WARRA	NTY CARD
Model No.:	Lot No.:
Invoice No.:	Date of Purchase
Purchased By:	Contact No.:
Address	OOIN
Dealer's Name	
Dealer's Sign & Stamp	

Passim Lifesciences Ltd. warrants this units free of any defect in material, workmanship and operation, under normal use, for a period of one year from the date of purchase. If any part become defective during the warranty period Passim Lifesciences Ltd. will repair or replace (if not repairable) the same, free of cost. This shall not apply to any parts that are considered as expandible or deteriorable in the course of normal use. Passim Lifesciences Ltd. shall be relieved of any liability and warranty shall cease to apply if:

- This is not used in accordance with the instructions in the operational manual.
- It is used with any equipment not complying with the specification of this unit.
- It is not regularly maintained.
- The unit is disassembled, repaired or operated by person not authorized by Passim Lifesciences Ltd.
- Damage caused due to negligency.

Plot No. 45, Ind. Area, Phase-II, Panchkula - 134113, Haryana-INDIA

Customercare Number: 1800 309, Timing: 9am - 7pm, Mon. - Sat.

Email ID: customercare@drodin.in, Website: www.drodin.in

File Number: Passim-Panch-HR/M/MD/013560 For any complaint/Suggestion please contact:

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The warranty card is not filled completely and produced at the time of warranty							
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IM/OFD/60-00



Fetal Doppler MODEL NO. - OFD102 INSTRUCTION MANUAL



Please read instruction manual before use

♠ Warning:-1. Intended Use:-Do not use with high frequency surgical equipment. OFD102 Fetal Doppler is an equipment which uses the principle of ultrasonic Doppler to detect the fetal heart beat in pregnant and lying-in women. OFD102 Fetal Doppler is easy to ⚠ Warning:operate, convenient to carry, stable in performance and high in reliability. Accessory equipment connected to analog and digital interfaces must be verified against Standard configuration of this equipment: One main unit, one external ultrasonic probe. their respective IEC standards (e.g. Medical equipment Standard IEC 60601-1) and all one battery, one user manual, one certificate of conformity and one warranty card. (This configurations should conform to the valid version of IEC 60601. Therefore, personnel who product is used with coupling agent) connect accessory equipment to signal input connectors or signal output connectors should ensure that the system meets the requirements of the valid version of IEC 60601-1 2. Manufacturer's responsibility:when configuring the medical system. If in doubt, please consult our technical service Our company is only responsible for the safety, reliability and performance of equipment department or your local agent. under the following circumstances. Namely: Assembly operation, expansion, modification and maintenance are carried out by personnel approved by our company and the Marning:equipment is operated according to the user manual. Fetal Doppler (hereinafter referred to as "Fetal Doppler") is a hand-held fetal heart rate examination tool and cannot replace standard fetal monitoring. The intended use of this equipment is fetal heart rate detection and cannot be used for ① Caution:treatment. If you have doubts about the health of the fetus after using this equipment. If the equipment is not used for a long time, please turn off the power in time. please use other methods for further examination immediately, such as stethoscope for (i) Caution:verification. The equipment must be stored in a cool and dry environment. Warranty:-(i) Caution:-This equipment cannot be repaired by users themselves and all maintenance treatment This equipment should be returned to the manufacturer for recycling or disposal according should be carried out by technicians approved by the company. The warranty scope of this to local regulations after its effective life. equipment covers all equipment failures caused by failure of materials and equipment or When cleaning the equipment: production process. During the warranty period, all faulty parts can be repaired and ① Caution:replaced free of charge (except warning part). Man-made damage is not covered by the Do not use string solvents such as acetone. warranty. ① Caution:-The annotation of this manual. Do not use abrasive materials (such as steel wire or silver polish). 3. Safety Guide :-① Caution:-This equipment is an internal power supply equipment and the electric shock protection Do not let any liquid into the casing and do not invade any part of the equipped into the type is B application part. Type B application parts are equipment with specific degree of liauid. protection against electric shocks. Type B protection means that the equipment connection shall comply with ICE 60601-1 for permission leakage current and dielectric (i) Caution:-Do not liquid into the equipment during cleaning. strength. This equipment conforms to GB/t 14710-2009 climate Environment Group II and Mechanical Environment Group II. () Caution:-Do not let any cleaning liquid remain on the surface of the equipment. In order to avoid possible injury, please observe the following safety instructions when operating this equipment: When disinfecting the equipment: ⚠ Warning:-() Caution: - Do not sterilize the equipment or probe by high and low temperature, steam Do not use in places with combustible gases such as paralytic agents, which may cause or other methods. explosion. Not: - See the random file ⚠ Warning:-4. Product Instruction :-Do not throw the battery into the fire to avoid explosion. Waste shall be disposed of 1 Structural composition: This product consists of a main and an external ultrasonic according to relevant national regulations. probe. The main unit includes a display unit, a signal processing unit, an audio output ↑ Warning:unit and a button input unit. The ultrasonic probe includes an ultrasonic transducer and a Do not touch the signal input or output connector and the patient at the same time. micro-signal processing processing unit.

