

Cow Visual Insemination Gun Product Manual

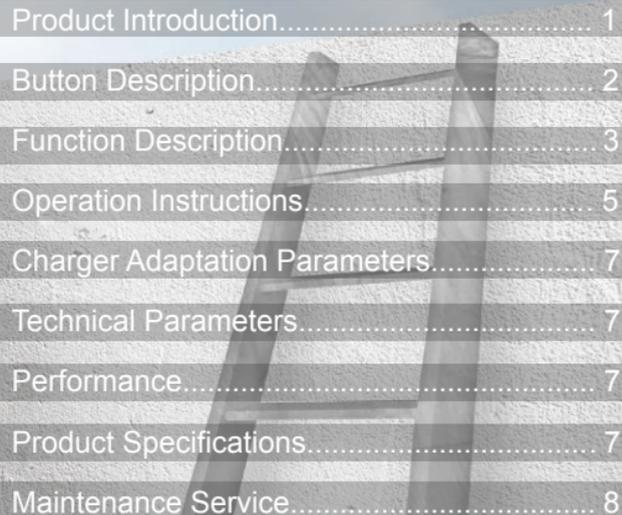




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Content

A wooden ladder is positioned against a light-colored, textured wall. Several thin black lines extend from the rungs of the ladder to the right, pointing to the corresponding items in the table of contents. The background shows a blue sky with white clouds.

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【Product Introduction】

The insemination gun is the latest type of insemination product developed by our company after many years of scientific experiments and experiences in actual production. Our lab collaborated with experts from university and experienced veterinarians. Improve this product with innovation. Make the process of insemination safer, more effective and more hygienic.

Digital gun humanized design on Visual Insemination Gun. The handle is comfortable to grip and is not easy to slip. The anti-drop rope is designed under the handle to prevent the device from falling. The main purpose of the visual insemination gun is to show the invisible details of the insemination process to the operator. The HD display can be used in the sun clear image. It can be used for pigs, sheep, cattle, horses and donkeys.

The Cow Visual Insemination Gun will lead the cattle breeding field into a new era. It does not require the traditional method of rectal control. It can effectively prevent the occurrence of zoonotic diseases and allow cows to receive inseminations in comfortable and safe condition. The visual insemination gun can be used with special spherical thimbles and disposable outer casings. Therefore, the repeat of cleaning and sterilizing is unnecessary. Can avoid the cross infection.

【 Button Description 】

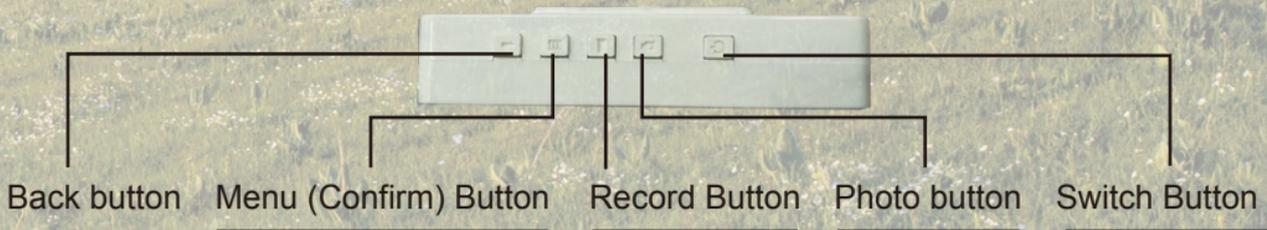
【Switch Button】 : Press and hold for 2 seconds to turn it on; Press and hold for 3 seconds to turn it off.

【Record Button】 : Insert the SD card (memory card) into the SD card slot after booting; Press the “Record” button to start recording; Press again to stop recording; The recorded video will be stored automatically.

【Photo button】 : Insert the SD card (memory card) into the SD card slot after booting; Press the “Photo” button to take the photo; The photo will be stored automatically.

【Menu (Confirm) Button】 : It is a multi-function button for recording, taking photos, playback, deleting and setting.

【Back button】 : Press to return to the previous interface.



【Function Description】



1. Display: High-Definition LED display to monitor the insemination process.

2. The connection hinge between the gun and screen: The screen can be swung 120° back and forth and rotated 360° left and right (Do not rotate in one direction more than 270°), which can provide a more comfortable posture for the operator to complete the insemination. The process is convenient for many people to observe and learn the process of insemination.

3. Probe: The probe is made of medical stainless-steel. It is waterproof, anti-corrosive, rust-proof and it

can be cleaned with disinfectants. The built-in heating and vibration function can relieve tensions of cows.

4. Micro lens camera: Ultra-clear cold light source camera which can take photos, record videos. The dischargeable expansion head covers the camera that is convenient for cleaning, disinfecting the camera and observing the condition of the uterus.

5. Blowing and heating features: Due to the hysterostrismus and the vaginismus caused by fear and discomfort of cows, it is difficult to insert the insemination needle into the uterus. Squeeze the trigger can activate the vibration feature to relieve the cramp. Activate the vibration feature after the completion of the insemination can promote uterine contraction, sperm capacitation and well distribution. Built-in electric air pump will also be activated when squeezing the trigger. The air gate can blow away the fog caused by temperature difference and the mucus on the camera during the operation.

