Ongo Vision with Android App Manual

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Scan the QR code and download the **ONGO VISION** android application

Introduction

Purpose of the Manual

This manual serves as a comprehensive guide for the setup, operation, and maintenance of the Ongo Vision System. It aims to ensure users can effectively leverage the system's capabilities while adhering to safety standards and compliance requirements. Whether you are setting up the device for the first time, conducting semen analysis, or seeking to troubleshoot, this manual provides all the necessary instructions and insights to optimize your use of the Ongo Vision System.

Overview of the Ongo Vision System

The Ongo Vision System represents a significant advancement in the field of semen analysis, offering a portable digital microscope solution that is unparalleled in its capabilities. Key features include a patented optical system with autofocus and digital zooming, a heating stage for maintaining samples at body temperature, and specially calibrated two-chamber slides designed to enhance the accuracy and reliability of analyses. The system's compatibility with Android, Linux, and Windows platforms, along with its commitment to privacy protection through local data calculations and storage, sets a new standard in the industry. Without the need for an internet connection after installation, users can securely save, review, and share video and result data as needed. Built on standard computer-aided semen analysis

methodology validated by Bland-Altman statistics, the Ongo Vision System offers precision and ease of use for professionals across various fields.

Intended Use

The Ongo Vision System is optimized for analyzing fresh, cooled, and post-thaw semen samples at concentrations within the range of 5 – 100 million sperm cells/ml. It is specifically designed to support a wide range of species, including bull, boar, deer, dog, fish, goat, stallion, mouse, poultry, rabbit, and ram. This versatility makes it an invaluable tool for professionals working across different domains of animal reproduction, ensuring precise and reliable semen analysis across various conditions and species.

Target Audience

The Ongo Vision System is designed to meet the needs of a diverse group of professionals, including veterinarians, livestock breeders, and research scientists. Its versatility, ease of use, and comprehensive functionality make it suitable for all these groups, providing a reliable tool for semen analysis that contributes to advanced reproductive practices and research.

Safety Information

Ensuring the safe operation of your Ongo Vision system is paramount. This section outlines necessary precautions and safety measures to protect both the user and the device. Please read these instructions carefully before operating the system.

General Safety Precautions

Electrical Safety: To prevent the risk of electric shock or damage to the device, do not attempt to open or modify the Ongo Vision system. Verify that the power supply input voltage matches the voltage available in your area. If uncertain about your power source's voltage, consult your local power company.
Avoid Exposure to Liquids: The device is not waterproof. Do not place it in locations where it might become wet or exposed to moisture, as this could damage the system or lead to electric shock.
Environmental Conditions: Protect the device from dust, humidity, and extreme temperatures. Ensure that the operating environment is stable and within the recommended conditions to prevent damage or malfunction.

Device-Specific Safety Measures

Cable and Connector Safety: Before operation, check all cables and connectors to ensure they are intact and correctly connected. Damaged cables should be replaced immediately to avoid potential hazards.
Avoiding Short Circuits: Keep conductive materials such as paper clips, screws, and staples away from connectors, slots, sockets, and exposed circuitry to prevent short circuits.
Stable Placement: Always place the Ongo Vision system on a stable, horizontal surface to prevent accidental falls or tipping, which could result in damage to the device or injury.
Heated Stage Caution: Be aware that the stage for slides may reach temperatures of 37 - 38°C. Avoid direct contact with the surface when hot to prevent burns.

Contraindications and Warnings

Technical Issues: In the event of technical problems, do not attempt to repair the system yourself. Contact a qualified service technician or your retailer for assistance. Unauthorized attempts to repair the device may void the warranty and could pose safety risks.

Product Overview

CAUTION: To ensure the seamless operation of the Ongo Vision System with the Android App, please note the following requirements:

Android Version and Device Compatibility: The Android device must be running version 8 or higher and must be equipped with a communication port that supports USB 3.0 or higher. It is essential to verify your Android device's compatibility before using the system.
App Functionality: The Android App is designed to work exclusively in conjunction with the Ongo Vision device. Without the Ongo Vision device connected, the app will not offer any functionality. This integration is crucial for accessing and utilizing the full range of features provided by the Ongo Vision System.
Please check your Android device's specifications to ensure compatibility and remember that the system's functionality is dependent on the connection between the Ongo Vision device and the Android App.

