

# **VE-100/VE-300**

### Veterinary Electrocardiograph



#### **VE-300 Three-Channel ECG:**

- Complete digital and portable design
- Vivid waveform display
- Built-in rechargeable Li-ion battery, AC/DC power supply
- Auto/Manual work mode selectable
- Lead-off detection and display
- Complete digital filtering, resisting baseline drift, AC and EMG interference
- Baseline automatically adjustable to optimize printing position
- High-resolution thermal printing
- Communication interface: Ethernet/RS232/USB
- PC-based ECG data management software (optional)

### **VE-100 Single-Channel ECG:**

- Single-channel ECG
- Complete digital and portable design
- Vivid waveform display
- Built-in rechargeable Li-ion battery, AC/DC power supply
- Auto/Manual work mode selectable
- Lead-off detection and display
- Complete digital filtering, resisting baseline drift, AC and EMG interference
- Baseline automatically adjustable to optimize printing position
- High-resolution thermal printing



## VE-100/VE-300 Single/Three-channel ECG

Veterinary Electrocardiograph





Input Circuit         Protection from defibrillation           Lead         Standard 7 leads           Acquisition         Single lead         7 leads simultaneously           AD Resolution         12 bits           Measurement Range         ±5mVpp           Time Constant         ≥3.2s           Frequency Response         0.05Hz ~ 150Hz           Calibration Voltage         1mV ±3%           Sensitivity         2.55, 5, 10, 20 (mm/mV)           Input Impedance         ≥10m Ω         ≥50m Ω           Input Circuit Current         ≥50m A         0.05Hz ~ 150m Ω           Input Circuit Current         ≥50m Ω         0.05Hz ~ 150m Ω           Input Circuit Current         ≥50m Ω         0.05m Ω           Input Circuit Current         ≥50m Ω         0.05m Ω           Anti Baseline Drift         Automatic         0.05m Ω           Patient Leakage Current         ≥50m Ω         0.05m Ω           Patient Leakage Current         ≤0.1µA (DC)         EMG Filter: 25Hz/35Hz/45Hz/0FF           EMG Filter: 35Hz (-3dB)         DFT Filter: 0.05/0.15/0.25/0.5Hz           EIthers         AC/DFT Filter: 50Hz/60Hz (-20dB)         Lowpass Filter: 150Hz/100Hz/75Hz           CMRR         >90dB         >100dB      <		VE-100 Single Channel ECG	VE-300 Three Channel ECG
Acquisition         Single lead         7 leads simultaneously           A/D Resolution         12 bits           Measurement Range         ±5mVpp           Time Constant         ≥3.2s           Frequency Response         0.05Hz ~ 150Hz           Calibration Voltage         1mV ±3%           Sensitivity         2.5, 5, 10, 20 (mm/mV)           Input Impedance         ≥10m Ω         ≥50m Ω           Input Circuit Current         ≥50nA         ≥50m Ω           Noise Level         ≥15μVp-p         Antile Automatic           Anti Baseline Drift         Automatic         Patient Leakage Current         ≤0.1μA (DC)           Patient Leakage Current         €0.1μA (DC)         EMG Filter: 25Hz/35Hz/45Hz/0FF           EMG Filter: 50Hz/60Hz (-20dB)         DFT