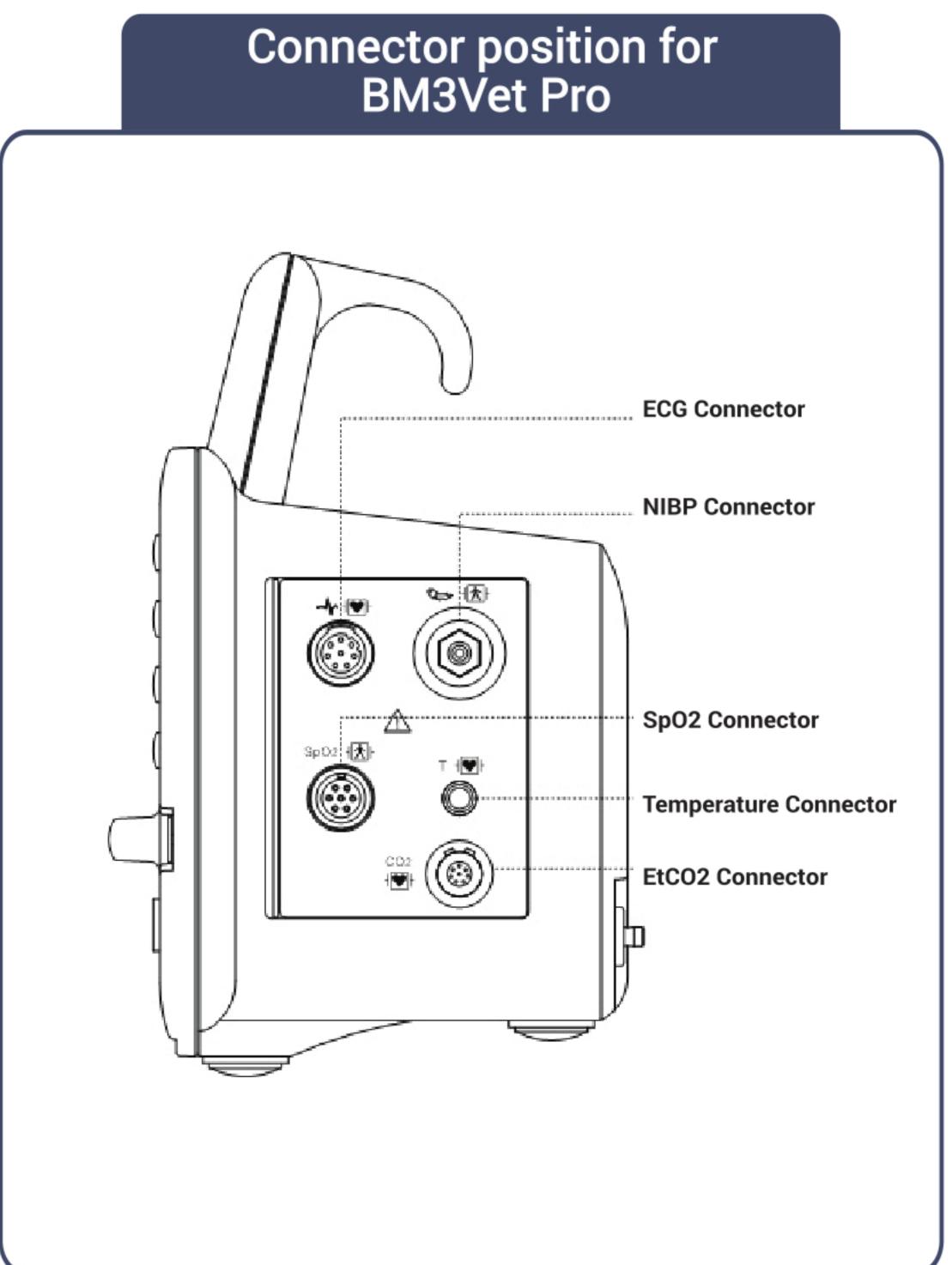


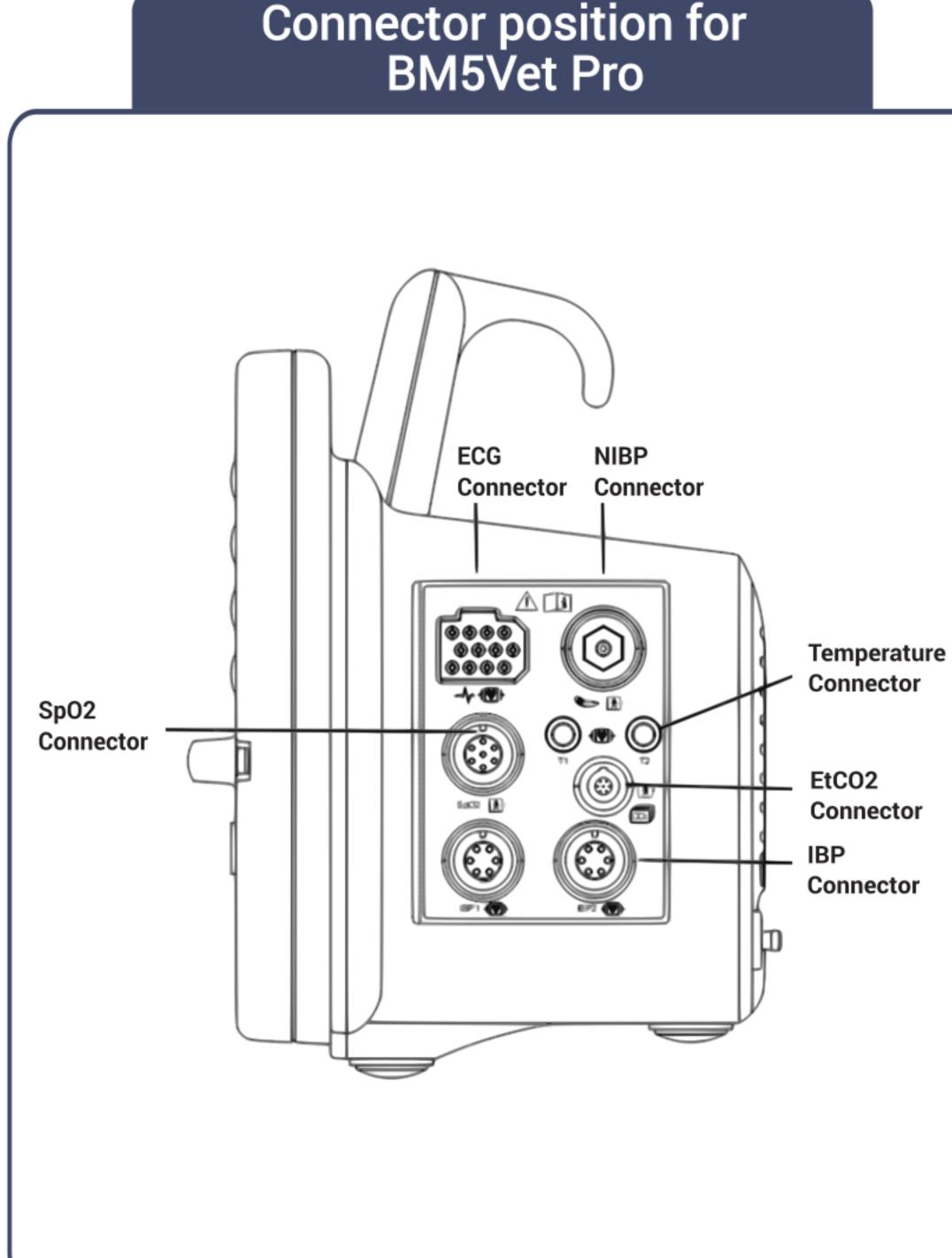
# VETERINARY MONITOR QUICK GUIDE

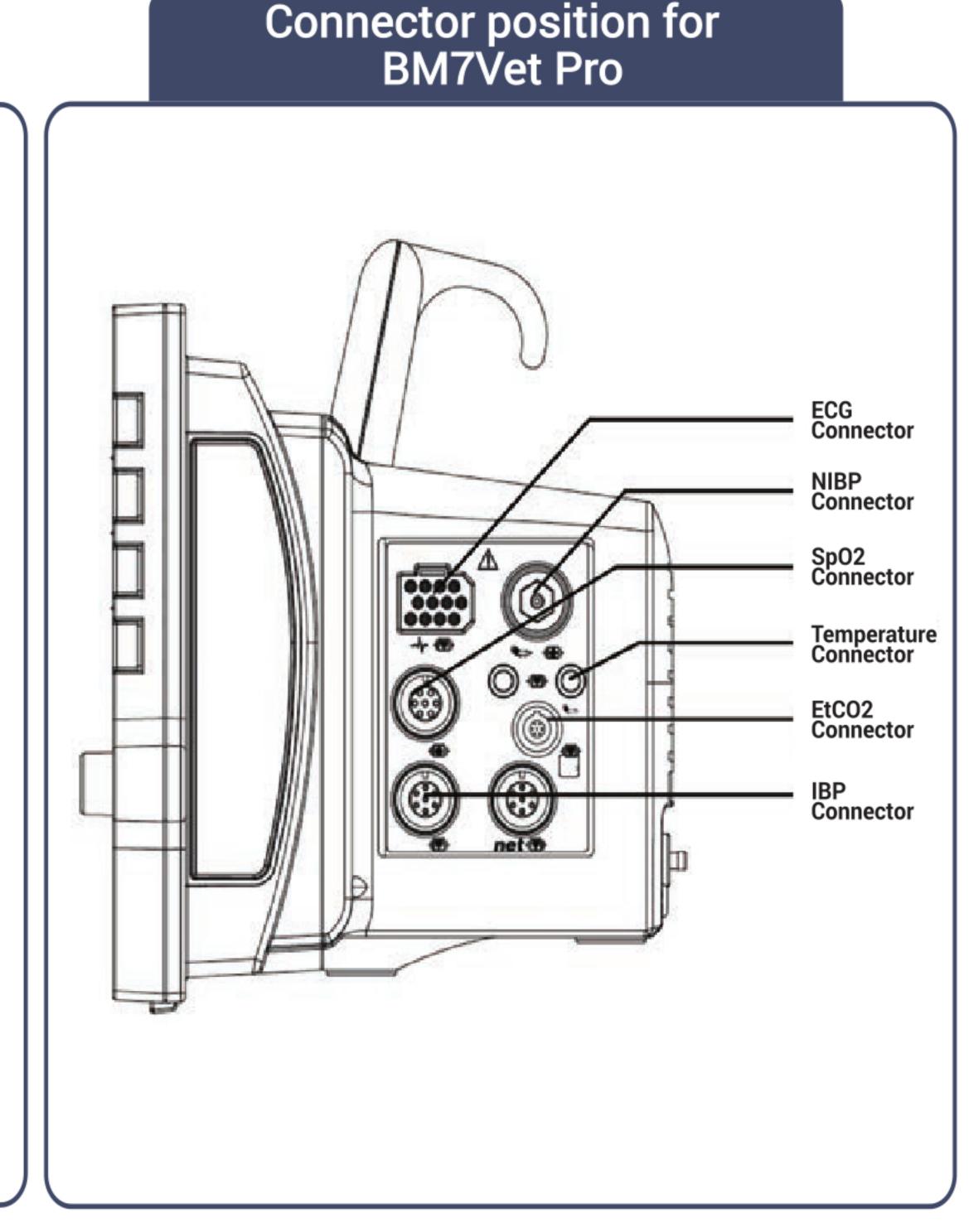
This guide will cover the basics for the BM Pro Series. (BM3Vet Pro / BM5Vet Pro / BM7Vet Pro)

# 1. Unpacking

Unpack your monitor and plug in all sensors and cables. All the cables are keyed so they will only plug in where they are supposed to go. You may plug and unplug your sensor cables at any time whether the power is on or off.