Components of the Ongo Vision System

The system includes the following components, ensuring you have everything needed for precise and efficient semen analysis:

Protective Case: Durable carrying case with shaped protective foam inserts for secure storage and transport of the device and accessories.

Ongo Vision Mobile Digital Microscope with Heated Stage: The core of the system, featuring a USB-C charging socket, USB A 3.0 socket for computer connection, a heated slide stage, and an indicator LED light on top for charging level and readiness. The LED light displays charging status (green for fully charged, yellow for medium charge, red for low charge) and readiness (blue indicates the device is ready to use). CAUTION: The heated stage surface can become hot.
Ongo Slides Box: Includes 25 pcs of 2 chambered slides, sufficient for 50 measurements. **CAUTION:** Ongo Vision System is designed to work exclusively with Ongo Slides for accurate sperm characteristic analysis. **Using different slides than Ongo Slides will compromise accurate concentration readings and overall analysis accuracy.**
Cables: Cables: Includes a USB-AA 3.0 cable for connecting the microscope to a computer, a USB-AC OTG adapter for connecting to a smartphone or tablet, and a USB-CA charging cable designed exclusively for power supply (not for data communication).

Specifications of the Ongo Vision Device

Dimensions: 125mm x 81mm x 98mm
Weight: 453g
Power Supply: USB-C charger, 5V output, minimum 1A (provided upon request)
Battery: Li-ion, 3.7 V, 3400 mA, with a battery life of 1 - 2.5 hours, depending on operating conditions
Optical Unit: Magnification of 200x
Heated Stage Temperature Range: 37 - 38°C (species-dependent)
Analysis Duration: varies from 30 to 50 seconds, depending on external temperature, required heating to achieve species-dependent optimal temperature, and sample density.
Results Display: Includes cell count, concentration (mL), progressive motility (%), and total motility (%)
Data Export Options: .csv, .pdf, .mp4, or .avi depending on operating system.

Overview of the Ongo Vision Android App

The accompanying Android App enhances the functionality of the Ongo Vision System with features including:
Customizable Settings: Species, user ID, animal ID, sample collection date, and additional remarks.
Advanced Imaging: Autofocus with digital focus adjustments and light or illumination adjustments.
Slide Authentication: Ensures compatibility with Ongo Slides.
Interactive Analysis: Live view for selecting the field of interest, drop or repeat measurements, and average calculation for repeated analyses.
Data Management: Save data to a user-selected folder on your Android device and share it via Android's functionality.

Installation and Setup

Efficient setup is key to maximizing the performance of your Ongo Vision System. This section guides you through the initial device setup, installing the Android App, and connecting the device to the Android App.

Initial Device Setup

1. Unpacking: Carefully remove the Ongo Vision device and its accessories from the protective case. Verify that all components are present and in good condition.
2. Charging: Before first use, check the charging level indicator on top of the Ongo Vision device. If the indicator shows red, connect the device to a power source using the USB-C charger cable provided. Charge until the indicator shows green, indicating a full charge.
3. No Firmware Updates or Calibration Needed: The Ongo Vision device is designed to be ready for use without the need for initial firmware updates or calibration, allowing you to start your analyses with minimal setup.

Installing the Android App

1. Finding the App: On your Android device, open the Google Play Store and search for "Ongo Vision."
2. Installation: Select the Ongo Vision app from the search results and tap "Install." Wait for the app to download and install on your device.
3. Initial Permissions: Upon opening the app for the first time, you may be prompted to grant certain permissions, including access to the device's storage. Accept these permissions to ensure the app functions correctly.
4. Selecting Result Folder Location: Before starting the measurement process, the app will require you to select and enable a result folder location on your Android device. This location will be used to save analysis videos and result data.

Connecting the Device to the Android App

1. Power On: Switch on the Ongo Vision device by pressing the Power ON/OFF button.
2. Connecting the Cable: Attach the USB-A - USB-A 3.0 cable to the lateral side of the Ongo Vision device. Then, connect the other end with OTG adapter USB 3.0 A-C cable to your Android device.
3. External Device Acceptance: After connecting, your Android device may prompt you to accept the Ongo Vision as an external device selecting the always allow option. Confirm this to establish a successful connection between the Ongo Vision device and the Android App.

