WHISPER®
ON ARRIVAL

USER MANUAL

WHISPER® VETERINARY DEVICE

Allflex
Livestock Intelligence

MERCK
Animal Health

GENERAL DESCRIPTION

The Whisper On-Arrival system is composed of both hardware and software components. The Whisper Veterinary device works in conjunction with a wireless-based application that is installed and run on a chute-side computer (tablet). Individual animal body weight and rectal temperature are entered by the operator in the tablet and the thoracic (i.e. chest) sound data is captured by the device and transmitted to the tablet. A machine-learning algorithm utilizes the information to predict the risk of BRD and provide the user with a BRD control decision (i.e. Treat or Do Not Treat).

DEVICE CONSTRUCTION

The device is constructed of plastic, rubber and metal materials to ensure the protection of the electronics from adverse environmental conditions which may include moisture, environmental temperature, shock and vibration. Sound absorbing materials are used on the exterior of the device to minimize interference from external noises within the processing barn and capture a clear sound from the heart and lungs of the animal. The device is composed of a head and a handle that are connected by a padded shaft.

The head includes six sound sensors, a charge port, a rechargeable lithium battery and a swivel connection. To charge the lithium battery, plug the charger into the connector on the front of the head, behind the door. Once the charger is connected, the LED light on the handle will flash in 5 second intervals. When the battery is fully charged, the flashing LED light will not rapidly blink even though the charger may still be plugged in.

The handle contains two recording buttons for convenience, as both buttons perform the same functions. The handle houses the LED lights that are powered by two standard AAA alkaline type batteries that should last a few months in normal operation and storage conditions.

NOTE

The lithium batteries are shipped from the manufacturer in a low charge state. BEFORE FIRST USE, ensure the battery is fully charged.

OPERATING THE DEVICE

To turn the device on, push and release either button on the handle. The blue LED light will come on for approximately 4 seconds and then turn off. The head communicates with the handle wirelessly. When the handle and the head are communicating properly, the light will blink green in 5 seconds intervals. If the communication has been lost or the head has gone into sleep mode, the indicator will blink blue. To "wake up" the paddle and/or to reestablish communication to the app, press either button on the handle.

NOTE

To ensure optimal performance, only one device should be on at any given time. Having multiple devices on may interfere with data transfer and create challenges with app functionality.

CLEANING THE DEVICE

Maintaining the cleanliness of the device will help ensure optimal performance, functionality and will extend the life of the equipment. It is advised that it is cleaned at the end of each processing day.

To clean the device, use water from a hose or a faucet to rinse off the handle, the padded shaft and the head. Use a soft rag (or your hand) to assist in removing all dirt from the device.

NOTE

DO NOT clean the device with a high-pressure sprayer or submerge it under water (such as in a bucket).

The charger cover on the device must be seated in the charge connector in order to seal the connector properly and prevent water intrusion.

CHARGING THE DEVICE

At the end of each processing day (or anytime the system is not in use), we recommend plugging the charger into the head to ensure enough power is available for the next processing session. Plug the charger into the end of the head of the device. Once connected, the LED light on the handle will turn off and on in 5 second intervals (rapid blinks).

SPECIFICATIONS GENERAL

POWER

Handle	1,5 Vdc AAA alkaline battery
Head	3.7 Vdc Rechargeable battery pack
Wall Charger	90 to 240Vac 50 to 60 Hz

PHYSICAL I ENVIRONMENTAL

Dimensions:	30.5" x 4.0" x 1.5"
Weight:	1.75 lbs.
Material:	Plastic, Rubber and Metal
Color:	Silver, Green and Black
Operating Temperature	0 to 70°C or 32 to 158°F
Bluetooth radio frequency	2.4 GHz Bluetooth 5 and Bluetooth mesh multiprotocol SoC

Model: 2020WOA1
FCC ID: 2AUHW-2020WOA1

Changes or modifications not expressly approved by Merck Animal Health could void the user's authority to operate the equipment.

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.