

CONTEC 80650

CONTEC ECG 300G VET 3-Channel Electrocardiograph User Manual

Model: 80650

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of the CONTEC ECG 300G VET 3-Channel Electrocardiograph. Please read this manual thoroughly before using the device and keep it for future reference.

Product Overview

The CONTEC ECG 300G VET is a sophisticated 3-channel electrocardiograph designed for veterinary use. It is capable of simultaneously acquiring signals from 12 leads and printing waveforms using an integrated thermal printing system. The device allows for recording and displaying ECG waveforms in both automatic and manual modes, featuring automatic parameter measurement and analysis. It incorporates synchronous collection and digital signal processing technology to ensure high-quality ECG waveforms, utilizing power frequency, baseline, and EMG filters. Key operational parameters such as 12-lead ECG display, print mode, sensitivity, print speed, and filter status are conveniently shown on the screen. The device offers various print modes and formats, including automatic and manual, with adjustable waveform length via a timed print function.

2. SAFETY INFORMATION

Important Safety Precautions:

- Always operate the device in accordance with the instructions provided in this manual.
- Ensure the device is connected to a properly grounded power source.
- Do not use the device in the presence of flammable anesthetics or other explosive atmospheres. This poses a significant explosion hazard.
- Only qualified personnel should operate and maintain this equipment.
- Regularly inspect cables and electrodes for damage before each use.
- Keep the device away from water and excessive moisture.
- Do not attempt to service the device yourself. Refer all servicing to authorized personnel.



Image Description: A close-up view of the CONTEC ECG 300G VET device. The image prominently displays the thermal printer paper slot on the left side and a warning label below it. The label clearly states "DANGER Possible explosion hazard if used in the presence of flammable anesthetics," emphasizing a critical safety precaution.

3. SETUP

3.1 Unpacking and Inspection

1. Carefully remove the ECG unit and all accessories from the packaging.
2. Inspect the device for any signs of damage that may have occurred during transit. If damage is found, contact your supplier immediately.
3. Verify that all components listed in the packing list are present.

3.2 Connecting Power

1. Ensure the device's power switch is in the OFF position.
2. Connect the power cord to the AC power inlet on the rear of the ECG unit.
3. Plug the other end of the power cord into a grounded electrical outlet.

- The device can also operate on its internal rechargeable battery. Ensure the battery is charged before initial use or if operating without AC power.



Image Description: A side view of the CONTEC ECG 300G VET device. This angle clearly shows the power input port on the right side, along with a power switch. On the left side, a multi-pin data connector (likely for lead connection) and a USB port are visible, indicating connectivity options.

3.3 Connecting Leads

- Locate the multi-pin connector for the patient lead cable.
- Align the connector carefully and plug it into the corresponding port on the side of the ECG unit.
- Ensure a secure connection.
- Attach the individual lead wires to the appropriate electrodes according to standard veterinary ECG lead placement protocols.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

- To power on, press the **ON/OFF** button located on the control panel.

2. The display will illuminate, and the system will perform a self-test.
3. To power off, press and hold the **ON/OFF** button until the device shuts down.



Image Description: A top-down view of the CONTEC ECG 300G VET. The image prominently displays the device's control panel with various buttons, including ON/OFF, MODE, SEN (Sensitivity), SPEED, PRINT, FILTER, and SET, along with directional arrows. A color display screen is also visible, showing graphical user interface elements. The thermal printer output slot is on the left.

4.2 Basic Operation Modes

The ECG 300G VET supports both automatic and manual operation modes for recording and displaying ECG waveforms.

- **Automatic Mode:** The device automatically measures and analyzes parameters, providing a comprehensive report.
- **Manual Mode:** Allows the user to manually control recording and printing, offering flexibility for specific diagnostic needs.

Use the **MODE** button to switch between available modes.