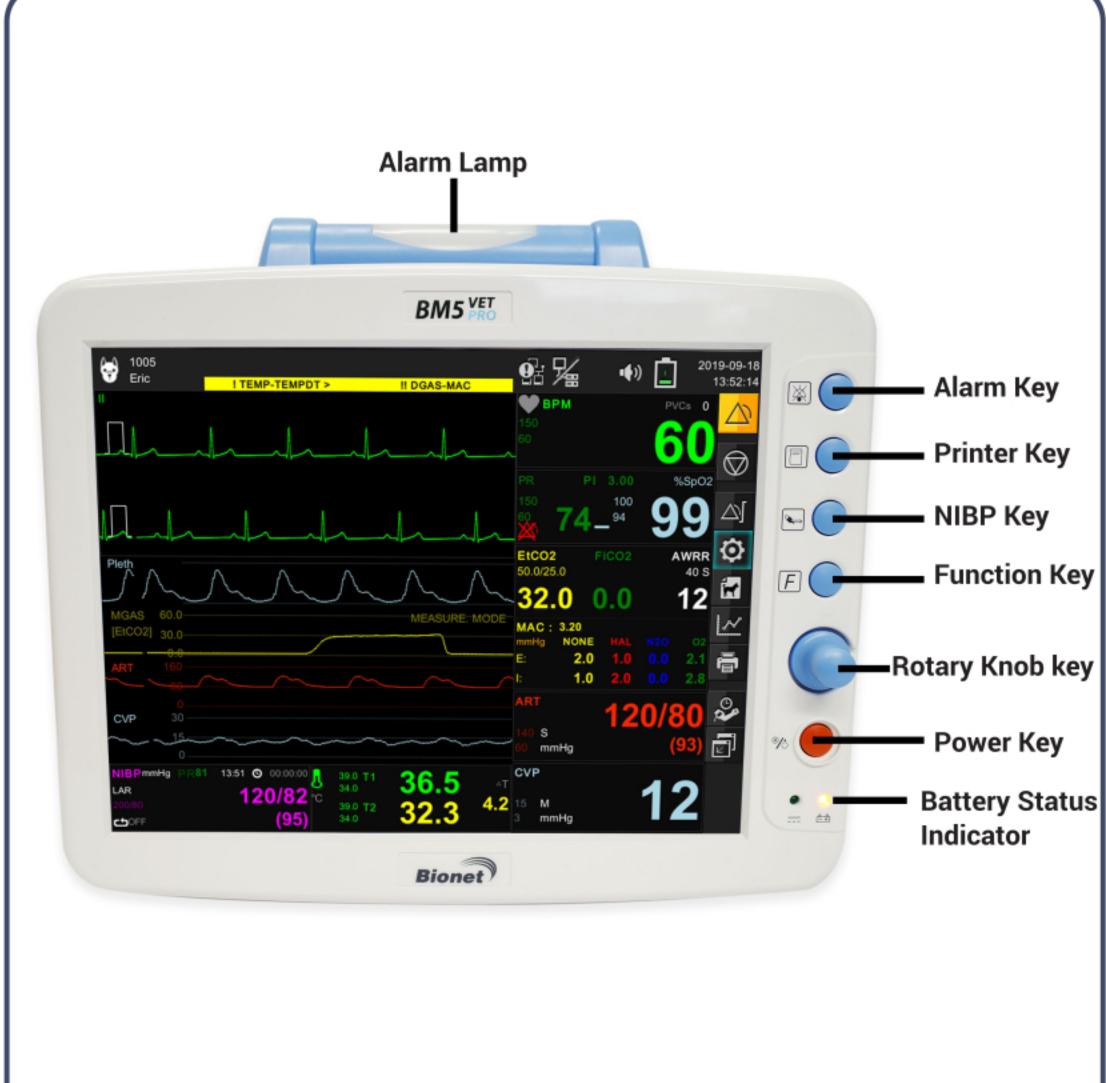


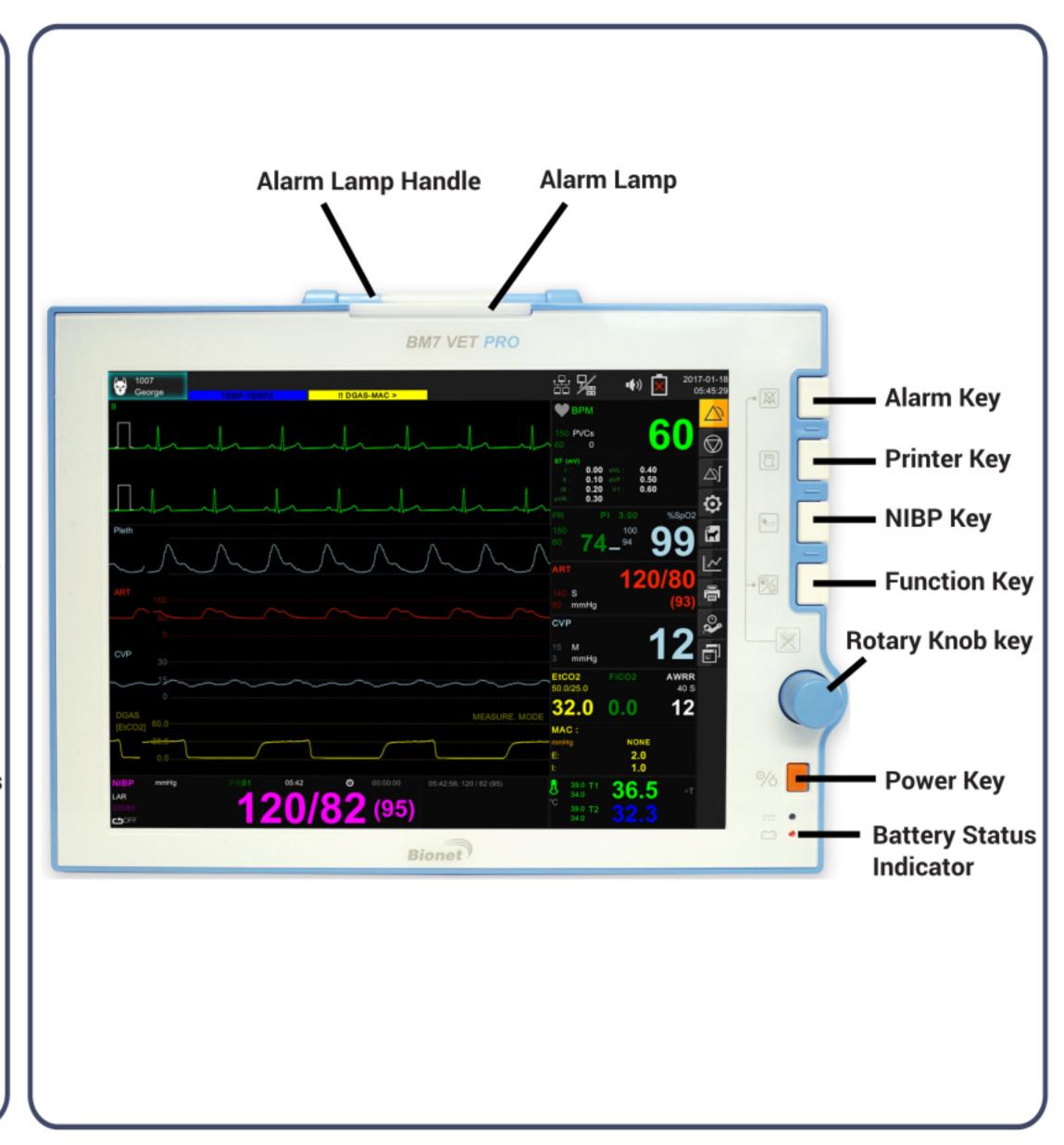


# 2. Menu Selection

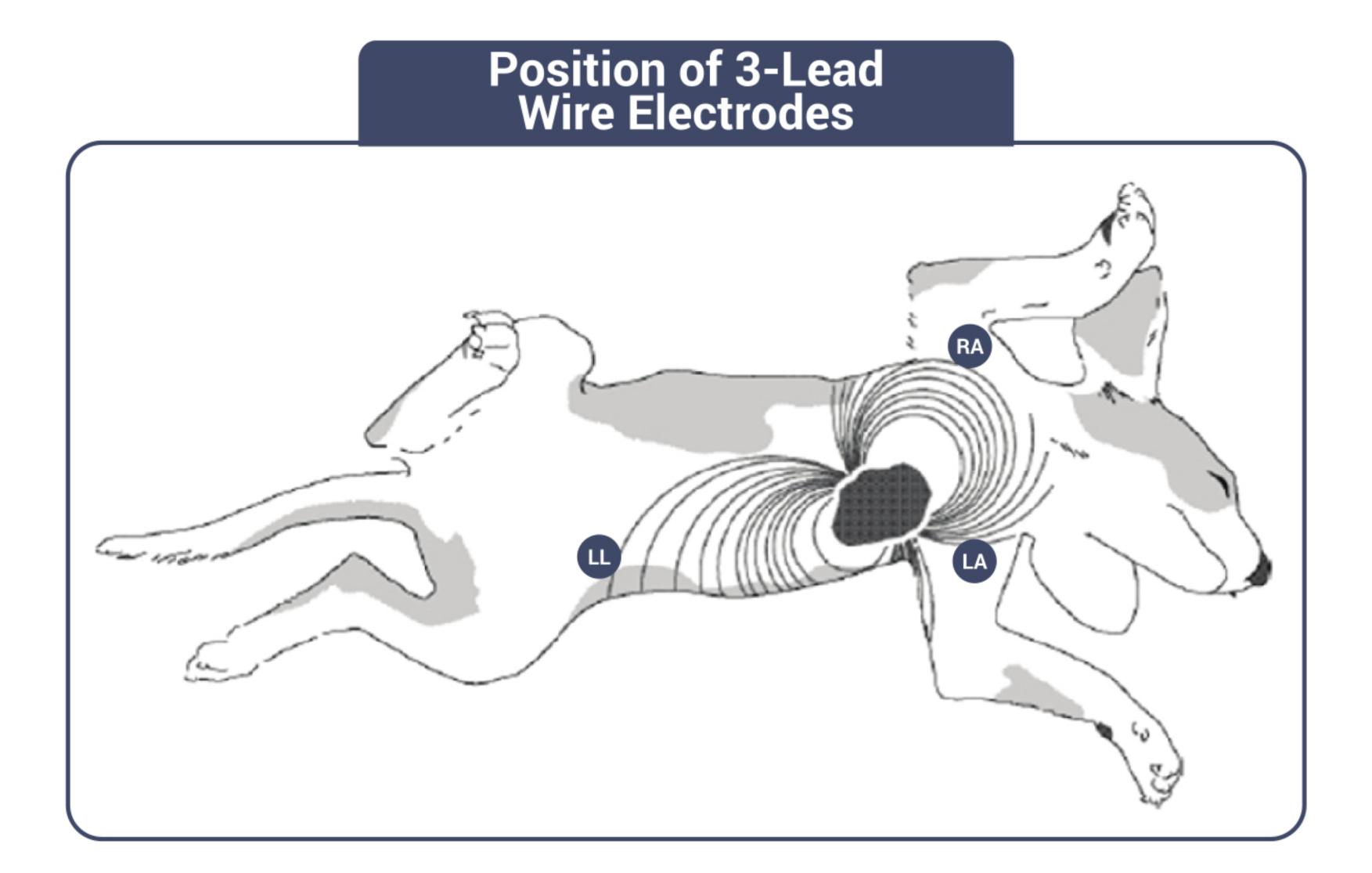
Turn your monitor on. Touch the screen or turn the rotary knob to move the cursor around the screen and press the center of it to select the highlighted item.

