

Internal used only



### Veta 5/ Veta 3 Veterinary Anesthesia Machine

## Redefining Animal Anesthesia Machine



[www.mindrayanimal.com](http://www.mindrayanimal.com)

P/N:ENG-Veta 5/ Veta 3-210285X4P-20210315  
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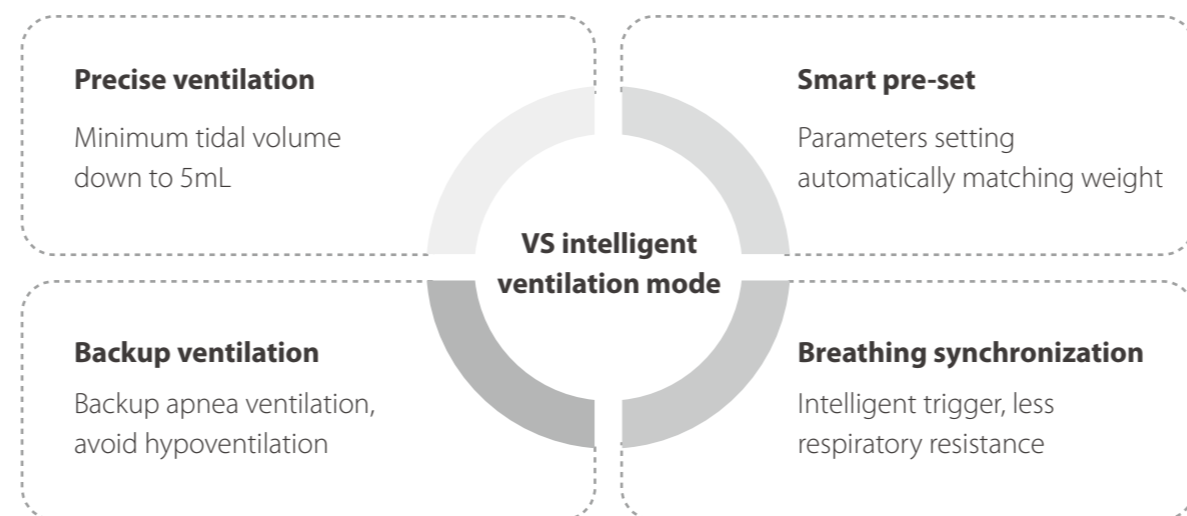


Anesthesia safety is always the first concern for veterinarians and pet owners. But it is facing higher requirements and new challenges nowadays.

The Veta series anesthesia machine introduces cutting-edge technology, combined with advanced clinical practice. It brings a brand new working experience of veterinary anesthesia with its intelligent ventilation mode and integrated design concept, to ensure the safety of animals and veterinarians.

## Safety Renovating

Intelligent ventilation mode tailored for animals



### Complete display of patient status

- Comprehensive monitoring, complete display of patient status
- Sidestream CO<sub>2</sub> monitoring optional, ensuring safe anesthesia



### More security measures

#### Auto system leak test

- Graphic guidance
- One-key startup



#### Reminder of gas filter canister replacement

- Accurate calculation of agent absorption, matching different canister
- Automatic reminder to change canister, more worry-free

#### Multiple types of waste gas scavenging system



Gas filter canister



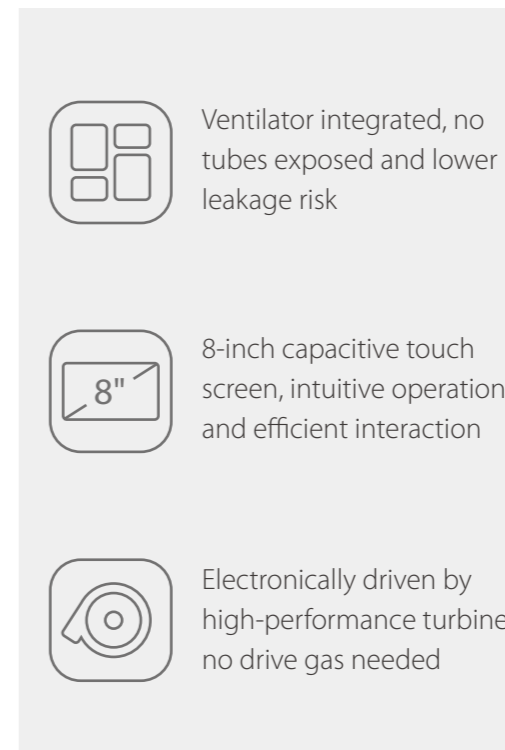
Passive AGSS



Active AGSS

## Form Refreshing

Integrated design, creating a simple and comfortable operating space



### Flexible workstation

Multiple mounting solutions for patient monitors, pumps and oxygen generators, improving the space utilization.