4.3 Adjusting Settings

The control panel features dedicated buttons for adjusting key parameters:

- **SEN (Sensitivity):** Adjusts the amplitude of the ECG waveform.
- **SPEED:** Controls the print speed of the thermal recorder, affecting the horizontal scale of the waveform.
- **FILTER:** Activates or deactivates various filters (power frequency, baseline, EMG) to reduce artifact interference and improve signal quality.
- **PRINT:** Initiates or stops the thermal printing process.
- **SET:** Used to enter menu options and confirm selections, often in conjunction with the directional arrow buttons.



Image Description: A detailed close-up of the CONTEC ECG 300G VET's control panel and display. The screen shows a graphical representation of an ECG waveform and menu icons. The buttons for START/STOP, MODE, 1mV (sensitivity), PRINT, ON/OFF, SEN, SPEED, FILTER, and SET with directional arrows are clearly visible, indicating the primary user interface for device control.

4.4 Printing ECG Waveforms

1. Ensure thermal paper is correctly loaded into the printer slot.
2. Select the desired print mode (automatic or manual) and adjust sensitivity and speed as needed.
3. Press the **PRINT** button to begin printing the ECG waveform.

- The waveform length can be adjusted using the timed print function, accessible via the **SET** menu.

5. MAINTENANCE

5.1 Cleaning the Device

- Always power off and unplug the device before cleaning.
- Wipe the exterior surfaces of the unit with a soft cloth dampened with a mild, non-abrasive disinfectant.
- Do not allow liquids to enter the device.
- Clean the thermal print head regularly with a specialized cleaning pen or isopropyl alcohol to ensure optimal print quality.

5.2 Battery Care

- Recharge the internal battery regularly, even if the device is not in frequent use, to maintain battery life.
- Avoid fully discharging the battery whenever possible.
- If the device will be stored for an extended period, charge the battery to approximately 50% and store in a cool, dry place.

5.3 Lead and Electrode Care

- Inspect lead wires and electrodes for wear, cracks, or damage before and after each use.
- Clean electrodes thoroughly after each use to remove gel residue and ensure good conductivity.
- Replace damaged leads or electrodes immediately to ensure accurate readings and patient safety.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	No power, discharged battery, faulty power cord.	Check power connection, charge battery, replace power cord if damaged.
Poor ECG signal quality / Excessive noise.	Poor electrode contact, damaged leads, electrical interference, incorrect filter settings.	Ensure proper electrode placement and skin preparation, check lead integrity, move device away from other electrical equipment, adjust filter settings.
Printer not printing.	No thermal paper, paper loaded incorrectly, print head dirty, printer malfunction.	Load new thermal paper, ensure correct orientation, clean print head, contact support if issue persists.
Display is blank or frozen.	Software error, hardware malfunction.	Try restarting the device. If the problem persists, contact technical support.

7. SPECIFICATIONS

Feature	Detail
Manufacturer	QINHHUANGDAO CONTEC MEDICAL SYSTEMS
Model Number	80650
ASIN	B0CMJ3YR2C

Feature	Detail
Channels	3-channel acquisition and printing
Lead Acquisition	Simultaneous 12-lead signal acquisition
Printing System	Thermal printing system
Operation Modes	Automatic and Manual
Signal Processing	Digital signal processing with power frequency, baseline, and EMG filters
Display	Screen display for ECG waveforms, print mode, sensitivity, print speed, filter status
Dimensions (Package)	40.4 x 29.7 x 20.7 cm
Weight (Package)	2.95 kg
Guaranteed Software Updates Until	Unknown

8. WARRANTY AND SUPPORT

8.1 Warranty Information

Specific warranty terms and conditions for the CONTEC ECG 300G VET are typically provided with the product at the time of purchase. Please refer to the warranty card or documentation included in your product packaging for detailed information regarding coverage, duration, and claims procedures. Keep your proof of purchase for warranty validation.

8.2 Technical Support

For technical assistance, troubleshooting beyond this manual, or service inquiries, please contact your authorized CONTEC distributor or the manufacturer directly. Contact information can usually be found on the product packaging, the manufacturer's official website, or in the accompanying documentation.