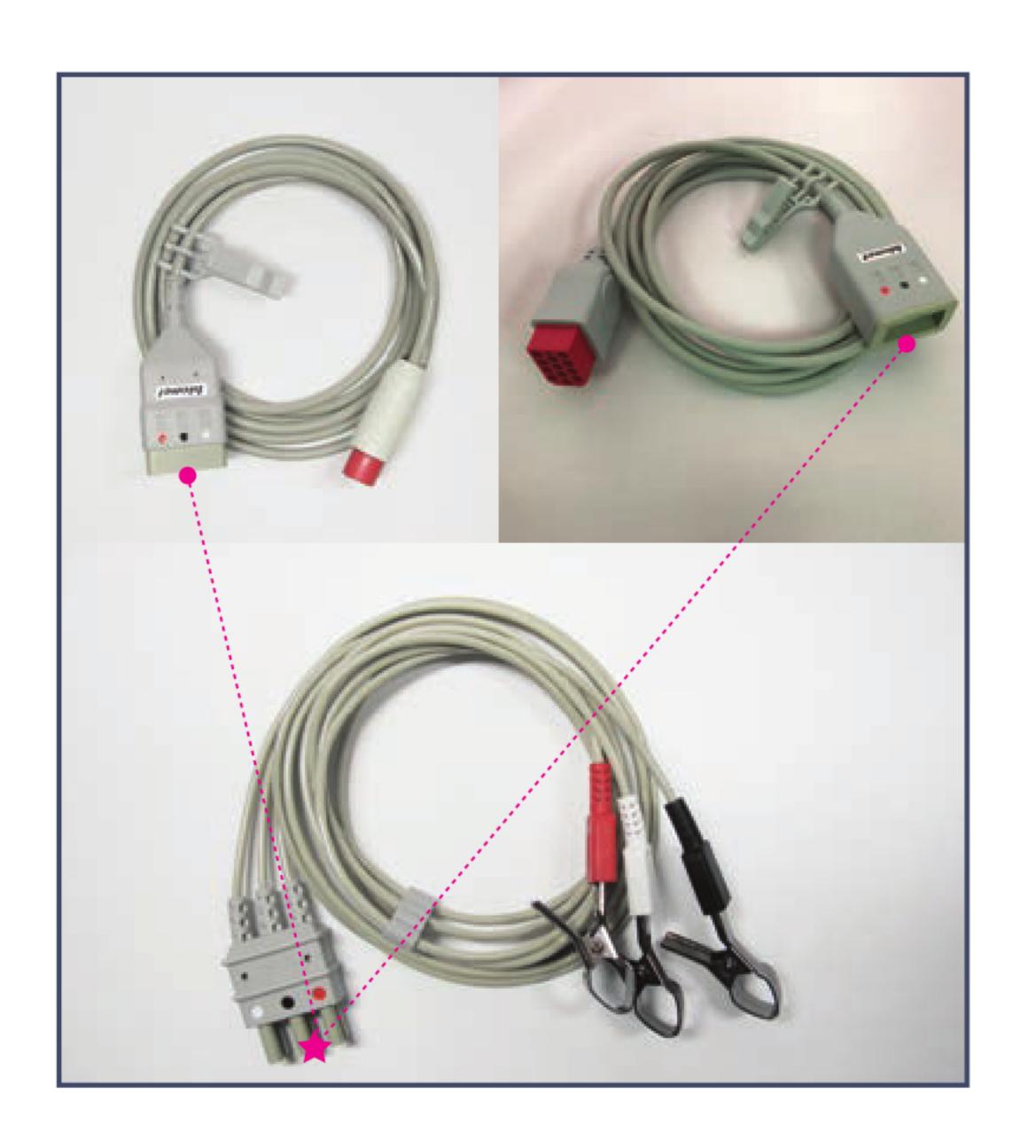






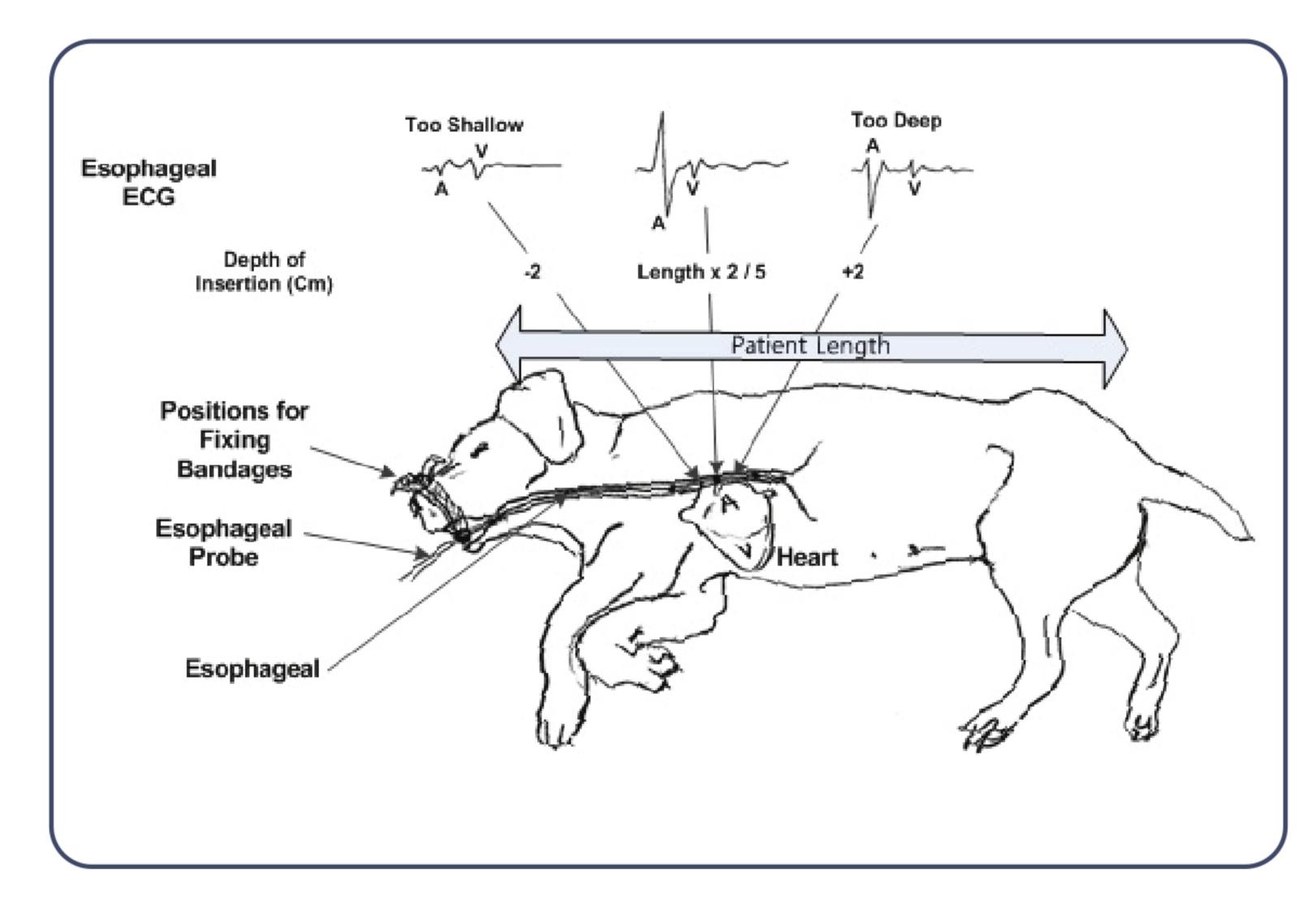
You will have both a 3 lead alligator clip and an esophageal ECG/Temperature probe. Either one will plug into your ECG extension cable.