Filter: 0.05/0.15/0.25/0.5Hz         EMG Filter: 50Hz/100Hz/75Hz           Filters         AC/DFT Filter: 50Hz/60Hz (-20dB)         DFT Filter: 50Hz/100Hz/75Hz         AC Filter: 50Hz/100Hz/75Hz           CMRR         >90dB         >100dB         AC Filter: 50Hz/60Hz           Safety Standard         AC ±01115V/220V-240V, 50/50Hz         AC ±0115V/220V-240V, 50/50Hz         AC ±0115V/220V-240V, 50/50Hz         AC ±0115V/220V-240V, 50/50Hz         AC ±010V-1115V/220V-240V, 50/50Hz         AC ±010V-1115V/220V-240V, 50/50Hz         AC ±010V-1115V/220V-240V, 50	Input Circuit		
A/D Resolution         12 bits           Measurement Range         ±5mVpp           Time Constant         ≥3.2s           Frequency Response         0.05Hz - 150Hz           Calibration Voltage         1mV ±3%           Sensitivity         2.5, 5, 10, 20 (mm/mV)           Input Impedance         ≥10m Ω         ≥50m Ω           Input Circuit Current         ≥50m Ω           Noise Level         ≥15μVp-p         Anti Baseline Drift         Automatic           Patient Leakage Current         ≥0.1μA (DC)         EMG Filter: 25Hz/35Hz/45Hz/OFF           Patient Auxiliary Current         ≥0.1μA (DC)         EMG Filter: 25Hz/35Hz/45Hz/OFF           EMG Filter: 35Hz (-3dB)         DFT Filter: 0.05/0.15/0.25/0.5Hz         EMG Filter: 25Hz/35Hz/45Hz/OFF           Filters         AC/DFT Filter: 50Hz/60Hz (-20dB)         DFT Filter: 50Hz/10DHz/75Hz         ACF Filter: 50Hz/10DHz/75Hz           Filters         AC/Filter: 50Hz/60Hz (-20dB)         AUto/Manual/Rhythm/OFF/USBPRT         ACF Filter: 50Hz/10DHz           CMRR         >90dB         >100dB         ACF Filter: 50Hz/10DHz           CMRR         >90dB         Auto/Manual/Rhythm/OFF/USBPRT         ACF CIICLEr: 50Hz/10DHz           Rhythm Lead         single lead selectable         Safety Standard         BEC 1/CF	Lead	Standard 7 leads	
Measurement Range         ±5mVpp           Time Constant         ≥3.2s           Frequency Response         0.05htz ~ 150htz           Calibration Voltage         1mV ±3%           Sensitivity         2.5, 5, 10, 20 (mm/mV)           Input Impedance         ≥10m Ω         ≥50m Ω           Input Circuit Current         ≥50nA         Noise Level           Noise Level         ≥15μVp-p         Automatic           Patient Leakage Current         ≤10μA (220V~240V)           Patient Auxiliary Current         ≤0.1μA (DC)           Filters         AC/DFT Filter: 50Hz/60Hz (-20dB)         Lowpass Filter: 150Hz/100Hz/75Hz AC Filter: 50Hz/60Hz           Filters         AC/DFT Filter: 50Hz/60Hz (-20dB)         Lowpass Filter: 150Hz/100Hz/75Hz AC Filter: 50Hz/60Hz           Filters         AC/DFT Filter: 50Hz/60Hz (-20dB)         Lowpass Filter: 150Hz/100Hz/75Hz AC Filter: 50Hz/60Hz           Filters         AC/DFT Filter: 50Hz/60Hz (-20dB)         Lowpass Filter: 150Hz/100Hz/75Hz AC Filter: 50Hz/60Hz           Filters         AC/DFT Filter: 50Hz/60Hz (-20dB)         Lowpass Filter: 150Hz/100Hz/75Hz AC Filter: 50Hz/20Hz           Filters         AC/DFT Filter: 50Hz/60Hz (-20dB)         Lowpass Filter: 50Hz/60Hz           Filters         AC/DFT Filter: 50Hz/60Hz (-20dB)         Lowpass Filter: 150Hz/100Hz/75Hz           <	Acquisition	Single lead	7 leads simultaneously