3. Expected uses:-This product is for pregnant women to detect fetal heart rate, for medical staff who have received relevant professional training or pregnant women to use in hospitals, clinics, communities and families. 4. This Product can be used from 16 Weeks onwards.

2. Scope of application: This product is suitable for measuring and monitoring fetal heart

- 5. Appearance:-
- (1) Main Unit (2) Display (3) Volume down button
- (4) On/off button/mode switch button
- (5) Volume up button Speaker zone
- (7) Probe
- (8) Battery cover
- (9) Earphone socket
- (10) Probe connection cable
- 6. Display Content and Interpretation:-

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Numbering	Symbol	Explanation
1	8	Electricity display
2	145	Fetal heart rate value, if displayed, indicates that there is no fetal heart rate va lue
3	bpm	Fetal heart rate unit, beats/min
4	■8	Volume display
5		Fetal heart symbol
6	Q .ettl	The intensity of fetal heart signal indicates that the closer the fetal heart position is, the stronger the fetal heart signal is

it indicates the current mode

Mode icon, representing digital mode and historical

curve mode respectively. When the mode icon is red,

- Fetal heart rate Fetal heart rate range signal intensity 7. Control button Function:-
- 4.7.1 Power Switch button:-

Fetal heart

Fetal heart

symbol

- Function: Control the power supply on/off.
- Startup: In the shutdown state, press the power switch button to start the equipment. Shutdown: In the startup state, press the power switch button 2s for a long time to shut
- down the equipment. 4.7.2 Volume reduction button:-When the equipment is turned on or working, if the sound is to low, press the volume increase button to increase the volume
- 4.7.3 Mode and Menu
- History Cury Mode: In the boot state, the default is digital mode ■. Click the button condition. If it is not in good condition, please stop using the equipment and contact the manufacturer immediately, and keep the packaging materials for later transportation or storage.
- direction, remove the battery cover, load the battery correctly according to the direction indicated by the battery, and close the battery cover after the battery is loaded. 6. Recommended Battery Type: - AA Alkaline Battery (AA R6 1.5 V) Note: If the positive and

♥ 145_{bm}

@...II

■8

- negative electrodes of the battery are installed incorrectly, the equipment will not run normally. 1. Remove battery Open the battery cover and remove the battery.
- 2. Battery low charge detection When working normally, the LCD screen displays power information, the number of squares in the battery icon indicates the amount of remaining power, and when the number of squares is zero, it indicates that the battery power is very
- low 7. Probe operation:-
- Hold the upper end of the probe first and pull it out. 8. Fetal heart rate detection :-
- 8.1 Fetal heart rate detection steps:-
- 1. Maintain a Jennifer mood and take a supine position. The recommended measurement time is 30 minutes after getting up, 30-60 minutes, after lunch, and half an hour before going to bed. The length of a single measurement is 1-2 minutes.