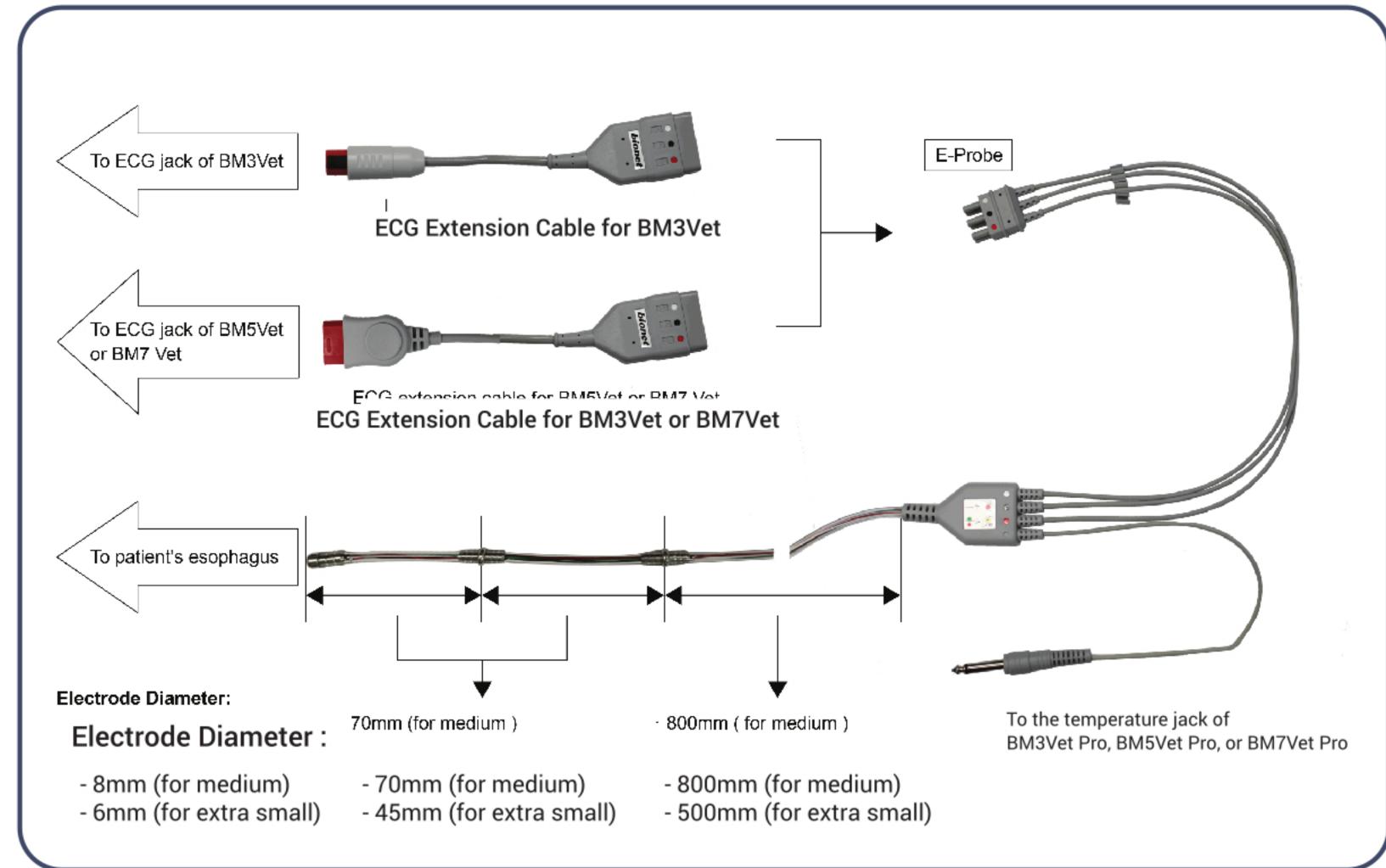




The esophageal ECG will provide you with both 3 lead ECG and temperature. IMPORTANT: The default respiration (labeled RPM with an icon of yellow lungs on the display) is dependent on using the alligator clips. If you use the esophageal probe then you must monitor respiration using an alternative means such as the End Tidal CO2 option.

Before inserting the esophageal probe into your patient's esophagus, measure against the patient so that you do not insert it further than the base of the sternum. Then, while slowly inserting the probe into the esophagus, watch the ECG tracing. When you get a good QRS signal, stop and tie the esophageal probe in place to minimize movement. If you get an inverted R-wave, then you have inserted the probe too far and must back it out until the QRS is normal.





# 4. Sp02

You will have two sensors for SpO2. One is the classic "Y" clip sensor. Commonly called a lingual clip, this can be used on the lip, tongue, vulva, prepuce, webbing between the toes and the webbing behind the tendon on the hind leg.





The other is a transflectance probe. This is often mistaken as a rectal probe. While it can be used rectally, we do not recommend rectal pulse oximetry. To be successful, you would need to perform pre-surgical enemas on your patients. This probe works best wrapped to the underside of the base of the tail. In some cases, you may have to shave some fur. You may also use this probe on the inside of the thigh, the midline of the belly, and the back of the leg just above the pads of the feet.







\*\*\*Both probes simply plug into the SpO2 extension cable.

### 5.Non-invasive Blood Pressure

The most important factors in getting a successful and accurate blood pressure are proper cuff size selection and placement.

The cuffs are all graduated so you can easily find the correct sized cuff to use. There is an index point marked on the leading edge of the cuff. When wrapped around the limb, this index point must be within the graduated scale.



Child cuff showing Index Line and Graduated Scale



Cuff is too small. Index edge won't fall within scale



Cuff is too large. Index line won't fall within scale



Cuff is correct size.

The hose should line up with the vessel that you are trying to measure. When using a leg, this is on the underside (backside) of the leg.



Incorrect Placement



**Correct Placement** 

Note: The cuff must be at the same level as the patient's heart for best accuracy.

# 6. End Tidal CO2

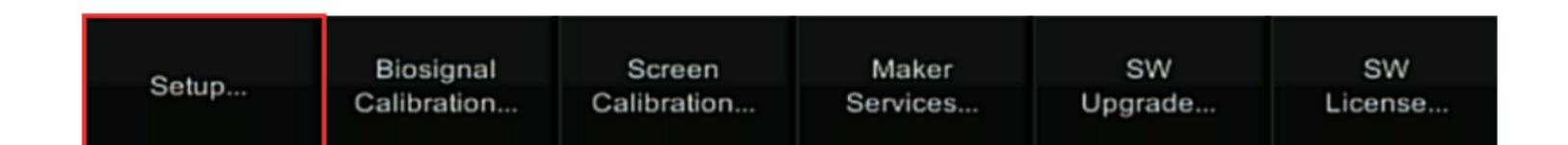
This document will focus on the main stream Capnostat 5 sensor. If you purchased the side stream LoFlo sensor please contact technical support with any questions.