Time Constant         ≥3.2s           Frequency Response         0.05Hz ~ 150Hz           Calibration Voltage         1mV ±3%           Sensitivity         2.5, 5, 10, 20 (mm/mV)           Input Impedance         ≥10m Ω         ≥50m Ω           Input Circuit Current         ≥50nA           Noise Level         ≥15μVp-p           Anti Baseline Drift         Automatic           Patient Leakage Current         ≤0.1μA (220V~240V)           Patient Auxiliary Current         ≤0.1μA (DC)           EMG Filter: 35Hz (-3dB)         DFT Filter: 0.05/0.15/0.25/0.5Hz           Filters         AC/DFT Filter: 50Hz/60Hz (-20dB)         Lowpass Filter: 150Hz/100Hz/75Hz           AC Company         ACF Titler: 50Hz/60Hz           CMRR         >90dB         >100dB           Recording Modes         Auto/Manual         Auto/Manual/Rhythm/OFF/USBPRT           Rhythm Lead         single lead selectable           Safety Standard         IEC 1/CF           AC: 100V-115V/22QV-240V, 50/50Hz         Built-in rechargeable Li-ion battery           Power Supply         More than 3 hrs continuous work under battery supply           Thermal Recorder         Thermal dot array, 8 dots/mm vertical           Recording Paper         50mm x 30m         80mm x 20m	A/D Resolution		
Frequency Response         0.05Hz ~ 150Hz           Calibration Voltage         1mV ±3%           Sensitivity         2.5, 5, 10, 20 (mm/mV)           Input Impedance         ≥10m Ω         ≥50m Ω           Input Circuit Current         ≥50m A           Noise Level         ≥15μVp-p           Anti Baseline Drift         Automatic           Patient Leakage Current         ≤10μA (220V~240V)           Patient Auxiliary Current         ≤50m Ω           EMG Filter: 35Hz (-3dB)         DFT Filter: 25Hz/35Hz/45Hz/OFF           EMG Filter: 35Hz (-3dB)         DFT Filter: 0.05/0.15/0.25/0.5Hz           Filters         AC/DFT Filter: 50Hz/60Hz (-20dB)         DFT Filter: 50Hz/60Hz           CMRR         >90dB         >100dB           Recording Modes         Auto/Manual         Auto/Manual/Rhythm/OFF/USBPRT           Rhythm Lead         single lead selectable           Safety Standard         IEC 1/CF           AC: 100V-115V/220V-240V, 50/50Hz         Built-in rechargeable Li-ion battery           Power Supply         More than 3 hrs continuous work under battery supply           Thermal Recorder         Thermal dot array, 8 dots/mm vertical           Recording Paper         50mm x 30m         80mm x 20m           Fimm/s, 6, 25mm/s, 12,5mm/s, 50mm/s (±3%)<	Measurement Range	<u>+</u> 5mVpp	
