Vetal 5

Veterinary Monitor



Physical Specifications

Size (W×H×D):	350mm*250mm*180mm
Weight:	≥4 kg (with one battery)
No-fan:	Yes, low noise, low consumption
Waterproof:	IPX1

Display

Type:	12.1 inches capacitive touchscreen
Resolution:	1280×800 pixels

ECG

3-lead:	I, II, II
5-lead:	I, II, III, aVR, aVL, aVF, V
Sweep speed:	6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s
Gain:	×0.125, ×0.25, ×0.5, ×1, ×2, ×4, Auto
Bandwidth:	Diagnostic mode: 0.05Hz ~ 150 Hz Monitor mode: 0.5Hz ~ 40 Hz Surgical mode: 1Hz ~ 20 Hz

HR

Range:	15bpm ~ 350bpm
Accuracy:	±1bpm or ±1%， which ever is greater

Respiration

Method:	Impedance method
Lead:	I, II, Auto
Range:	0 rpm ~ 150 rpm
Accuracy:	±1 rpm (1rpm ~ 121rpm) or ±2 rpm (121rpm ~ 150rpm)
Sweep speed:	3 mm/s, 6.25 mm/s, 12.5 mm/s, 25.0 mm/s, 50.0 mm/s

SpO_2

Range:	0% ~ 100%
Accuracy:	±3% (70% ~ 100%)
Perfusion index (PI)	Mindray SpO_2 support
PI range:	0.05% ~ 20%

PR

Range:	20bpm ~ 300bpm (SpO_2) 30bpm ~ 300bpm (NIBP)
Accuracy:	±3bpm (SpO_2) ±3bpm or ±3% (NIBP)

NIBP

Operation mode:	Manual, Auto, Continuous, Sequential, STAT
Measurements:	Systolic, Diastolic, Mean
Range:	Weight >23kg: 10 ~ 290mmHg Weight 10 ~ 23kg: 10 ~ 240mmHg Weight < 23kg: 10 ~ 240mmHg
Max. measurement time:	120s
Overpressure protection:	Yes

Temp

Channel:	Dual channels
Range:	0°C ~ 50°C
Accuracy:	±0.1°C

Artema Sidestream CO_2

Apnea delay:	10s, 15s, 20s, 25s, 30s, 35s, 40s
CO_2 Measurement range:	0 to 150 mmHg
awRR measurement range:	0 to 150 rpm
Sample flowrate:	Connected water trap for large animal: 120 ml/min Connected water trap for small animal: 90 ml/min or 70 ml/min

Mindray Mainstream CO_2

Apnea delay:	10s, 15s, 20s, 25s, 30s, 35s, 40s
CO_2 Measurement range:	0 to 150 mmHg
awRR measurement range:	0 to 150 rpm
Response time	<2s
Rise time	<60 ms

IBP

Measurement range:	-50 ~300mmHg
Resolution;	1mmHg
Accuracy:	±2% or ±1mmHg， which ever is greater
Updating cycle:	≤2s
PPV measurement range:	0~50%

Cardiac Output (C.O.)

Measurement method	Thermodilution
Measurement range:	C.O.: 0.1L/min~20L/min
Accuracy	±0.1L/min or ±5% which ever is greater

CAA (Clinical Assistive Application)

ECG Library	Support ECG waveform reference
CO_2 Library	Support CO_2 waveform reference
Stage of Anesthesia	Anesthesia depth assessment chart
	HR, PR and NIBP trend

Data Storage

Trends review:	120 hours, @1min
	4 hours, @5s
Full disclosure waveform	120 hours for 1-ch ECG waveform
Parameter alarms:	1800 alarms
	and related parameter waveforms
Arrh. events:	128 arrhythmia events and
	related waveforms & parameters
NIBP measurements:	1600 sets

Battery

Type:	Chargeable Lithium-ion
Capacity:	2600 mAh or 5200 mAh
Voltage:	10.8V (2600mAh)
	10.95V (5200mAh)
Run time:	≥4.5 h (2600mAh)
	≥10 h (5200mAh)
Charge time:	4 hours (monitor off, 2600mAh)
	8 hours (monitor off, 5200mAh)

Interfacing

Connectors:	1 AC power connector
	1 RJ45 network connector
	1 USB 2.0 connector

Environmental

Ambient temperature:	Operating: 0 ~ 40°C
	Storage & transport: -20 ~ 60°C
Relative humidity:	Operating: 15% ~ 95%
	Storage & transport: 10% ~ 95%
Atmospheric pressure:	Operating:
	427.5mmHg ~ 805.5mmHg

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