECT.





Should you require any further information please do not hesitate to contact us.

Manufactured for:

IN AUSTRALIA:

J A DAVEY PTY LTD
626 Lorimer Street
Port Melbourne, VIC 3207
Telephone: 1800 807 464
Web: www.jadavey.com.au

IN NEW ZEALAND:

J A DAVEY LTD
C/- Healthcare Logistics
58 Richard Pearse Drive
Mangere, Auckland 2022
Telephone: 0800 523 583
Web: www.jadavey.co.nz



MedPath GmbH

Mies-van-der-Rohe-Strasse 8,
80807 Munich, Germany

Manufactured by:



SHENZHEN JUMPER MEDICAL
EQUIPMENT CO., LTD

D Building, No. 71, Xintian Road,
Fuyong Street, Baoan, Shenzhen,
Guangdong, China, 518103

MADE IN CHINA

V04/22

Important information regarding Electro Magnetic Compatibility (EMC)

Heart sure Bluetooth Pulse Oximeter manufactured by SHENZHEN JUMPER MEDICAL EQUIPMENT CO., LTD conforms to EN60601- 1-2:2015 Electro Magnetic Compatibility (EMC) standard.

Further documentation in accordance with this EMC standard is available at www.jadavey.com.au

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heart sure

Bluetooth®
Pulse Oximeter



MODEL A380