Calibration Voltage         1mV ±3%           Sensitivity         2.5, 5, 10, 20 (mm/mV)           Input Impedance         ≥10m Ω         ≥50m Ω           Input Circuit Current         ≥50nA         Noise Level           Anti Baseline Drift         Automatic           Patient Leakage Current         ≤10μA (220V~240V)           Patient Auxiliary Current         EMG Filter: 35Hz (-3dB)         DFT Filter: 2.05/0.15/0.25/0.5Hz           Elmin Filter: 30Hz/60Hz (-20dB)         DFT Filter: 0.05/0.15/0.25/0.5Hz         EMG Filter: 35Hz (-3dB)         DFT Filter: 50Hz/35Hz/45Hz/OFF           Elmin Filter: 30Hz/60Hz (-20dB)         DFT Filter: 0.05/0.15/0.25/0.5Hz         EMG Filter: 50Hz/60Hz         EMG Filter: 50Hz/35Hz/45Hz/OFF           Elmin Filter: 30Hz/60Hz (-20dB)         DFT Filter: 0.05/0.15/0.25/0.5Hz         EMG Filter: 50Hz/35Hz/45Hz/OFF           Elmin Filter: 30Hz/60Hz (-20dB)         DFT Filter: 50Hz/35Hz/45Hz/OFF         AC Filter: 50Hz/36Hz/25Hz/35Hz/45Hz/OFF           CMRR         >90dB         >100dB         AC Filter: 50Hz/60Hz           Recording Modes         Auto/Manual         Auto/Manual/Rhythm/OFF/USBPRT           Rhythm Lead         single lead selectable           Safety Standard         IEC 1/CF           AC: 100V-115V/220V-240V, 50/50Hz         AUTo/Manual/Rhythm/OFF/USBPRT           Built-in rechargeable Li	Time Constant	≥3.2s	
Sensitivity         2.5, 5, 10, 20 (mm/mV)           Input Impedance         ≥10m Ω         ≥50m Ω           Input Circuit Current         ≥50nA         Noise Level         ≥15μVp-p           Anti Baseline Drift         Automatic         Automatic           Patient Leakage Current         ≤10μA (220V~24VV)         EMG Filter: 25Hz/35Hz/45Hz/OFF           Patient Auxiliary Current         €MG Filter: 35Hz (-3dB)         DFT Filter: 0.05/0.15/0.25/0.5Hz         DFT Filter: 0.05/0.15/0.25/0.5Hz         DFT Filter: 50Hz/60Hz         DFT Filter: 50Hz/60Hz         AC F	Frequency Response	0.05Hz ~ 150Hz	
Input Impedance         ≥10m Ω         ≥50m Ω           Input Circuit Current         ≥50m A           Noise Level         ≥15μ/Pρ-P           Anti Baseline Drift         Automatic           Patient Leakage Current         ≥10μA (220V~240V)           Patient Auxiliary Current         ≥0.1μA (DC)           Filters Auxiliary Current         EMG Filter: 35Hz (-3dB)         DFT Filter: 25Hz/35Hz/45Hz/OFF           EMG Filter: 35Hz (-3dB)         DFT Filter: 150Hz/100Hz/75Hz           AC Filter: 50Hz/60Hz (-20dB)         Lowpass Filter: 150Hz/100Hz/75Hz           AC Filter: 50Hz/60Hz (-20dB)         AC Filter: 50Hz/60Hz           CMRR         >90dB         >100dB           Recording Modes         Auto/Manual         Auto/Manual/Rhythm/OFF/USBPRT           Rhythm Lead         single lead selectable           Safety Standard         IEC 1/CF           AC: 100V-115V/220V-240V, 50/50Hz         Built-in rechargeable Li-ino battery           Power Supply         More than 3 hrs continuous work under battery supply           Thermal Recorder         Thermal dot array, 8 dots/mm vertical           Recording Paper         50mm x 30m         80mm x 20m           Recording Speeds         25mm/s, 50mm/s (±3%)         25mm/s, 50mm/s (±3%)           Dimension         300mm x 20mm	Calibration Voltage	1mV <u>+</u> 3%	
Input Circuit Current	Sensitivity	2.5, 5, 10, 20 (mm/mV)	
Noise Level   ≥15μ/p-p	Input Impedance	≥10m Ω	≥50m Ω
