



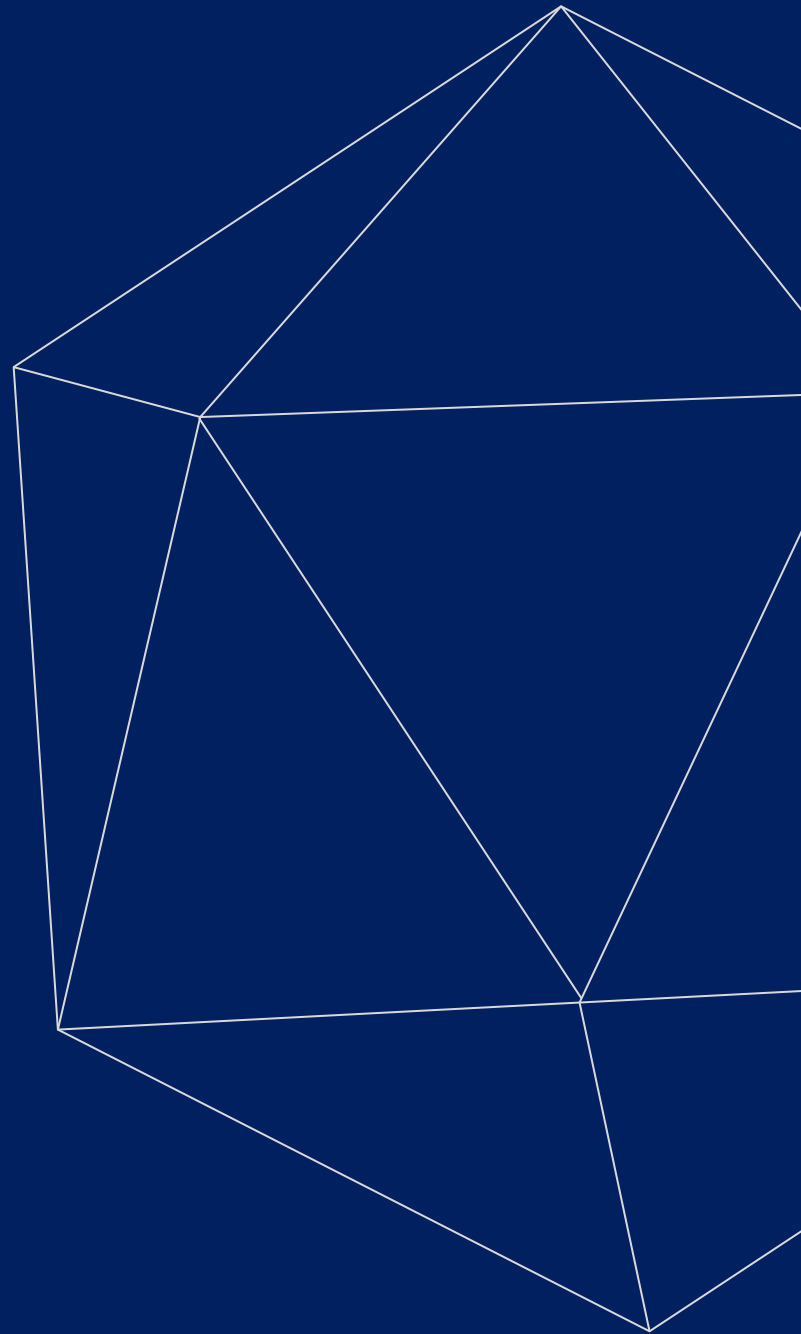
# MEDICAL LINES

## ELECTROCARDIOGRAPH



**Kalstein**®

A different accompaniment, at your service





# Kalstein®

A different accompaniment, at your service

OUR SERVICES

## Benefits and Support

In Kalstein France, we take care of the full satisfaction of our customers, that is why we provide value-added services of the highest level based on our experience.



### Online Inductions and Trainings

In any part of the world, receive your induction or training from our specialized team of engineers



### Quick Response

Our work team is always available to response all your consults or questions, in order to support you in any situation.



### #Letsgivemore ♥

Thanks to your purchase, a donation will be made to a non-profit foundation that fights against breast cancer and helps most vulnerable communities.



### Technical Support

Enjoy of personalized advice for the correct preventive and corrective maintenance of your equipment, thanks to Kalstein's manuals and articles, special catalogues and video tutorials.



### Delivery Logistics

We take care of all the necessary logistics for the dispatch of your goods, whether is by sea, land or air.



### Kalstein Worldwide

With more than 25 years growing with our customers, Kalstein's multiformat and modern content, is now present in more than 10 countries and increasing.