Operating Instructions

Successfully conducting semen analyses with the Ongo Vision System involves several key steps, from sample preparation to result interpretation. This guide provides a comprehensive overview to ensure precision and accuracy in your analyses.

Preparing Samples for Analysis

1. Dilution: To adhere to the technological limitations of CASA for cell density assessment, ensure semen samples are diluted to fall within the range of 5 – 100 million sperm cells/ml, with an optimized range of 10 – 80 million sperm cells/ml. Utilize the suggested dilution rates based on species-specific semen density. For large volume samples, such as 100 ml pig sperm, homogenize the liquid by performing 3-4 slow upside-down movements to ensure even distribution. **CAUTION:** Accuracy has been tested only in transparent mediums. Using milk or other particle-dense diluents could compromise accuracy.
2. Slide Preparation: Place an unused slide on the heated stage's periphery to warm it to body temperature, ensuring the chambers are upside down. Use appropriate tools to deposit about 5 microliters of semen at the chamber's opening, indicated by an arrow. The fluid will automatically be drawn into the chamber. Remove any excess fluid with a cloth to prevent sample drift.

Conducting an Analysis

1. Device and App Setup: Ensure the Ongo Vision device is powered on and connected to your Android device. Open the Ongo Vision App and verify that all settings, including species and IDs, are correctly adjusted.
2. Sample Loading: Place the slide with the prepared sample on the heated stage, ensuring proper alignment.
3. Starting the Analysis: Initiate the analysis by pressing "Start" in the app. The device will automatically focus on the sample. Manually adjust focus and illumination as needed. **CAUTION:** To achieve the best accuracy, ensure the contrast between the sperm and background is the sharpest, ideally with the sperm appearing black against a grey background.
4. Viewing and Selecting: Use the live view to scan the chamber for a suitable field of view. Once identified, press "Continue" to begin recording and analysis.
5. Repeating Measurements: Depending on the initial results, you may choose to "Drop & Repeat" or "Save & Repeat" the measurement for enhanced accuracy, aiming for a cumulative cell count of around one thousand.

Interpreting Results

Results are displayed in the app's left panel for management and identification, with the right panel showing detailed current measurements (actual, ACT) and averages from repeated

measurements (average, AVG), including cell count, concentration, and motility percentages. Pre-dilution concentration calculations require inputting the sample-to-dilution ratio. To review the full results on both panels, you need to scroll down. For detailed semen quality interpretation, adhere to species breeding-standard protocols.

Manual Pitch Zooming for Detailed Examination

The Android App allows for manual pitch zooming using two fingers, enabling in-depth examination of sperm morphology. For optimal use of this feature, apply standard smartphone zoom gestures for a closer look at sperm structure, following breeding standards for morphology interpretation.

Data Structure and Storage

The Ongo Vision System organizes and stores all measurement data in a structured manner for easy access, review, and analysis. This section details the storage conventions used by the system.

Directory Structure

All measurements are automatically saved to the user selected designated folder on your device, following a specific path for organization:
Path: `.../donor_id/measurement_date/sample_id/`
For example, a measurement for the donor "raro" taken on February 06, 2024, with the sample ID 6, will be stored as:
Example Path: `~/Documents/raro/2024_02_06/6/`

This folder will contain all data related to a single sample (e.g., sample ID 6). If the measurement was repeated twice, the folder will include:
Videos: Measurements are saved in AVI format, with file names indicating the donor, sample ID, repetition number. For example:
- `raro_6_0.avi`
- `raro_6_1.avi`

CSV File: A TXT file named after the measurement and results, such as `raro_6_0_avi_results.txt`, provides detailed analysis results in a format that can be imported into spreadsheet software.
PDF Report: A comprehensive report in PDF format, named in the format `raro_6_report.pdf`, summarizing the analysis results.

Global Results File

In addition to individual sample directories, a global CSV file named `ONGO_results.csv` is saved within the selected Documents `.../Documents/...` folder. This file compiles all results, facilitating easy import into Excel or other spreadsheet programs for further data analysis.

Maintenance and Cleaning

Proper maintenance and cleaning are crucial for ensuring the longevity and optimal performance of your Ongo Vision System. Following these guidelines will help maintain the system's condition and functionality.