### Modular Upgrade

Upgrades could be realized from Veta 3 to Veta 5, adding ventilators and providing more possibilities.



Veta3

Veta5

# Veta 5

## Veterinary Anesthesia Machine



### Physical Specifications

#### Dimensions and Weight

(excluding the trolley, anesthesia gas filter canister, oxygen generator; including accessories)

|        |         |
|--------|---------|
| Weight | ≤ 30 kg |
| Height | 790mm   |
| Width  | 515mm   |
| Depth  | 435mm   |

(excluding the anesthesia gas filter canister, oxygen generator; including the trolley and accessories)

|        |        |
|--------|--------|
| Weight | ≤ 43kg |
| Height | 1375mm |
| Width  | 620mm  |
| Depth  | 690mm  |

#### Top Shelf

|              |       |
|--------------|-------|
| Length       | 342mm |
| Width        | 256mm |
| Weight limit | 10kg  |

#### Oxygenerator Frame

Oxygenerator size  
 <530×310×650mm

Weight limit 30kg

Castor 4, all with brakes

#### Display

|              |                         |
|--------------|-------------------------|
| Size         | 8"                      |
| Resolution   | 1024*768                |
| Brightness   | Adjustable (1-10 level) |
| Touch screen | Capacitive              |

#### LED Indicator

|              |   |
|--------------|---|
| AC power LED | One (green. Lit when an AC power supply is connected)   |
| Battery LED  | One (green. Lit when an AC power supply is connected; and extinguished when the battery is full or the machine is powered off.) |

#### Audio Indicator

Speaker Produces alarm tones and key tones; and supports multi-level volumes.

### Electrical Specifications

#### AC Power Input

|           |               |
|-----------|---------------|
| Voltage   | 100 to 240 V~ |
| Frequency | 50 Hz/60 Hz   |

#### Internal Batteries

Number of batteries

1

Battery type Lithium battery

Rated battery voltage

11.1 V

Battery capacity 5,000 mAh

Minimum battery run time

120 minutes

#### Multi-functional Communication Connector

Number One

Type DB9 male

Function Supports the communication between the anesthesia machine and external devices to calibrate the pressure; and supports the connection with the weigher to transfer the overweight signals and to calibrate or zero the weigher.

#### Wired Network Connector

Number One RJ45

Type 8 PIN RJ45

Function Supports connection to a PC for software upgrading

#### USB Connector

Number One

Type A type

Function Supports exporting the configuration information and history data from a USB port; and supports upgrading the software.

### Pneumatic System Specifications

#### Pipeline Supply

Gas type Air, oxygen

Gas supply pressure range

280 kPa~600 kPa(40PSI~87PSI)

Input connector NIST or DISS

Connector number

1 (O<sub>2</sub>) /2 (O<sub>2</sub>/Air)

Gas supply pressure gauge range

0kPa ~ 1000 kPa(0PSI~140PSI)

#### Oxygen Flush

Flow range 10L/min~15L/min

#### Flowmeter

Number 1 (O<sub>2</sub>) /2 (O<sub>2</sub>/Air)

Range 0L/min ~ 4 L/min

Accuracy ±0.1L/min or ± 10% of the indicated value,  
whichever is greater

#### Auxiliary Common Gas Outlet (ACGO)

Type Mechanical switch

#### Anesthetic Breathing System Specifications

##### Breathing System Leakage

Test Method Manual / Auto

System leakage ≤75mL/min (under 3kPa)

##### Connector

Manual bag port 22 mm OD / 15 mm ID conical

Inhalation 22 mm OD / 15 mm ID conical

Exhalation 22 mm OD / 15 mm ID conical

Scavenging port 30 mm OD conical

##### CO<sub>2</sub> Absorbent

Volume 1500mL

##### APL Valve

Range 0cmH<sub>2</sub>O~70cmH<sub>2</sub>O

Accuracy ±10cmH<sub>2</sub>O or ±15% of the setting value,  
which is greater

Blocking pressure

Original APL valve value+30cmH<sub>2</sub>O

##### Airway Pressure Gauge

Type Mechanical

Range -20cmH<sub>2</sub>O~100cmH<sub>2</sub>O

Accuracy ± (2.5% of the full scale reading + 4% of the  
actual reading)