5. Using Batteries: - Installing battery Turn over the equipment, hold the body with one hand, press and hold the battery compartment with the other finger, slide along the arrow

Volume

Electricity quantity

Historical curve

is history curve

Mode icon, the current mode

3. Press the power switch-on button to start up: 4. Press the probe close to the abdominal wall, and move the probe within the position of the fetus to find it. The probe should not move too fast, but should stay for more than 5 seconds. After finding the best auscultation position, adjust the volume

and have a stable fetal heart rate value

8.2 Method of finding fetal heart position

near this position.

equipment:

2. Coating a proper amount of coupling agent on the probe surface of the fetal sound

and select the best volume gear until you hear clear and rhythmic fetal heart sounds

1. Refer to the fetal heart position recently found by the doctor, and slowly find it

- 2. Because the fetus moves in the abdomen at any time, the position of fetal heart may also change:-Before 6 months, the fetal heart rate was often located in the middle or both sides of the umbilious 6-8 months, as the fetus grows up, the position of fetal heart rate will also move up. The
 - loudest position of fetal heart sounds is on the back of fetus. Fetal movement is usually the fetus The hands and feet are moving. If the right side feels frequent fetal movement, the

movement, the fetal heart rate is generally on the right side

If you don't hear the fetal heart, you can patiently look near the fetus

fetal heart rate is generally on the left side: When the left side feels frequent fetal

If you find that you can't hear the fetal sound suddenly at the original position, but you can feel the fetal movement, it means that the fetal position has changed, so you can find it slowly near the original position. If the fetal movement is not obvious, please go to the hospital immediately. When the fetal heart rate is normal, it fluctuates in the range of 120-160 times per minute. If it is confirmed that it is more than 160 times per minute or less than 120 times per minute, you should go to the hospital for treatment



Precautions:-1. Before use for the first time, please open the battery cover of the fetal sound

- equipment and install the alkaline dry battery that meets the requirements. 2. Do not move the probe all the time during use, but stay the probe for about 5s. If the fetal heart rate is not found, move the probe to continue measuring.
- 3. Don't mistake the sound of mother's heart rate and umbilical blood flow for fetal heart sounds
- 4. Put the probe close to the abdominal wall, with a little softness, not just tiptoe on

still after finding it. The fetal heart rate displayed after 3-5 seconds is the accurate fetal heart rate. ◆ After finding the fetal heart rate, it will disappear for a while. What's the

11. Frequently Asked Questions:-

♦ How to find fetal heart rate?

♦ Where is the fetal heart rate generally?

- will change accordingly, so if you can't hear the clear fetal heartbeat or the heartbeat sound is weak, you should immediately move the position of the probe to find the best
- position again.
- Fetal heart sound is like horseshoe sound, which is a continuous rhythmic sound.
- How to judge the found fetal heart rate?
- After hearing the rhythmic sound, the value displayed on the screen is 110-160 (it may exceed 160 before 20 weeks, and the more careful the gestational age, the faster the

the belly to prevent the noise caused by air between the probe and the belly.

tension, which will weaken fetal heart sounds and affect auscultation effect.

umbilical cord blood pulsation can be heard.

beats/min and 160-180 beats/min, which should be paid attention to.

sometimes it is necessary to move the probe to point close to the pubis.

obtained

probe.

matter?

5. In actual use, please do not press hard so as not to cause abdominal muscle

6. Better detection results can only be obtained by placing the probe in the best

7. It is impossible to detect fetal heart rate unless audible fetal heart sounds are

9. Method for determining fetal heart rate: - At the moment of hearing fetal heart sounds, you

can't read immediately, and the number displayed after the probe is relatively fixed for 5 seconds is

accurate. At the same time, the heart rate displayed by the equipment will change with the change

of fetal heart rate. Usually, fetal heart rate is normal at 120-160 beats/min, and critical at 100-120