A. Select the GEAR icon on the left side of the screen

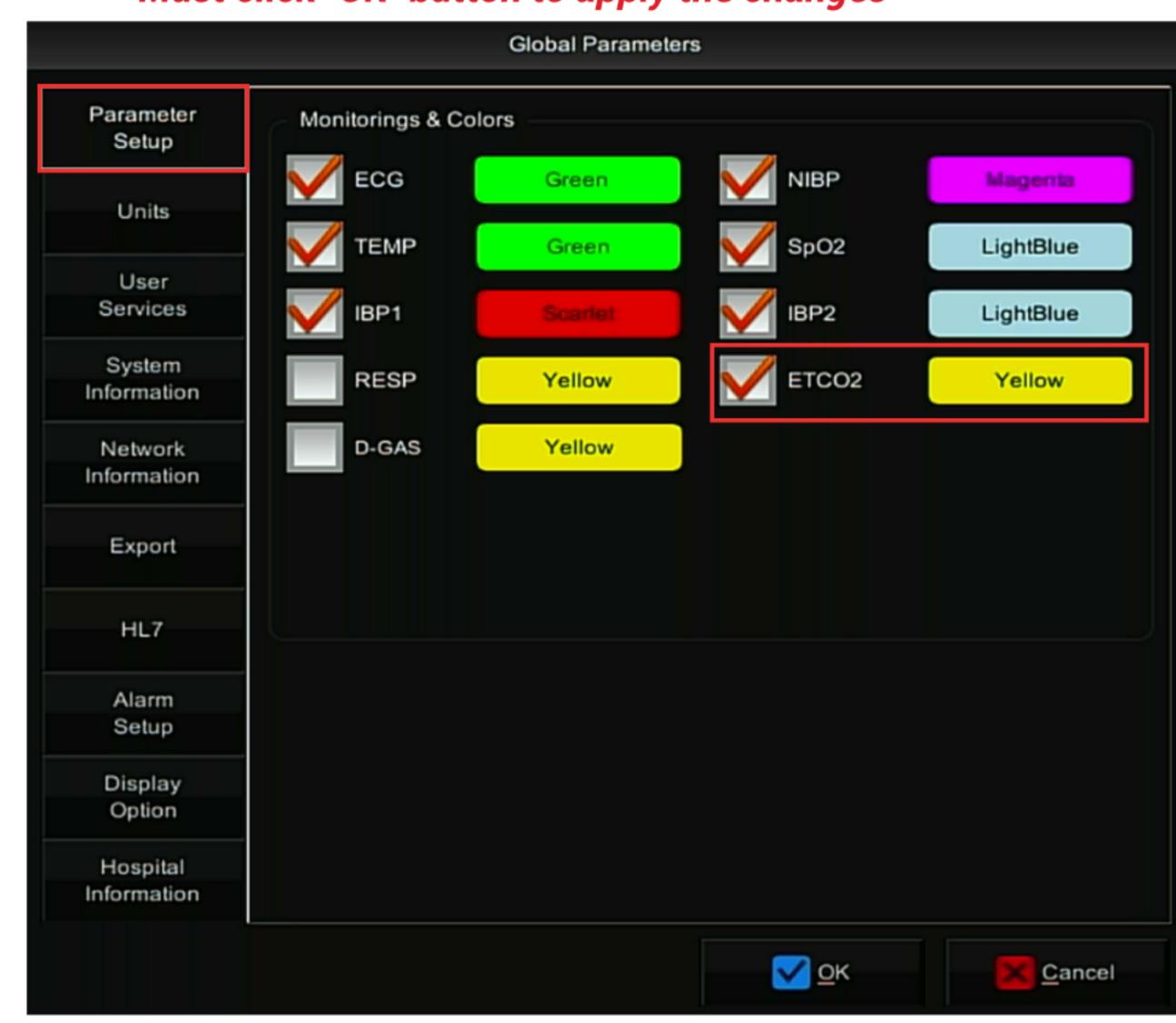


**B. Select SETUP** 



#### C. Select ETCO2 checkbox. Back out of menus.

\*\* Must click "OK" button to apply the changes\*\*





When you plug in your Capnostat or turn on your monitor with the Capnostat installed it will go through a SENSOR WARMUP process. You must wait for this to complete (about 60 seconds) before you proceed with any EtCO2 operations.



# 6.3 Airway Adapter

There are two airway adapters that come with the Capnostat. The purple one is for endotracheal tubes that are 4mm and smaller. The clear airway adapter is for endotracheal tubes larger than 4mm.

# The airway adapters for mainstream intubated applications



Single-Animal Use Airway Adapter For endortracheal tubes that are larger than 4mm



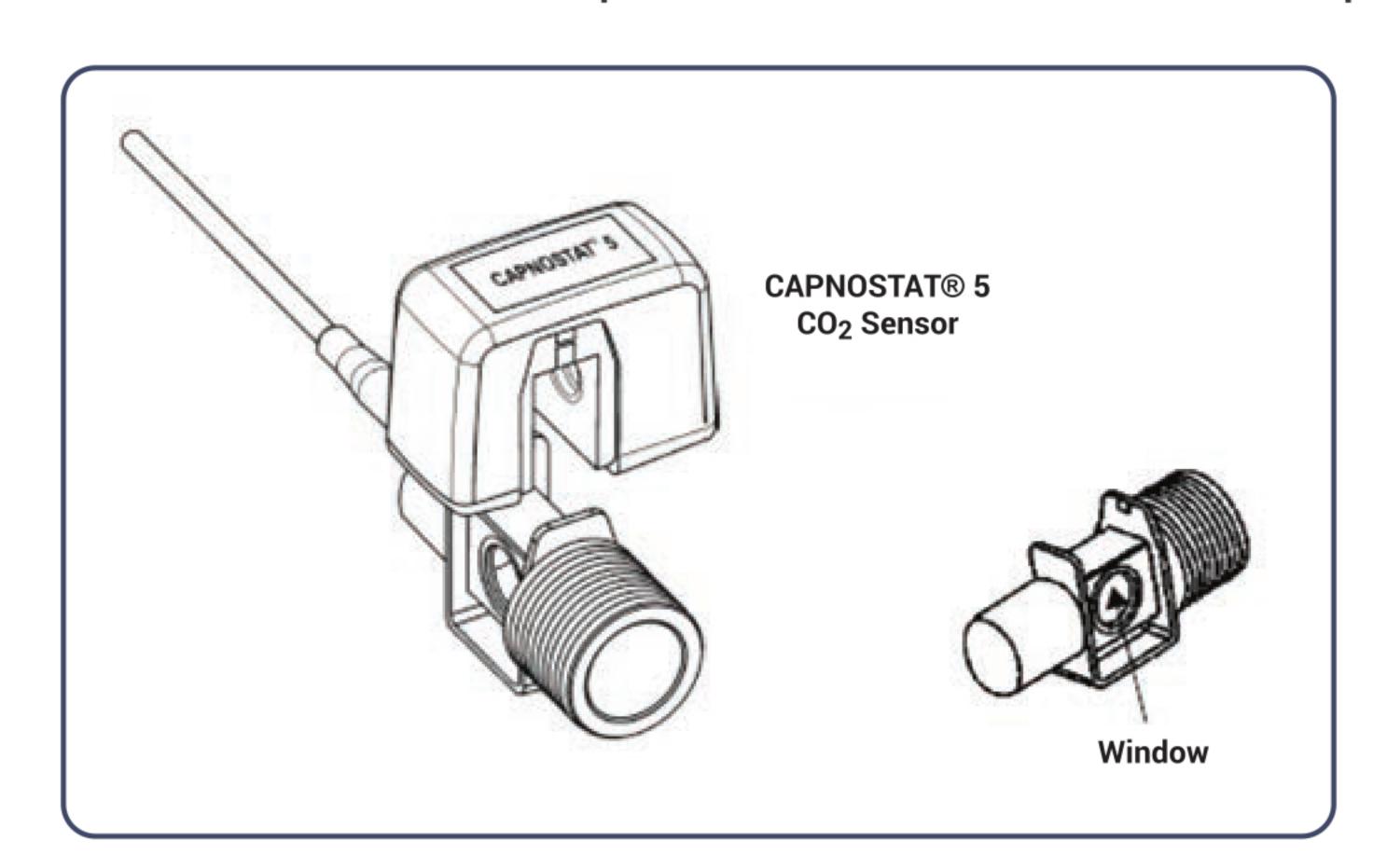
Single-Animal Use Airway Adapter For endotracheal tubes that are 4mm and smaller

\*\*There is an arrow on the airway adapter and a matching arrow on the Capnostat. These need to be pointing at each other when you install the airway adapter.

