

## GOYOJO B0CLP3GKN5

# GOYOJO Portable Veterinary Ultrasound Machine User Manual

Model: B0CLP3GKN5

## 1. INTRODUCTION

---

This manual provides essential instructions for the safe and effective operation, maintenance, and troubleshooting of your GOYOJO Portable Veterinary Ultrasound Machine. This device is designed for pregnancy testing and reproductive analysis in various animals, including cattle, horses, camels, equines, and cows, utilizing a 7.5 MHz rectal-linear probe.

## 2. SAFETY INFORMATION

---

Always adhere to standard veterinary safety protocols when using this equipment. Ensure the probe is clean and disinfected before and after each use. Avoid exposing the device to extreme temperatures, moisture, or direct sunlight. Do not attempt to open or repair the device yourself, as this may void the warranty and cause damage or injury. Use only the provided power adapter for charging.

## 3. PRODUCT OVERVIEW

---

### 3.1 Key Features

- **Versatile Animal Compatibility:** Suitable for cattle, horses, camels, equines, and cows.
- **Extensive Image Storage:** Built-in memory for up to 128 images and cineloops, with 16 chipsets for image processing.
- **Portable and Rechargeable:** Features a rechargeable battery for easy portability and a silicone case with a belt for protection.
- **Standalone Operation:** Functions independently without reliance on mobile device applications.
- **Real-time Display Options:** Multicolor display with an AV port for external monitor connection (up to 42 inches) and video printer compatibility.

### 3.2 Components

The GOYOJO Portable Veterinary Ultrasound Machine includes the main unit with a 5.6-inch LED medical display, a 7.5 MHz rectal-linear probe, a power adapter, and a silicone protective case.



Figure 1: GOYOJO Portable Veterinary Ultrasound Machine with 7.5 MHz Rectal-Linear Probe.

## 4. SETUP

---

### 4.1 Charging the Device

Before first use, fully charge the device using the provided power adapter. The 2600mAh battery provides approximately 3 hours of continuous operation. Connect the adapter to the charging port on the device and plug it into a suitable power outlet. The charging indicator will show the charging status.

### 4.2 Attaching the Probe

Carefully connect the 7.5 MHz rectal-linear probe to the designated port on the main unit. Ensure a secure connection to prevent signal loss during operation. Different probes are available for various animals; ensure the correct probe is used for the intended application.



Figure 2: Examples of different probes and their application for various animals.

## 5. OPERATING INSTRUCTIONS

---

### 5.1 Powering On and Initializing

Press the power button to turn on the device. The system will perform a self-check and display the main interface. The operating interface supports multiple languages including Chinese, English, French, Russian, Spanish, and Portuguese.



Figure 3: Powering on the device and entering the test mode.

## 5.2 Basic Operation Modes

The device supports various display modes: B, BB, 4B, BM, and M. Select the appropriate mode for your examination. Use the control panel to adjust settings such as total gain (0-255), near-field gain (-31-0), and far-field gain (0-31).

## 5.3 Electronic Focus and Image Adjustment

The electronic focus features four segments with adjustable focus positions. Image mirroring (left/right, up/down flip) and image post-processing (0-3), edge enhancement (0-3), brightness (0-31), image optimization (0-12), frame correlation (0-3), and contrast (0-63) can be adjusted for optimal image quality. The device also offers 24 kinds of pseudo-color processing.

## 5.4 Performing Examinations

Apply ultrasound gel to the probe and the animal's skin in the examination area. Gently place the probe on the animal and move it to obtain the desired image. The device includes body markers ( $\geq 12$  kinds) with adjustable probe body positions to aid in accurate scanning.

### Specific Usage Example: Pig Pregnancy Test

For primiparous and early gestation sows, place the probe approximately 5cm between the penultimate nipple and the third nipple. Adjust the probe at an angle of about 45 degrees towards the neck push direction. For multiparous sows in late gestation, where the uterus is closer to the abdominal wall, measurements can be taken between the third and fourth nipples from the bottom.