## 12-channel Electrocardiograph with Color Display

**Model YR05162**



### Features

- ✓ Portable 12 channel ECG machine
- ✓ Work modes: Manual/Auto/Arrhythmia analysis modes
- ✓ 7 inch color LCD with Alphabet keyboard
- ✓ Alphabetic keyboard for patient information
- ✓ Built in rechargeable Li-ion battery
- ✓ Adaptor 110-230V, 50/60Hz AC power supply
- ✓ Real-time ECG waveform, 250 patients save/replay
- ✓ Built in USB/RS232 interface(ECGNET software Optional)

### Technical Specification

- ✓ Lead standard 12leads
- ✓ Calibrating voltage: 1mV±2%
- ✓ Voltage tolerance: ≥±500mV
- ✓ Inter-channel interference: ≤0.5mm
- ✓ Frequency response: 0.05~160Hz(-3db)
- ✓ Patient current leakage: < 10μA
- ✓ Noise level: < 15μVp-p
- ✓ Sensitivity valve: ≤20μV
- ✓ Paper speed: 6.25, 12.5, 25, 50mm/s (±3%)
- ✓ Time constant: ≥3.2s
- ✓ Input dynamic range: ±10Vpp
- ✓ Filter:
  - ✓ AC filter: 50Hz / 60Hz EMG filter: 25Hz / 45Hz
  - ✓ Anti-drift filter: 0.15Hz(Adaptive)
- ✓ Sensitivity: 5, 10, 20mm/mV
- ✓ CMMR: ≥120dB (with AC filter)
- ✓ Input impedance: ≥50MΩ
- ✓ Input circuit current: ≤0.05μA
- ✓ Work mode: MAN、 AUTO、 ANALYSIS modes
- ✓ Lead acquisition 12bit/1000Hz (synchronously 12 leads)
- ✓ Input circuit: floating; protection circuit against defibrillator effect

### Standard Configuration

- Patient cable 1 set
- Limb electrode 4 sets
- Chest electrodes 6 sets
- Grounding cable 1 set
- Paper axis 1 set
- Thermal paper 1 set
- Fuse 2 sets
- 3-cord power cord 1 set
- AC Adaptor 1 set



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<https://kalstein.eu>  
**KALSTEIN FRANCE, S.A. S**



## 12-channel Electrocardiograph with Color Display

**Model YR05163**



### Features

- Portable 12 channel ECG machine
- Work modes: Manual/Auto/Arrhythmia analysis modes
- 10-inch color touch LCD
- Alphabetic keyboard for patient information
- Built in rechargeable Li-ion battery
- Adaptor 110-230V, 50/60Hz AC power supply
- Real-time ECG waveform, 250 patients save/replay
- Built in USB/RS232 interface(ECGNET software Optional)

### Technical Specification

- Lead standard 12leads
  - Calibrating voltage:  $1\text{mV} \pm 2\%$
  - Voltage tolerance:  $\geq \pm 500\text{mV}$
  - Inter-channel interference:  $\leq 0.5\text{mm}$
  - Frequency response:  $0.05 \sim 160\text{Hz} (+3\text{db})$
  - Patient current leakage:  $< 10\mu\text{A}$
  - Noise level:  $< 15\mu\text{Vp-p}$
  - Sensitivity valve:  $\leq 20\mu\text{V}$
  - Paper speed:  $6.25, 12.5, 25, 50\text{mm/s} (\pm 3\%)$
  - Time constant:  $\geq 3.2\text{s}$
  - Input dynamic range:  $\pm 10\text{Vpp}$
  - Filter:
- AC filter: 50Hz / 60Hz EMG filter: 25Hz / 45Hz  
Anti-drift filter: 0.15Hz(Adaptive)
- Sensitivity: 5, 10, 20mm/mV
  - CMMR:  $\geq 120\text{dB}$  (with AC filter)
  - Input impedance:  $\geq 50\text{M}\Omega$
  - Input circuit current:  $\leq 0.05\mu\text{A}$
  - Work mode: MAN、AUTO、ANALYSIS modes
  - Lead acquisition 12bit/1000Hz (synchronously 12 leads)
  - Input circuit: floating; protection circuit against defibrillator effect

### Standard Configuration

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OF A KALSTEIN  
EQUIPMENT**

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**Humatem**

Solidarité et coopération  
biomédicale

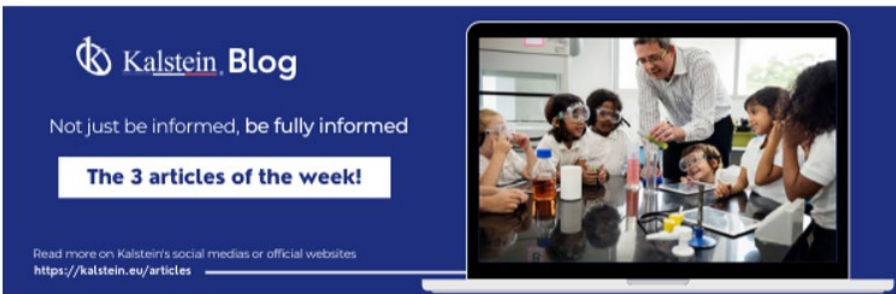
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**What is the importance of the laboratory refrigerator?**  
A refrigerator in a laboratory is one of the most important pieces of equipment. It is used to maintain, in a controlled environment (refrigerated space), various fluids and substances.

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