Anti Baseline Drift         Automatic           Patient Leakage Current         ≤10μA (220V~240V)           Patient Auxiliary Current         ≤0.1μA (DC)           EMG Filter: 25Hz/35Hz/45Hz/OFF EMG Filter: 35Hz (-3dB)         DFT Filter: 0.05/0.15/0.25/0.5Hz           Filters         AC/DFT Filter: 50Hz/60Hz (-20dB)         Lowpass Filter: 150Hz/100Hz/175Hz           AC Filter: 50Hz/60Hz           CMRR         >90dB         >100dB           Recording Modes         Auto/Manual         Auto/Manual/Rhythm/OFF/USBPRT           Rhythm Lead         single lead selectable           Safety Standard         IEC 1/CF           AC: 100V-115V/220V-240V, 50/50Hz           Built-in rechargeable Li-ion battery           Power Supply         More than 3 hrs continuous work under battery supply           Thermal Recorder         Thermal dot array, 8 dots/mm vertical           Recording Paper         50mm x 30m         80mm x 20m           5mm/s, 6.25mm/s, 12.5mm/s, 0.25mm/s, 12.5mm/s, 0.25mm/s, 12.5mm/s, 12.5mm/s, 0.25mm/s, 12.5mm/s, 0.25mm/s, 12.5mm/s, 0.25mm/s, 12.5mm/s, 0.25mm/s,	Input Circuit Current	<u>&gt;</u>	50nA
Patient Leakage Current         ≤10µA (220V~24VV)           Patient Auxiliary Current         ≤0.1µA (DC)           EMG Filter: 25Hz/35Hz/45Hz/0FF EMG Filter: 35Hz (-3dB)         DFT Filter: 0.05/0.15/0.25/0.5Hz           Filters         AC/DFT Filter: 50Hz/60Hz (-20dB)         DFT Filter: 50Hz/100Hz/75Hz AC Filter: 50Hz/60Hz           CMRR         >90dB         >100dB           Recording Modes         Auto/Manual         Auto/Manual/Rhythm/OFF/USBPRT           Rhythm Lead         single lead selectable           Safety Standard         IEC 1/CF           AC: 100V-115V/220V-240V, 50/50Hz         Built-in rechargeable Li-ion battery           Power Supply         More than 3 hrs continuous work under battery supply           Thermal Recorder         Thermal dot array, 8 dots/mm vertical           Recording Paper         50mm x 30m         80mm x 20m           Feecording Speeds         25mm/s, 50mm/s (±3%)         25mm/s, 6.25mm/s, 50mm/s (±3%)           Dimension         300mm x 260mm x 75mm           Weight         2.3kg (with battery)         2.5kg (with battery)           Display         192 x 64 dots LCD         192 x 64 dots LCD           External Input/Output         Input: ≥100kΩ; Sensitivity 10mm/V ±5%           Output: ≤100Ω; Sensitivity 1VmV ±5%	Noise Level	≥15µVp-p	
Patient Auxiliary Current≤0.1μA (DC)EMG Filter: 25Hz/35Hz/45Hz/0FF EMG Filter: 35Hz (-3dB)DFT Filter: 0.05/0.15/0.25/0.5HzFiltersAC/DFT Filter: 50Hz/60Hz (-20dB)DFT Filter: 150Hz/100Hz/75Hz AC Filter: 50Hz/100Hz/75Hz AC Filter: 50Hz/60HzCMRR>90dB>100dBRecording ModesAuto/ManualAuto/Manual/Rhythm/OFF/USBPRTRhythm Leadsingle lead selectableSafety StandardIEC 1/CFAC: 100V-115V/220V-240V, 50/50Hz Built-in rechargeable Li-ion batteryPower SupplyMore than 3 hrs continuous work under battery supplyThermal RecorderThermal dot array, 8 dots/mm verticalRecording Paper50mm x 30m80mm x 20m5mm/s, 6.25mm/s, 12.5mm/s,Recording Speeds25mm/s, 50mm/s (±3%)25mm/s, 50mm/s (±3%)Dimension300mm x 260mm x 75mmWeight2.3kg (with battery)2.5kg (with battery)Display192 x 64 dots LCD192 x 64 dots LCDExternal Input/OutputInput: ≥100kΩ; Sensitivity 10mm/V ±5% Output: ≤100Ω; Sensitivity 10mm/V ±5%	Anti Baseline Drift	Automatic	