Routine Maintenance Procedures

The Ongo Vision System is designed to require minimal routine maintenance, freeing you from regular checks for wear and tear. However, staying updated with software upgrades is essential for optimal performance and access to new features. Regularly check the app for any software update notifications and install them as necessary to keep your system up to date.

Cleaning the Device and Accessories

To maintain the cleanliness and functionality of the Ongo Vision microscope and its accessories, adhere to the following recommendations:
General Cleaning: Use a dry, smooth cloth for general cleaning of the device's exterior. Ensure the cloth is clean and free of debris that could scratch the surface.
Water and Temperature: Protect the microscope from water exposure and avoid using or storing it in temperatures outside the range of 0-50°C. The device's optimal operating temperature is between 0-30°C.

Device Storage

Transport Case: Always store the Ongo Vision System in its transport case with the provided padding. This protects the device from physical damage and dust when not in use or during transportation.
Battery Care: If the system will not be used for an extended period, be aware that the battery may gradually drain. It's recommended to fully charge the device before long-term storage and periodically recharge the battery if the system remains unused to maintain battery health.

Troubleshooting

This section addresses common issues that may arise during the use of the Ongo Vision system, providing practical solutions to ensure uninterrupted operation and accurate analysis.

Common Issues and Solutions

DRIFT: If you notice excessive movement of objects in one direction (drift), wait a few seconds after filling the chamber to allow any drift from filling to subside. Use exactly 5 µl of the sample and ensure no excess semen remains after filling. Place the device on a level surface and avoid disturbing it during measurements.
LOW CELL NUMBER: Should you encounter the "LOW_CELL_NUMBER" message, verify that the Ongo slide is correctly placed and the chamber is fully filled with a 5µl sample. Ensure the sample is not over-diluted, affecting cell count visibility.
LOW MOTILITY: A "LOW_MOTILITY" alert indicates very few or no moving cells detected, suggesting the sample might be dead or providing statistically unreliable results. Consider assessing the sample's viability.
TOO DENSE: Receiving a "TOO DENSE" notification means the sample's concentration exceeds the optimal analysis range. Further dilution of the sample is required for accurate measurement.
ONGO SLIDE ERROR: Ongo slides are authenticated upon heating. If authentication fails, check the slide's position to ensure proper placement.
Errors like camera connection issues may occasionally occur. The app will attempt to reconnect upon pressing "OK." If issues persist, try switching the Ongo Vision device off and on again, or disconnect and reconnect the Android device.

When to Contact Support

If any error messages persist or you encounter problems not covered in this guide, please reach out to our support team for assistance. We're here to help with any issues or questions you may have.
Contact Information: Visit our support page at https://ongovettech.com/ or email us directly at info@ongovettech.com.

Support Availability

Our support team is available during working hours and strives to respond as quickly as possible. While we aim for prompt assistance, please allow some time for us to address your concerns thoroughly.
Language Support: Currently, support is primarily offered in English to ensure clear and effective communication.

Warranty and Support

Warranty Information

Ongo Vettech Ltd. provides a comprehensive warranty for the Ongo Vision System, ensuring reliability and satisfaction for our users.

Warranty Period: The Ongo Vision system and its manufactured components are warranted against defects in material and workmanship under normal use and service for one (1) year from the date of shipment.

Repair Warranty: Goods repaired under warranty are covered for the remainder of the original warranty or ninety (90) days from the date of the delivery of repaired goods, whichever is longer.

Extended Manufacturer Warranties: For components not manufactured by Ongo Vettech Ltd., the warranty terms provided by the original manufacturer apply.

Warranty Void Conditions

The warranty does not cover damages resulting from misuse, abuse, accidents, unauthorized repairs or modifications, improper installation, failure to follow operating instructions, wear and tear from abnormal use, acts of God, or extreme weather conditions. Incidental or consequential damages are not covered under this warranty.

For warranty service, notify Ongo Vettech Ltd. within the warranty period and return the defective goods to the specified location, with transportation prepaid by the Buyer. Ongo Vettech Ltd. will repair or replace defective goods at no cost to the Buyer. Check detailed Warranty at Appendix.

Technical Support and Customer Service Contacts

For technical support, warranty claims, or customer service inquiries, please reach out to us through the following channels:

Email: info@ongovettech.com

Support Page: Visit https://ongovettech.com for FAQs, product documentation, and more.