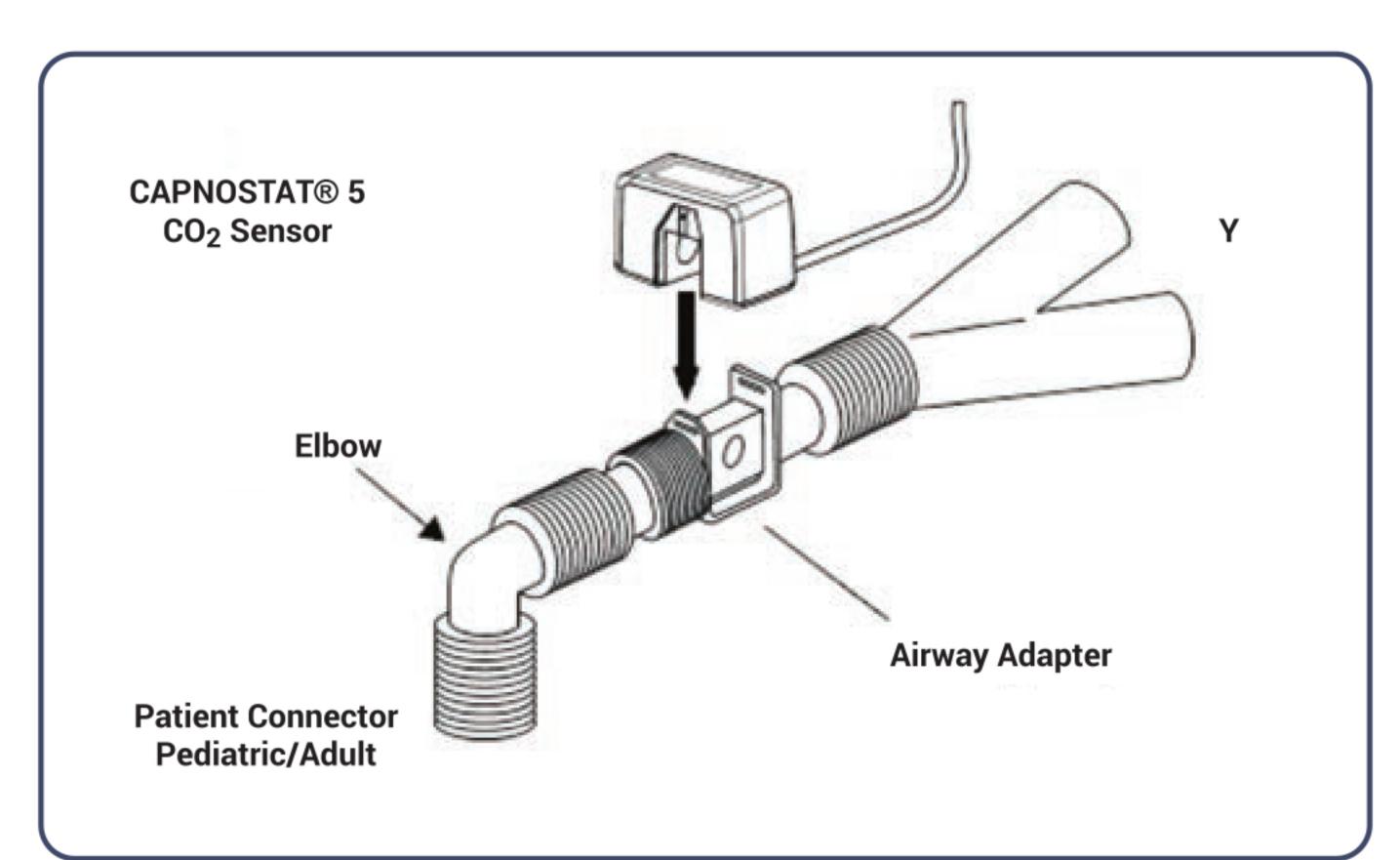


Shown below is the CAPNOSTAT 5 CO2 Sensor connection to a Respironics Novametrix CO2 adapter.

Connect: Slides on.
Clicks into place.
Remove: Slides off.



Shown below is the CAPNOSTAT 5 CO2 Sensor with an animal circuit:

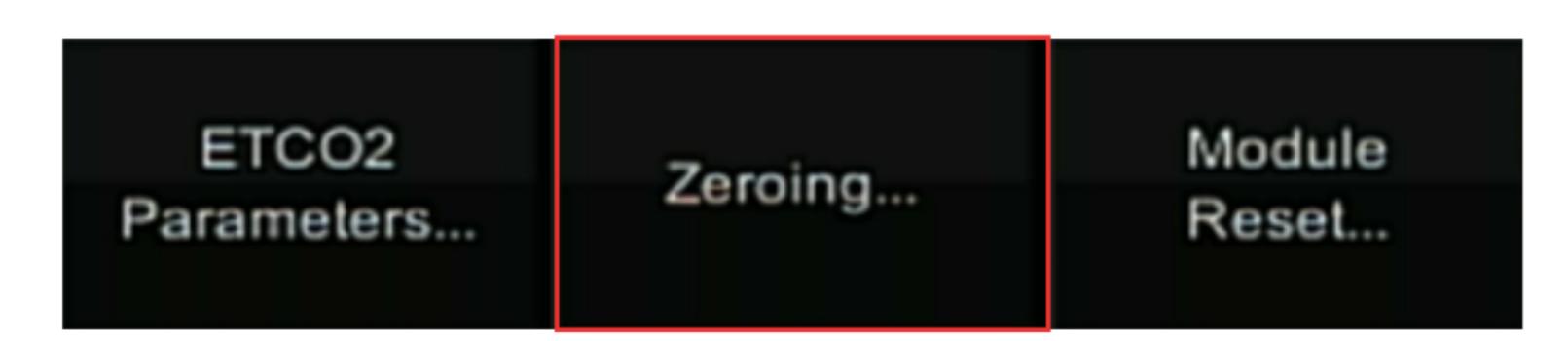




Each time you install an airway adapter (before you connect the Capnostat to your patient and anesthetic machine) you need to zero it. This calibrates the sensor for the room air and for the installed airway adapter. With an airway adapter installed, select the EtCO2 window then select ZEROING. You will see a ZEROING message appear that will last 15 seconds. Once this clears, you are ready to connect to your patient.

- (a) Select EtCO2 parameter by rotary knob or touch.
- (b) Select ZEROING by rotary knob or touch. Then zeroing will progress.





\*\*\*Airway adapter must be installed before zeroing

\*\*\*For best result, connect the CAPNOSTAT 5 CO2 Sensor to an adapter and wait 2 minutes before performing the Adapter Zero procedure.

## 7. Dual Gas Module

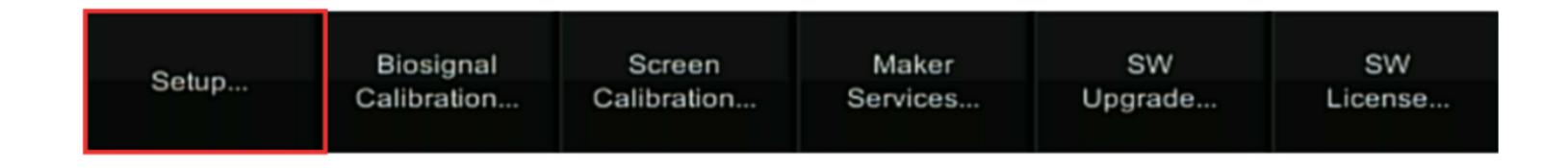
Dual Gas sidestream module is intended for monitoring of intubated and ventilated or non-ventilated small and large patients under anesthesia. The Dual Gas module is a multi-gas analyzer measuring carbon dioxide (CO2) and one of five anesthetic agents with manual selection of the specific agent type. This is intended for use only with the BM3Vet Touch, BM7Vet, and BM Pro Series (BM3Vet Pro / BM5Vet Pro / BM7Vet Pro).