EMG Filter: 25Hz/35Hz/45Hz/0FF     EMG Filter: 35Hz (-3dB)   DFT Filter: 0.05/0.15/0.25/0.5Hz     Filters	Patient Leakage Current	≤10µA (220V~240V)	
EMG Filter: 35Hz (-3dB)   DFT Filter: 0.05/0.15/0.25/0.5Hz	Patient Auxiliary Current	≤0.1µA (DC)	
Filters         AC/DFT Filter: 50Hz/60Hz (-20dB)         Lowpass Filter: 150Hz/100Hz/75Hz AC Filter: 50Hz/60Hz           CMRR         >90dB         >100dB           Recording Modes         Auto/Manual         Auto/Manual/Rhythm/OFF/USBPRT           Rhythm Lead         single lead selectable           Safety Standard         IEC 1/CF           AC: 100V-115V/220V-240V, 50/50Hz         Built-in rechargeable Li-ion battery           Power Supply         More than 3 hrs continuous work under battery supply           Thermal Recorder         Thermal dot array, 8 dots/mm vertical           Recording Paper         50mm x 30m         80mm x 20m           Fecording Speeds         25mm/s, 50mm/s (±3%)         25mm/s, 50mm/s (±3%)           Dimension         300mm x 260mm x 75mm           Weight         2.3kg (with battery)         2.5kg (with battery)           Display         192 x 64 dots LCD         192 x 64 dots LCD           External Input/Output         Input: ≥100kΩ; Sensitivity 10mm/v ±5%           Output: ≤100Ω; Sensitivity 1VmV ±5%		EMG Filter: 25Hz/35Hz/45Hz/OFF	
CMRR >90dB >100dB  Recording Modes Auto/Manual Auto/Manual/Rhythm/OFF/USBPRT Rhythm Lead single lead selectable Safety Standard IEC 1/CF  AC: 100V-115V/220V-240V, 50/50Hz Built-in rechargeable Li-ion battery Power Supply More than 3 hrs continuous work under battery supply Thermal Recorder Thermal dot array, 8 dots/mm vertical Recording Paper 50mm x 30m 80mm x 20m  Smm/s, 6.25mm/s, 12.5mm/s, Recording Speeds 25mm/s, 50mm/s (±3%) 25mm/s, 50mm/s (±3%) Dimension 300mm x 260mm x 75mm  Weight 2.3kg (with battery) 2.5kg (with battery) Display 192 x 64 dots LCD  External Input/Output Input: ≤100kΩ; Sensitivity 10mm/V ±5% Output: ≤100kΩ; Sensitivity 10mm/V ±5% Output: ≤100kΩ; Sensitivity 11mm/V ±5%		EMG Filter: 35Hz (-3dB)	DFT Filter: 0.05/0.15/0.25/0.5Hz
CMRR         >90dB         >100dB           Recording Modes         Auto/Manual         Auto/Manual/Rhythm/OFF/USBPRT           Rhythm Lead         single lead selectable           Safety Standard         IEC 1/CF           AC: 100V-115V/220V-240V, 50/50Hz           Built-in rechargeable Li-ion battery           Power Supply           More than 3 hrs continuous work under battery supply           Thermal Recorder           Recording Paper         50mm x 30m         80mm x 20m           5mm/s, 6.25mm/s, 12.5mm/s,           Recording Speeds         25mm/s, 50mm/s (±3%)         25mm/s, 50mm/s (±3%)           Dimension         300mm x 260mm x 75mm           Weight         2.3kg (with battery)         2.5kg (with battery)           Display         192 x 64 dots LCD         192 x 64 dots LCD           External Input/Output         Input: ≥100kΩ; Sensitivity 10mm/V ±5%           Output: ≤100Ω; Sensitivity 1VmV ±5%	Filters	AC/DFT Filter: 50Hz/60Hz (-20dB)	Lowpass Filter: 150Hz/100Hz/75Hz