Figure 4: Probe positioning for pig pregnancy testing.

## 5.5 Measurement Functions

The device supports various measurements including distance, perimeter, area, and obstetrics. Specific animal measurement packages are available:

- **Cattle:** BPD (Biparietal Diameter), CRL (Crown-Rump Length), TD (Trunk Diameter)
- **Horses:** GSD (Gestational Sac Diameter), BPD, CRL
- **Pigs:** GSD, LOIN
- **Sheep:** CRL, BPD, TD
- **Dogs:** HD (Head Diameter), BD (Body Diameter), GSD, CRL

- **Cats:** HD, BD

Back fat measurement is available in 2 modes: automatic and manual. Grid adjustment with 2 types of spacing and 15 colors is also supported.



Figure 5: Ultrasound images demonstrating pregnancy detection at various stages and fetal heartbeat.

## 5.6 Image and Video Management

The device features 32GB of permanent storage for images and supports movie playback of up to 255 frames, with options for continuous playback or frame-by-frame viewing. Images can be stored and retrieved as needed.

Video 1: Demonstration of the GOYOJO Portable Veterinary Ultrasound Machine in use. This video illustrates the device's interface and scanning capabilities.

Video 2: Overview of the GOYOJO Portable Veterinary Ultrasound Machine's features and portability. This video highlights the compact design and ease of handling.

## 6. MAINTENANCE

---

### 6.1 Cleaning and Disinfection

Regularly clean the probe and the main unit with a soft, damp cloth. For disinfection, use veterinary-approved disinfectants suitable for ultrasound equipment. Ensure no liquid enters the device openings. Allow all components to dry completely before storage or next use.

### 6.2 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Store the device in a cool, dry place when not in use for extended periods, and ensure it has a partial charge (around 50%).

### 6.3 Storage

Store the ultrasound machine and its accessories in their original packaging or a protective case to prevent damage from dust, impacts, and environmental factors.

## 7. TROUBLESHOOTING

---

### 7.1 Common Issues

- **Device not powering on:** Ensure the battery is charged. Connect the power adapter and try again.
- **No image on screen:** Check if the probe is securely connected. Ensure the device is in an active scanning mode.
- **Poor image quality:** Adjust gain, focus, brightness, and contrast settings. Ensure sufficient ultrasound gel is applied and there are no air bubbles. Clean the probe surface.
- **Device freezes:** Perform a soft reset by holding the power button until the device restarts. If the issue persists, contact customer support.

## 7.2 One Key Parameter Recovery

If settings become problematic, use the 'One Key Parameter Recovery' function to restore default settings. Refer to the on-screen menu for this option.

## 8. SPECIFICATIONS

---

Feature	Specification
Display	5.6-inch LED Medical Display
Operating Interface Languages	Chinese, English, French, Russian, Spanish, Portuguese
Display Modes	B, BB, 4B, BM, M
Electronic Focus	Four segments, adjustable position
Image Mirroring	Left/Right, Up/Down Flip
Measurement Functions	Distance, Perimeter, Area, Obstetrics (Cattle, Horses, Pigs, Sheep, Dogs, Cats)
Movie Playback	255 frames, continuous or frame-by-frame
Permanent Storage	32GB
Gray Scale	256 levels
Battery Capacity	2600mAh (approx. 3 hours continuous work)
Total Gain	0-255
Near-field Gain	-31-0
Far-field Gain	0-31
Image Post-processing	0-3
Edge Enhancement	0-3
Brightness	0-31
Image Optimization	0-12
Frame Correlation	0-3
Contrast	0-63
Pseudo-color Processing	24 kinds
Body Markers	≥12 kinds, adjustable
Back Fat Measurement	2 modes (automatic, manual)
Grid Adjustment	2 kinds of spacing, 15 kinds of color

## 9. WARRANTY AND SUPPORT

---

For warranty information and technical support, please refer to the documentation included with your purchase or contact

GOYOJO customer service directly. Keep your purchase receipt as proof of purchase.