Please provide as much detail as possible regarding your inquiry or issue to help us serve you better. No registration process is required to contact support.

Ordering Supplies and Accessories

To order additional supplies or accessories, such as Ongo Slides, please contact us via the info@ongovettech.com email address or through our website. Depending on your location, we may direct you to an exclusive distributor in your country for supplies.

Ordering Guidelines

To ensure uninterrupted operation, we recommend maintaining a 2-4 week supply based on your usage rate. Planning your orders in advance helps avoid potential delays in your analysis work.

Software Updates

Keeping your Ongo Vision system updated ensures optimal performance, access to the latest features, and enhanced security. This section covers how to manage software updates for the Android App.

Checking for Updates

Ongo Vettech Ltd. proactively notifies customers of available updates via their preferred contact method. To stay informed about the latest updates and news:

Automatic Notifications: You don't need to manually check for updates. We will notify you of any available updates through your preferred contact channel.

Stay Informed: We recommend signing up for our newsletter at https://ongovettech.com/. Additionally, treat the Ongo Vision App like any other app on your device by periodically checking for updates in the Google Play Store.

Updating the Android App

Updating the Ongo Vision App is straightforward and follows the standard process for app updates on the Google Play Store:

1. Notification: When an update is available, you'll typically receive a notification from the Google Play Store.

2. Update Process: Open the Google Play Store app, go to "My apps & games," find the Ongo Vision App, and tap "Update." If you have auto-updates enabled, the app will update automatically.

3. Data Backup: Prior to updating, we recommend backing up your analysis data on your local Android device following standard Android data backup protocols. The Ongo Vision App does not collect or store your data, ensuring your privacy and data security.

4. After Updating: There's no need to restart your device after updating the app. You can continue using the app and device as usual immediately after the update.

Regulatory Compliance

The Ongo Vision system is designed to meet high standards of quality and regulatory compliance, ensuring safe and effective use in veterinary diagnostics. This section outlines our adherence to regulatory bodies, standards, and our commitment to legal, ethical, and environmental responsibilities.

Compliance and Standards

CE Certification: The Ongo Vision system, including the Ongo Vision mobile digital microscope and Ongo Slides, complies with CE marking requirements, affirming its conformity with health, safety, and environmental protection standards for products sold within the European Economic Area (EEA). For detailed information visit https://ongovettech.com/documents.

Legal and Ethical Considerations

Data Privacy and Security: In alignment with global data protection laws, including the GDPR for users within the European Union, the Ongo Vision Android App adheres to strict privacy policies and terms and conditions concerning the collection, storage, and sharing of analysis data. Users are encouraged to review the Ongo Vision Android App Privacy Policy and Terms and Conditions available on our website https://ongovettech.com/ongo-vision-android-app-privacy-policy and https://ongovettech.com/ongo-vision-android-app-privacy-policy for comprehensive information on our data handling practices.

Environmental Compliance

Electronic Waste and Recycling: In accordance with environmental regulations concerning electronic waste and hazardous materials, the Ongo Vision system and its components must not be disposed of with household waste. Users are advised to dispose of the product at designated recycling facilities. For information on responsible disposal practices and local regulations regarding electronic waste and used slide handling, please consult your local environmental authorities.

Appendix

Glossary of Terms

CASA (Computer Assisted Sperm Analysis): A technology used for automating the semen analysis process, including the measurement of sperm concentration, motility, and morphology.
CE Marking: A certification mark that indicates conformity with health, safety, and environmental protection standards for products sold within the European Economic Area (EEA).
Drift: A phenomenon in semen analysis where sperm cells move in one direction due to fluid motion, potentially affecting measurement accuracy.
GDPR (General Data Protection Regulation): A regulation in EU law on data protection and privacy in the European Union and the European Economic Area.
Optical Unit: The component of the Ongo Vision system responsible for magnifying and capturing images of the sperm sample.

Pitch Zooming: A manual method of zooming in or out on a digital image, typically performed by moving two fingers apart or together on a touchscreen.