6. Grip: The handle was designed according to the shape of the hand. The grip is comfortable to hold. The anti-drop rope is designed under the handle to prevent the device from falling. The battery is installed in the handle and can be replaced by another battery. (Rechargeable mobile phone battery with 8-hour standby time. Battery life is about one year)

7. Heating socket: The gun can be connected to a mobile power source to heat the probe. Heating and thermostat can avoid damage and discomfort to the vagina due to temperature difference in winter.

8. Spherical head insemination thimble: The spherical head of the insemination thimble is designed to easily pass through the cervix which has a bunch of irregular folds.

【Operation Instructions】

Preparation before the insemination operation

Visual intensive gun (ensure the power is sufficient); The expansion head (for cattle type); The insemination needle; The disposable outer casing; Frozen fine tube (thawed); Wet cloth; Alcohol cotton; Some warm water.

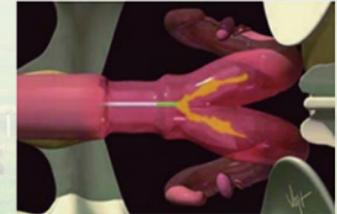
Insemination operation

1. Wipe the visual insemination gun with alcohol cotton and wait until the alcohol completely evaporate. Ensure that the visual insemination gun has been disinfected and the camera is clear. Then the visual field expansion head is installed at the front of the probe.
2. Connect the power supply or the mobile power supply to heat the probe (Only for low temperature conditions).
3. Wash and disinfect the vulva of the object with warm water. Wipe it with a wet cloth after cleaning to ensure no residue remains.
4. Put the thawed frozen fine tube into the insemination needle and cover it with outer thimble for standby.
5. Put the disposable operating bag on the probe and fix it with rubber bands.
6. Switch on the visual insemination gun and confirm that the image is clear. Insert the visual insemination gun into the vagina of the object. Initially insert the 5-10 cm at an angle that is upward (depending on the breed of the cow) and then continue inserting about 30cm horizontally until the cervix can be clearly seen.

7. Maintain the visual insemination gun. Insert the insemination needle that has been installed with the frozen semen and observe on the screen to ensure that the spherical head has reached the position of the cervix. If the camera is not clear, press the blow button on the front of the handle to blow the mucus or impurities away until the camera captures a clear image.

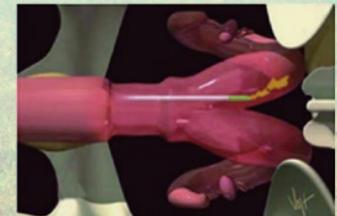


8. After reaching the uterus, because the uterus of the cow is closed during the diestrus period, the diameter of estrus is about 1.5cm open. There are also irregular folds of 6-13cm long. So, there will be some resistance. When we gently rotate the insemination needle and simultaneously insert into the uterus, the spherical head is very slippery and will not scratch the cervix and uterus. When the insemination needle is inserted into the uterus, about 10cm, it reaches the bottom of the uterus. Slowly push the plunger until the semen is completely injected.



(Note: If the insemination needle is inserted too deep, the semen may only be released to the uterine horn on one side. It will cause uneven distribution of semen. If the uterine horn on the other side ovulates, it will directly affect the conception rate.)

9. After insemination, slowly take out the insemination needle to prevent the semen backflow. Then remove the visual insemination gun. Wipe it clean with a clean wet cloth and disinfect it with alcohol cotton. Finally, pack the insemination gun into a designated container and keep it in a safe place.



【Charging Adapter Parameters】

Model Name: P5-1000

Input: 100-240V AC 50/60HZ 0.15A

Output: 5V DC 1000mA

Uses: for artificial visual insemination of cows

【Technical Parameters】

Total Length: 45.7cm

Handle Width: 6.4cm

Endoscope Probe: 44cm

Probe Diameter: 22mm

Probe Inner Diameter: 11mm

Air Passage: 2mm

Working Channel: 10mm

Camera: 3.9mm

Resolution: 640px*480px

Screen Size: 3.5 inches

Rotation Angle: about 120°
back and forth, 360° left and
right (Do not always turn on
one direction. It will turn the

connected line off)

Dilatation Head Diameter:

23mm

Expansion Head Length:

15mm

Insemination Catheter:

70cm

Outer Thimble (special
sheath): 70cm

【Performance】

Storage Space: up to 256G
memory card

Function: Photo, Video, Output
Print

Output: USB interface

Charging: Built-in battery, USB
charging

Continuous Working Time: 2h

【Product Specifications】

Packing: Aluminum alloy special box

Size: 570mm*275mm*150mm

Configuration:

1 x visual insemination gun

1 x set of charging equipment

10 x special outer thimbles

1 x insemination needle

5 x special expansion caps

1 x product manual

100 x disposable operating bags

Maintenance service

【General Clause】

In the case of normal use, there is a problem caused by the quality of the product itself. During the warranty period, our company will be responsible for giving one year of free maintenance service. If the product fails, please contact the after-sales technician directly.

When requesting repairs, you need to provide or present a product warranty card and we will charge you based on the date of purchase. Mostly it is free.

【Escape Clause (the following conditions are not covered by the warranty)】

- Damage due to the operation not in accordance with the manual.
- Damage due to improper operation (For example: rotate the screen on one direction continuously caused a disconnection)
- Damage caused by improper storage (For example: liquid infiltration)
- The product is not working properly due to the user's own modification of hardware or software.
- Failure or damage caused by unauthorized removal of the machine or unauthorized modification or abuse.
- Failure or damage caused by human or natural disasters.
- Burn out when it is charged or heated by other power source that do not match the voltage of this product. This product adapter is 5V.