Recording ModesAuto/ManualAuto/Manual/Rhythm/OFF/USBPRTRhythm Leadsingle lead selectableSafety StandardIEC 1/CFAC: 100V-115V/220V-240V, 50/50HzBuilt-in rechargeable Li-ion batteryPower SupplyMore than 3 hrs continuous work under battery supplyThermal RecorderThermal dot array, 8 dots/mm verticalRecording Paper50mm x 30m80mm x 20m5mm/s, 6.25mm/s, 12.5mm/s,Recording Speeds25mm/s, 50mm/s ( $\pm$ 3%)25mm/s, 50mm/s ( $\pm$ 3%)Dimension300mm x 260mm x 75mmWeight2.3kg (with battery)2.5kg (with battery)Display192 x 64 dots LCD192 x 64 dots LCDExternal Input/OutputInput: $\ge$ 100kΩ; Sensitivity 10mm/V $\pm$ 5%Output: $\le$ 100Ω; Sensitivity 1VmV $\pm$ 5%			AC Filter: 50Hz/60Hz
Rhythm Lead single lead selectable Safety Standard IEC 1/CF  AC: 100V-115V/220V-240V, 50/50Hz  Built-in rechargeable Li-ion battery  Power Supply More than 3 hrs continuous work under battery supply  Thermal Recorder Thermal dot array, 8 dots/mm vertical  Recording Paper 50mm x 30m 80mm x 20m  5mm/s, 6.25mm/s, 12.5mm/s,  Recording Speeds 25mm/s, 50mm/s ( $\pm$ 3%) 25mm/s, 50mm/s ( $\pm$ 3%)  Dimension 300mm x 260mm x 75mm  Weight 2.3kg (with battery) 2.5kg (with battery)  Display 192 x 64 dots LCD 192 x 64 dots LCD  External Input/Output Input: $\geq$ 100k $\Omega$ ; Sensitivity 10mm/V $\pm$ 5%  Output: $\leq$ 100 $\Omega$ ; Sensitivity 11mm/V $\pm$ 5%	CMRR	>90dB	>100dB
Safety Standard	Recording Modes	Auto/Manual	Auto/Manual/Rhythm/OFF/USBPRT
$AC: 100V-115V/220V-240V, 50/50Hz \\ Built-in rechargeable Li-ion battery \\ Power Supply & More than 3 hrs continuous work under battery supply \\ Thermal Recorder & Thermal dot array, 8 dots/mm vertical \\ Recording Paper & 50mm x 30m & 80mm x 20m \\ & & & 5mm/s, 6.25mm/s, 12.5mm/s, \\ Recording Speeds & 25mm/s, 50mm/s (\pm 3\%) & 25mm/s, 50mm/s (\pm 3\%) Dimension & 300mm x 260mm x 75mm \\ Weight & 2.3kg (with battery) & 2.5kg (with battery) \\ Display & 192 x 64 dots LCD & 192 x 64 dots LCD \\ External Input/Output & Input: \geq 100k\Omega; Sensitivity 10mm/V \pm 5\% Output: \leq 100\Omega; Sensitivity 1VmV \pm 5\%$	Rhythm Lead	single lead selectable	
Built-in rechargeable Li-ion battery         Power Supply       More than 3 hrs continuous work under battery supply         Thermal Recorder       Thermal dot array, 8 dots/mm vertical         Recording Paper       50mm x 30m       80mm x 20m         5mm/s, 6.25mm/s, 12.5mm/s,         Recording Speeds       25mm/s, 50mm/s (±3%)       25mm/s, 50mm/s (±3%)         Dimension       300mm x 260mm x 75mm         Weight       2.3kg (with battery)       2.5kg (with battery)         Display       192 x 64 dots LCD       192 x 64 dots LCD         External Input/Output       Input: ≥100kΩ; Sensitivity 10mm/V ±5%       Output: ≤100Ω; Sensitivity 1VmV ±5%	Safety Standard	IEC 1/CF	