FAQ

1. How do I prepare semen samples for analysis?
Dilute semen samples according to the recommended concentration ranges for specific species to ensure accurate measurement.
2. What should I do if I encounter an error message during analysis?
Refer to the troubleshooting section for solutions to common error messages such as "DRIFT," "LOW_CELL_NUMBER," "LOW_MOTILITY," and "TOO DENSE."
3. How often does the Ongo Vision system require maintenance?
The system is designed to require minimal routine maintenance. Regular software updates and proper cleaning are the main requirements.
4. Can I use slides from other manufacturers with the Ongo Vision system?
No, the system works and counts sperm characteristics only with Ongo Slides due to calibration and compatibility requirements.
5. How do I update the Android App?
Updates can be performed through the Google Play Store following standard app update procedures. Users are notified of updates via their preferred contact channel.

Technical Specifications

Dimensions: 126mm x 79mm x 98mm
Weight: 453g
Power Supply: USB-C charger, 5V output, minimum 1A
Battery: Li-ion, 3.7 V, 3400 mA; Battery life: 1 - 2.5 hours
Optical Unit: Magnification of 200x
Heated Stage Temperature Range: 37 - 38°C (species-dependent)
Analysis Duration: 30 - 50 seconds
Results Display: Cell count, concentration (mL), progressive motility (%), total motility (%)
Data Export Options: .csv, .pdf, .avi
Compliance: CE Marked for veterinary diagnostic devices
Environmental: Product must be disposed of at a recycling facility, not in household waste.

Warranty

Ongo Vettech Ltd. warrants that new goods described herein and manufactured by Ongo Vettech Ltd. are free from defects in material and workmanship under normal use and service, normal wear and tear for which the products were designed for one (1) year from the date of shipment.

Ongo Vettech Ltd. warrants that goods repaired by it pursuant to the warranty are free from defects in material and workmanship for a period to the end of the original warranty or ninety (90) days from the date of delivery of repaired goods, whichever is longer.
Warranties on goods not manufactured by Ongo Vettech Ltd., are expressly limited to the terms of the warranties given by the manufacturer of such goods.

All warranties are void in the event that the goods or systems are:

I. Misused or otherwise abused, whether such misuse or abuse is intentional or due to negligence or accident.
II. Damaged, repaired, altered or modified without Ongo Vettech Ltd.'s consent
III. Not properly installed, maintained or inappropriately operated in strict compliance with instructions furnished by Ongo Vettech Ltd.
IV. Worn, damaged from abnormal use in operation or service
V. Subjected to acts of God, or extreme weather phenomenon including, but not limited to flood, lightning, tornado, hurricane, earthquakes, solar flares, or extreme temperatures exceeding device specifications.
VI. Subjected to intentional acts including, but not limited to vandalism, sabotage, or acts of terrorism.

THESE WARRANTIES ARE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED (INCLUDING WITHOUT LIMITATION WARRANTIES AS TO MERCHANT ABILITY AND FITNESS FOR A PARTICULAR PURPOSE), AND NO WARRANTIES, EXPRESSED OR IMPLIED, NOR ANY REPRESENTATIONS, PROMISES, OR STATEMENTS HAVE BEEN MADE BY ONGO VETTECH Ltd. UNLESS ENDORSED HEREIN IN WRITING. FURTHERMORE, THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.
Any warranties beyond those set forth herein must come directly from Ongo Vettech Ltd.
Any warranties beyond those set forth herein must come directly from Ongo Vettech Ltd.
Buyer's sole remedy for breach of any warranty is limited exclusively to repair or replacement without cost to Buyer of any goods or parts found by Seller to be defective if Buyer notifies Ongo Vettech Ltd. in writing of the alleged defect within the warranty period stated above, and if the Buyer returns such goods to the Ongo Vettech Ltd. Corporate office, or to different location designated by Ongo Vettech Ltd., with transportation prepaid by the Buyer, within thirty (30) days of sending of such notification and which upon examination by Ongo Vettech Ltd. Proves to be defective in material and workmanship. Ongo Vettech Ltd. Is not responsible for any costs of removal, dismantling or reinstallation of allegedly defective or defective goods.
Under no circumstances will Ongo Vettech Ltd. be liable for incidental or consequential damages resulting from breach of any agreement relating to items subject to this warranty, from use of the information herein or from the purchase or use by Buyer, its employees or other parties of goods sold under said agreement.