10. End of fetal heart test: - After the fetal heart test, please turn off the fetal sound equipment first,

then wipe the coupling agent left on the probe surface of the fetal sound equipment and the

abdomen of pregnant women with paper towel, and put the probe into the probe card to protect the

Before the 24th week of pregnancy, the fetal heart rate is usually located in the

middle or both sides under the umbilicus, between the navel and pubis, and

Apply a proper amount of coupling agent on the surface of the probe. When looking for fetal heart

rate, the probe must move the probe slowly and in a small amplitude (about 1 cm), stay for 5

seconds after selecting the position and search patiently. After hearing the fetal heart sound, continue to move the probe around to find a clear, loud any rhythmic position and keep the probe

Because the fetus will move in the abdomen at any time, the position of fetal heart

rate). The stable fluctuation number is the current effective heart rate value of the

display--, the boot has a numerical value may be the user in the boot touched the

position, and do not place the probe in a place where strong placental sounds or

- baby.
- ♦ Why is there a numerical display when you first open? Under normal circumstances, there is no numerical display on the boot, only
- probe position, or shaking the equipment caused. The value at this time is not the true fetal heart rate.
- Why is there noise when measuring?

The fetal sound equipment can sense any sound vibration, including air vibration.

Therefore, there will be noise after starting up, which is a normal phenomenon. In the 16 Environment measurement process, noise will be generated due to fetal movement and probe Temperature: + 5 °C ~ + 40 °C Working environment movement. At the same time, if the user does not find the correct position, fetal movement. Humidity: 25% ~ 80% amniotic fluid, pregnant woman's body movement, cord blood flow, pregnant woman's Atmospheric pressure: 70kPa ~ 106kPa breathing, cough and other factors will also lead to noise. Coated with coupling agent, the Temperature: -20 °C ~ + 55 °C probe presses the skin slightly, which can electively reduce the noise. Transportation and Humidity: ≤ 93% ± 3% ♦ How often do you test it? Will it a ect your children if you test it too much? storage Atmospheric pressure: 70kPa ~ 106kPa All indicators such as electromagnetic radiation of fetal sound equipment meet the Transportation conditions: fall-proof, earthquake-proof national standards, so daily fetal heart rate detection can be carried out with confidence. and moisture-proof Storage conditions; dry, clean and Under normal circumstances, it is recommended to measure it 2-3 times a week for 1-2 normal temperature minutes each time. Older pregnant women and pregnant women with abortion history can appropriately increase the frequency of use. 17. Performance Parameters ♦ How many weeks can I start listening to my baby's fetal heart? It is recommended to find fetal heart after 16 weeks 60-240bpm Fetal heart rate range 12. Technical indicators Not more than 2bpm Error of fetal heart rate measurement Fetal Doppler Product name Comprehensive sensitivity Not less than 90dB (probe surface distance 200mm) Product model: OFD102 Software release version: Vnng 18. Troubleshooting Operational or other problems may prevent you from achieving the desired results. 13. Electrical Safety:-Please refer to the following troubleshooting measures to solve them. Type of electric shock protection Internal power supply equipment Fault point Causes of occurrence Exclusion method Type B application part Degree of resistance to electric shock Unable to boot The battery is not Install the battery correctly according to the instructions Power connection conditions AA Battery = DC 3v installed correctly of the battery slot Degree of liquid inlet prevention Probe protection level IPX1 Insufficient battery power Replace a new battery Safety degree with combustible gas It is not suitable for use in the environment, with Low sound The volume is too low Turn up the volume combustible gas Operating mode Continuous work Insufficient battery power Replace a new battery Electromagnetic compatibility Group 1 Class B Probe position is not good Adjust the probe to the best position 14. Physical Properties Uncoated coupling agent Adding coupling agent or small amount of coupling Dimensions 140mm*99mm*35mm agent Weiaht 183g (with battery) No sound Probe shedding Plug in the probe 15. Physical Properties Too much noise Have strong interference Keep away from interference sources source 140mm*99mm*35mm Dimensions Uncoated or small amount Coat with coupling agent 183g (with battery) Weight of coupling agent

If the equipment is not used for a long time, please take out the battery and store it. 1. Preservation:-Prevent water or other liquids from immersing in the equipment and probe, and keep it in a dry and clean place.