Power SupplyMore than 3 hrs continuous work under battery supplyThermal RecorderThermal dot array, 8 dots/mm verticalRecording Paper $50 \text{mm} \times 30 \text{m}$ $80 \text{mm} \times 20 \text{m}$ $5 \text{mm/s}$ , $6.25 \text{mm/s}$ , $12.5 \text{mm/s}$ ,Recording Speeds $25 \text{mm/s}$ , $50 \text{mm/s}$ ( $\pm 3\%$ ) $25 \text{mm/s}$ , $50 \text{mm/s}$ ( $\pm 3\%$ )Dimension $300 \text{mm} \times 260 \text{mm} \times 75 \text{mm}$ Weight $2.3 \text{kg}$ (with battery) $2.5 \text{kg}$ (with battery)Display $192 \times 64 \text{ dots LCD}$ $192 \times 64 \text{ dots LCD}$ External Input/OutputInput: $\ge 100 \text{k}\Omega$ ; Sensitivity $10 \text{mm/v} + 5\%$ Output: $\le 100\Omega$ ; Sensitivity $1 \text{VmV} + 5\%$		AC: 100V-115V/220V-240V, 50/50Hz	
Thermal Recorder Thermal dot array, 8 dots/mm vertical Recording Paper 50mm x 30m 80mm x 20m 5mm/s, 6.25mm/s, 12.5mm/s, Recording Speeds 25mm/s, 50mm/s ( $\pm$ 3%) 25mm/s, 50mm/s ( $\pm$ 3%) 25mm/s, 50mm/s ( $\pm$ 3%) Dimension 300mm x 260mm x 75mm Weight 2.3kg (with battery) 2.5kg (with battery) Display 192 x 64 dots LCD 192 x 64 dots LCD External Input/Output Input: $\geq$ 100k $\Omega$ ; Sensitivity 10mm/V $\pm$ 5% Output: $\leq$ 100 $\Omega$ ; Sensitivity 1VmV $\pm$ 5%		Built-in rechargeable Li-ion battery	
Recording Paper50mm x 30m80mm x 20m5mm/s, 6.25mm/s, 12.5mm/s,Recording Speeds25mm/s, 50mm/s ( $\pm$ 3%)25mm/s, 50mm/s ( $\pm$ 3%)Dimension300mm x 260mm x 75mmWeight2.3kg (with battery)2.5kg (with battery)Display192 x 64 dots LCD192 x 64 dots LCDExternal Input/OutputInput: ≥100k $\Omega$ ; Sensitivity 10mm/V $\pm$ 5% Output: ≤100 $\Omega$ ; Sensitivity 1VmV $\pm$ 5%	Power Supply		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Thermal Recorder	Thermal dot array, 8 dots/mm vertical	
Recording Speeds25mm/s, 50mm/s (±3%)25mm/s, 50mm/s (±3%)Dimension300mm x 260mm x 75mmWeight2.3kg (with battery)2.5kg (with battery)Display192 x 64 dots LCD192 x 64 dots LCDExternal Input/OutputInput: ≥100kΩ; Sensitivity 10mm/V ±5%Output: ≤100Ω; Sensitivity 1VmV ±5%	Recording Paper	50mm x 30m	80mm x 20m
Dimension       300mm x 260mm x 75mm         Weight       2.3kg (with battery)       2.5kg (with battery)         Display       192 x 64 dots LCD       192 x 64 dots LCD         External Input/Output       Input: ≥100kΩ; Sensitivity 10mm/V ±5%         Output: ≤100Ω; Sensitivity 1VmV ±5%			5mm/s, 6.25mm/s, 12.5mm/s,
Weight2.3kg (with battery)2.5kg (with battery)Display192 x 64 dots LCD192 x 64 dots LCDExternal Input/OutputInput: ≥100kΩ; Sensitivity 10mm/V ±5%Output: ≤100Ω; Sensitivity 1VmV ±5%	Recording Speeds	25mm/s, 50mm/s ( <u>+</u> 3%)	25mm/s, 50mm/s ( <u>+</u> 3%)
Display 192 x 64 dots LCD 192 x 64 dots LCD 192 x 64 dots LCD External Input/Output Input: $\ge 100$ kΩ; Sensitivity 10mm/V $\pm 5$ % Output: $\le 100$ Ω; Sensitivity 1VmV $\pm 5$ %	Dimension	300mm x 260mm x 75mm	
External Input/Output       Input: ≥100kΩ; Sensitivity 10mm/V ±5%         Output: ≤100Ω; Sensitivity 1VmV ±5%	Weight	2.3kg (with battery)	2.5kg (with battery)
Output: ≤100Ω; Sensitivity 1VmV ±5%	Display	192 x 64 dots LCD	192 x 64 dots LCD
	External Input/Output	Input: ≥100kΩ; Se	nsitivity 10mm/V ±5%
Communication Interface RS232 Ethernet, RS232, USB		Output: ≤100Ω; S	Sensitivity 1VmV ±5%
	Communication Interface	RS232	Ethernet, RS232, USB