#### Anesthetic Vaporizer Specifications

##### Vaporizer

Filling methods Isoflurane: Pour Fill, Key Filler

Sevoflurane: Pour Fill, Key Filler, Quik-Fill

Weight 6.0kg

Filling volume 360 ml (dry wick)

300 ml (moist wick)

260 ml (between the minimum and maximum  
marks)

Concentration range

Isoflurane: 0 vol.%~6 vol.%

Sevoflurane: 0 vol.%~8 vol.%

Concentration accuracy range

±0.25vol.% or ±20% of set value, whichever is  
greater.

#### Anesthetic Gas Scavenging System Specifications

##### Active AGSS

Size 430mm×132mm×120mm

Pump rate 25L/min~50L/min (Low-flow)

75L/min~105L/min (High-flow)

##### Passive AGSS

Connector 30 mm OD conical

##### Weighing scale

Canister size ≤130mm (diameter)

Weight limit 2kg

Range 0-2000g

Accuracy ±10g

#### Anesthetic Ventilator Specifications

Drive Turbine

Working mode

Standby/Manual/ACGO

Volume Support (VS)

Volume Control Ventilation (VCV)

Pressure Control Ventilation (PCV)

Synchronized Intermittent Mandatory  
Ventilation (SIMV)

##### Setting Parameter

Vt 5mL~1500mL

Pinsp 5cmH<sub>2</sub>O~50cmH<sub>2</sub>O

△P<sub>supp</sub> 3cmH<sub>2</sub>O~50 cmH<sub>2</sub>O

PEEP OFF,3~30 cmH<sub>2</sub>O

RR 2bpm~60bpm

Min RR 2bpm~60bpm

I:E 4:1~1:8

T<sub>insp</sub> 0.2s~10.0s

P-Trig -20cmH<sub>2</sub>O~-0.2cmH<sub>2</sub>O

F-Trig 0.2L/min ~ 15L/min

##### Ventilator Monitoring Parameter

Vt 0mL~3000mL

MV 0L/min~100L/min

PEAK -20cmH<sub>2</sub>O~120cmH<sub>2</sub>O

PEEP 0cmH<sub>2</sub>O~70cmH<sub>2</sub>O

RR 0bpm~120bpm

##### Ventilator Monitoring Accuracy

Vt <75mL: ±15mL

≥75mL: ±20mL or ±10% of the reading,  
whichever is greater

MV ±1L/min or ±15% of the reading, whichever  
is greater



|      |   |
|------|---|
| PEAK | $\pm 3.0\text{cmH}_2\text{O}$ or $\pm 8\%$ of the reading,<br>whichever is greater  |
| PEEP | $\pm 3.0\text{cmH}_2\text{O}$ or $\pm 10\%$ of the reading,<br>whichever is greater |
| RR   | $\pm 1\text{bpm}$ or $\pm 5\%$ of the reading, whichever is<br>greater              |

### Gas Monitoring Specifications

#### CO<sub>2</sub> Gas Monitoring

|                          |   |
|--------------------------|---|
| Range                    | 0.0%(0mmHg) ~ 20% (152mmHg)   |
| Resolution               | 0.1%/1 mmHg   |
| CO <sub>2</sub> accuracy | 0.0% (0 mmHg) ~ 5.0% (40 mmHg): $\pm 0.2$<br>vol.% ( $\pm 2$ mmHg)<br>5.0% (41 mmHg)~ 10% (76 mmHg) (excludes<br>5%): $\pm 5\%$ of actual reading<br>10% (77 mmHg)~20% (152 mmHg) (excludes<br>10%): $\pm 10\%$ of actual reading |

### Environment Specifications

#### Operation

|                                   |                 |
|-----------------------------------|-----------------|
| Temperature (°C)                  | 10 to 40        |
| Relative humidity (noncondensing) | 15% to 95% R.H. |
| Barometric pressure (kPa)         | 70 to 106.7     |

#### Storage

|                                   |                 |
|-----------------------------------|-----------------|
| Temperature (°C)                  | -20 to 60       |
| Relative humidity (noncondensing) | 10% to 95% R.H. |
| Barometric pressure (kPa)         | 50 to 106.7     |