After the equipment is used, if the shell is dirty, it can be scrubbed with neutral, detergent, 2. Precautions:-1. The inside of the equipment is a precision electronic circuit, please do not open it without authorization

2. Do not collide with the probe surface, so as not to cause damage to the chip.

3. The appearance of the equipment can be wiped and cleaned with non-corrosive detergent. Do not disinfect at high temperature or clean with corrosive detergent. The

probe can be wiped and disinfected with a small amount of alcohol.

4. After each monitoring, clean and disinfect with cloth or paper towel.

5. The equipment is forbidden to collide to avoid damage.

6. Please pay attention to waterproof and moisture-proof equipment.

7. After each use, the power should be turned off to prolong the use time.

8. When the external ultrasonic probe reaches its service life, please replace

the probe of the same type in our company in time in order to make the monitoring

more accurate 20. Maintenance, Cleaning and Disinfection

1. Maintenance: - Fetal Doppler is a precision equipment, which must be handled with care.

19. Equipment Maintenance

The excess coupling agent on the probe must be wiped off after the equipment is used.

These maintenance measures will prolong the service life of the equipment. Before use, the user must check that the equipment is free of obvious damage that may affect patient safety or equipment performance. The recommended inspection cycle is once a month or less. If obvious damage is found, it is recommended to replace the damaged parts before use.

The equipment shall be periodically inspected to ensure leakage current insulation, including leakage current measurement. The recommended test cycle is once every two years or according to the regulations formulated or inspected by public institutions.

The accuracy of fetal heart rate is controlled by hand equipment and cannot be adjusted by user. If fetal heart rate results are not credible, use other methods, such as using a stethoscope for verification, or contact your local agent or manufacturer for assistance. Keep the appearance of the fetal sound equipment clean, free of dust and dirt, and clean the outer surface of the casing (including LCD display) with a dry and soft cloth.

Wipe off the excess coupler on the probe with a soft cloth.

2. Cleaning: - Please turn off the equipment before cleaning.

(i) Caution: Do not use strong solvents such as acetone.

(1) Caution: Do not use abrasive materials (such as steel wool or polishing agent).

(1) Caution: Do not let any cleaning liquid remain on the surface of the equipment. Note: The probe surface can be wiped with 70% alcohol, air-dried naturally or cleaned with a clean and dry cloth. 3. Disinfect: - Clean the equipment surface and probe as described above, and then wipe

(1) Caution: Do not pour liquid into the equipment during cleaning.

(1) Caution: Do not let any liquid into the casing, and do not immerse any part of the

the probe surface with 70% alcohol. Wipe the probe with a dry, soft cloth to remove liquid

substances remaining on its surface. (i) Caution: Do not sterilize the equipment or probe by high and low temperature, steam or other methods

Symbol

equipment in liquid.

S/N

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21. Symbolic Information and Interpretation

Description

1	Λ	Note that refer to the attached document
2	①	Important information about operation and product safety.
3	' 	Afraid of wet, this symbol also means "keep dry".
4	1	The upper and lower temperature limits should be marked near the upper and lower horizontal lines.
5	Ø	Humidity limits should be shown near the upper and lower horizontal lines.
6	Ð	DescAtmospheric pressure limits should be shown near the upper horizontal line and the lower horizontal line.iption
7	`₩	This symbol indicates that the mesh atomizer cannot be

ild be shown near the upper and lower essure limits should be shown near line and the lower horizontal line intion es that the mesh atomizer cannot be discarded as domestic garbage. Please hand over the old or unused mesh atomizer to the waste disposal station for

electronic waste disposal or to your hearing care specialist for disposal. Reasonable treatment will protect the environment and health. ⅉ Type B application part