A. Select the GEAR icon on the left side of the screen



**B. Select SETUP** 

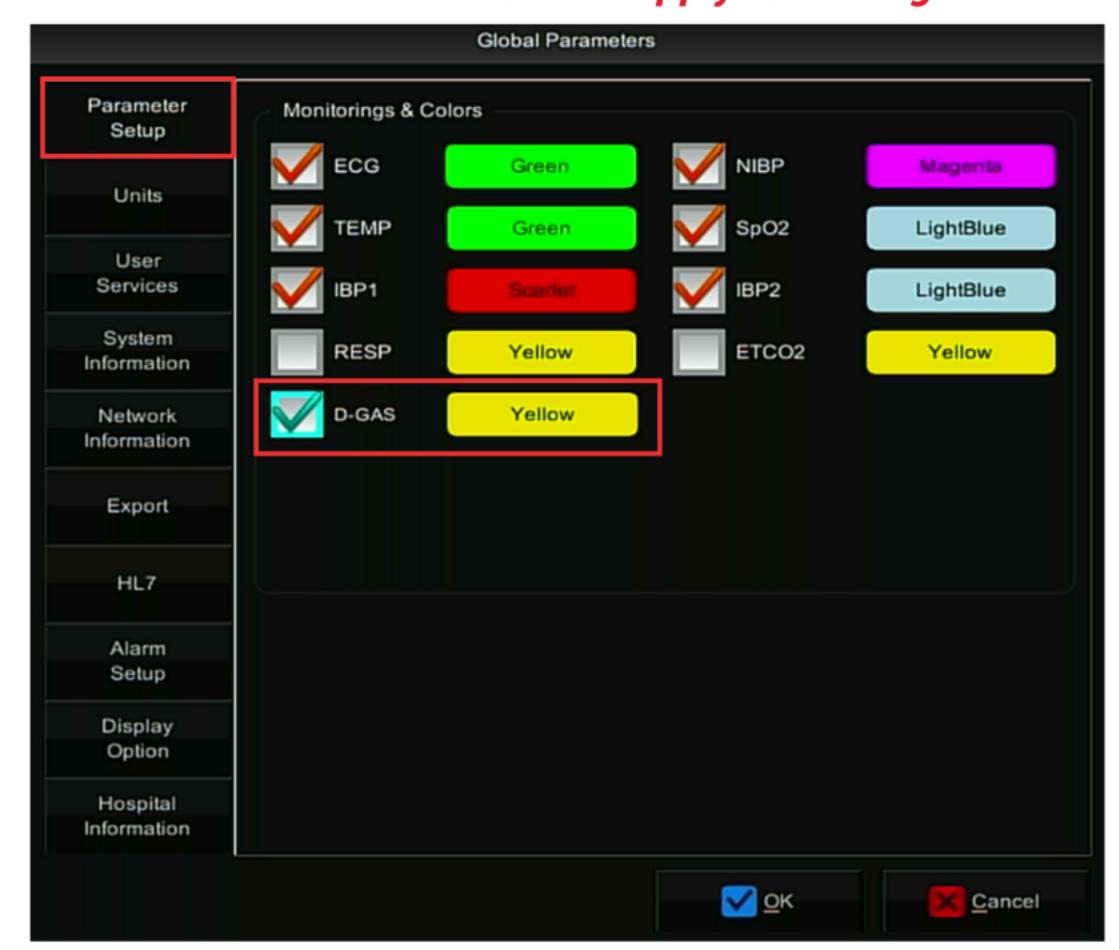




See details at bionetus.com/dualgas

# C. Select D-GAS checkbox. Back out of menus.

\*\* Must click "OK" button to apply the changes\*\*



# 8. BT-Link Pro

BT-Link Pro: An automated veterinary monitor software program that enables you to interface Bionet veterinary monitors directly to a Windows-based computer.

See details at bionetus.com/bt-link-automated-veterinary-monitor-software.

BT-Link Pro Mobile: A smartphone application that enables you to monitor one of the multiple Bionet veterinary monitors connected directly to a smartphone or tablet.

See details at bionetus.com/bt-link-veterinary-monitor-mobile-app.



3-Lead Vet ECG Cable Item Code: B-WIRE-N

3-Lead ECG

5-Lead Vet

\*5-Lead ECG

Extension Cable

(For BM3Vet Pro only)

Item Code: B-CBL5-N

Item Code: B-AECG5

ECG Cable

Extension Cable

Item Code: B-CBL-EP



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NIBP Extension Tube Item Code: B-NBPCBL

Reusable NIBP

Cuff Size Range:

Item Code: B-ICUFF

Disposable NIBP

\*Reusable NIBP

Cuff Size Range:

Item Code: B-PCUFF

13.8 to 21.5cm

Pediatric Cuff

Item Code: B-NCUFF1~5

Neonate Cuff

(Size #1- #5)

Infant Cuff

9 to 14.8cm



**EtCO2 Mainstream** 

\*CAPNOSTAT5 Mainstream CO2 Sensor Item Code: B-RMCO2

\*Mainstream Disposable |

\*Mainstream Disposable

Neonatal Airway Adapter.

Adult Airway Adapter:

ET Tube > 4mm

Item Code: 6063-00

ET Tube < 4mm

Item Code: 6312-00



**Dual Gas Module** 

\*Dual Gas Module Item Code: DG-SENSOR



**Multi Gas Module** 



\*IRMA AX + Multi-Gas Module





\*Water Trap Item Code: DGA-WT



IRMA Airway Adapter (Adult/Pediatric/Infant)

Item Code: 106220-ADU (Adult/Pediatric) 106260-INF (Infant)



\*Sample Line with

\*ISA OR + Multi-Gas Module Item Code: ISA-OR+

\*ISA AX + Multi-Gas Module Item Code: ISA-AX+



\*Airway Adapter (Straight)

Luer Lock (8')

Item Code: DGA-SL



\*Nomoline Adapter Item Code: 108220-FL



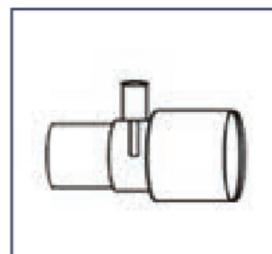
\*Airway Adapter (L type)



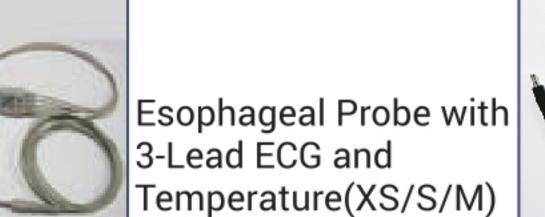
\*Nomo Extension



Item Code: 108240-EXT



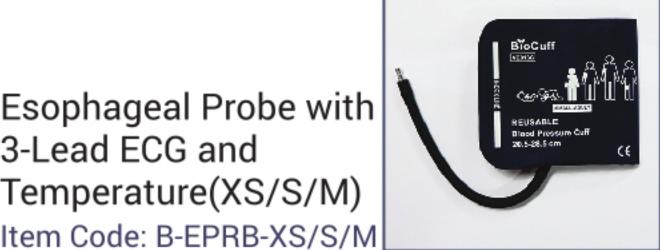
\*T-Adapter



Temperature Probe

(Rectal/Esophageal)

Item Code: TEM-PRV-R



\*Reusable NIBP Child Cuff Cuff Size Range: 20.5 to 28.5cm Item Code: B-CCUFF

Multisite

SpO2 Probe

Item Code: B-SPO2-V

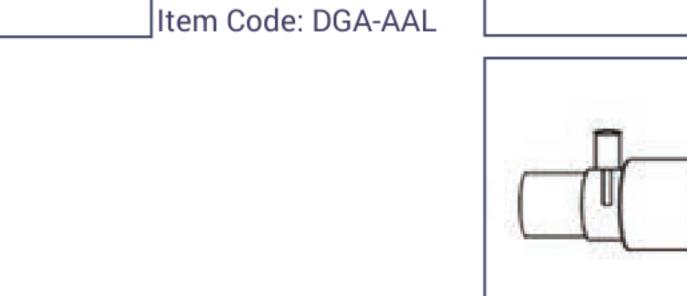


**EtCO2 Sidestream** 

\*LOFLO Sidestream CO2 Sensor Item Code: B-RSCO2-V



\*Sidestream Airway Adapter Kit with Sampling Line · Adult/Pediatric Item Code: 3473ADU-00



Item Code: 108250-ADU



Print Paper

Item Code: BM-PP



Transflectance SpO2 Probe Item Code: B-SP02-R

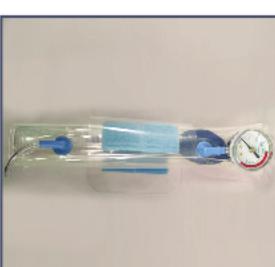


\*Sidestream Airway Adapter Kit with Sampling Line Infant/Neonate Item Code: 3473INF-00



\*TranStar® Reusable Single **Channel Cable** 

IBP (For BM5Vet Pro / BM7Vet Pro only)

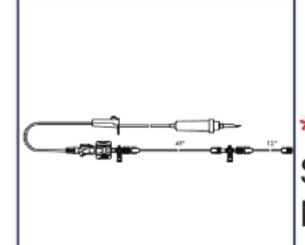


\*C-Fusor® 1000ml Pressure Infusor Item Code: MX4810



\*Modular Transducer Mounting Plate (1each) Item Code: MX800

Item Code: MX95114



\*TranStar® 60" Single Line Monitoring Kit Item Code: MX9504T



\*Pole Clamp for Mounting a Transducer plate (fits 3/4" to 1-1/2" I.V. pole) Item Code: MX240



Cable Item Code: B-SPCBL-N



Sidestream Sampling Line with Male Luer Adapter Item Code: 3475-00



USB WiFi Dongle (2.4GHz) Item Code: USB-WIFI24



Sp02 Extension