



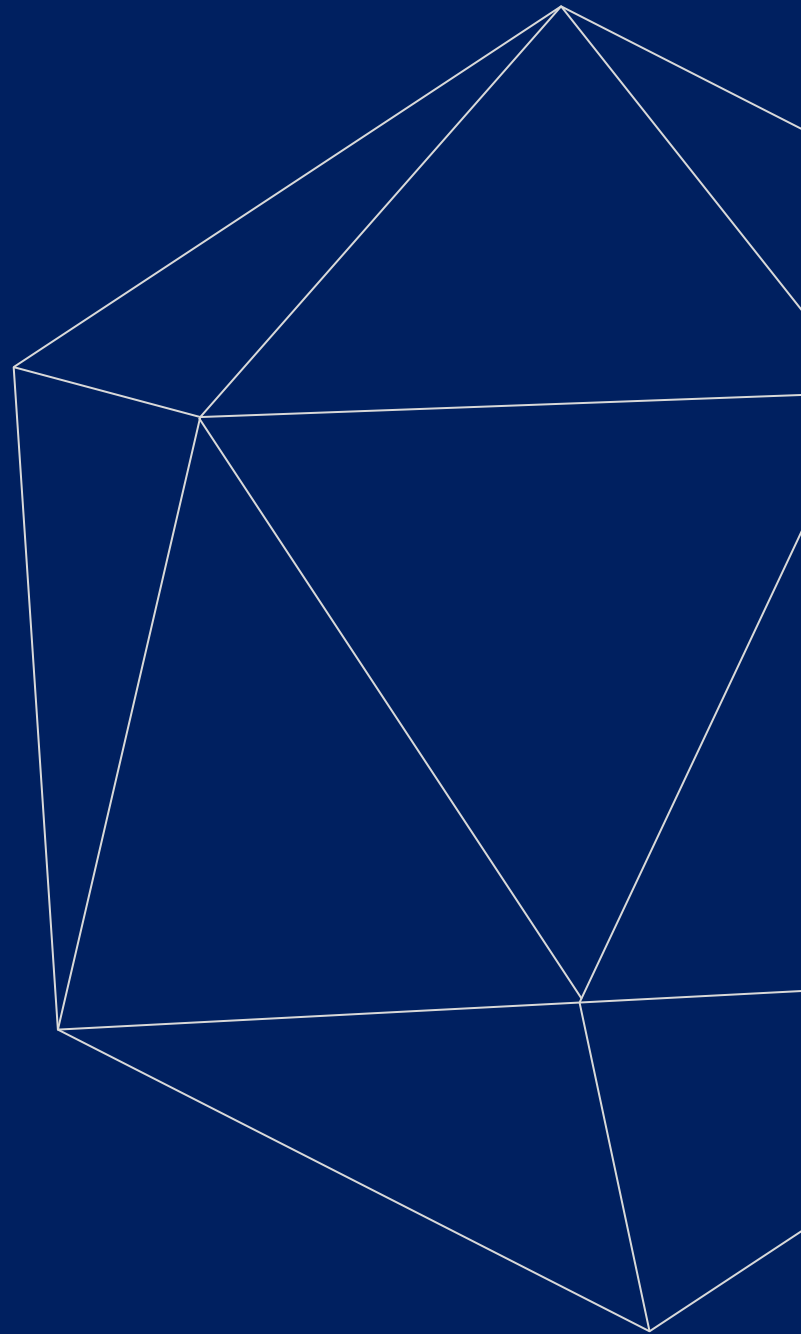
# MEDICAL LINES

## PATIENT MONITOR



# Kalstein®

A different accompaniment, at your service





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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 is made to a non-profit foundation that fights against cancer and helps 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.



# PATIENT MONITOR



 **Kalstein**<sup>®</sup>  
A different accompaniment, at your service

**Patient Monitor**  
Model YR02179



**#Letsgivemore** ♥

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**KALSTEIN FRANCE, S.A. S**



## Technical Specifications

Safety	
IEC60601-approved, CE marking to MDD93/42/EEC	
Dimension and Weight	
Dimension	304(W)×279(H)×150(D)mm
Weight	4.2kg
Operation Environment	
Power Requirement	AC100-250V, 50/60Hz, 140VA, 1.4A-0.59A
Temperature	0°C~40°C
Humidity	15%~80% (non-condensing)
Patient range	Neonate, pediatric and adult patient
Performance Specifications	
Display	10.4" Color TFT LCD Rolling and refreshing waveform display Resolution:800*600 Multi displays selectable, including Standard display Trend coexist display Large-font display OxyCRG dynamic view display
Trace	7traces Sweep speed:12.5mm/s,25mm/s,50mm/s
Indicator	Alarm indicator light Power indicator light Battery indicator light QRS beep and alarm sound
Interface	Parameter cable interface AC Power input socket Network interface External VGA interface for connection
Li-Ion Battery (one piece)	
	Rechargeable 8 hours for charging (to 90% battery capacity) ≥2 hours for continuous working 168 hours
Trend time	
Alarm	User-adjustable High, Medium, and Low limits 3-level audible and visual alarm
Networking	Connected to central station system
Recorder	
	Thermal array Waveform: 4 Channel (standard) Record mode: manual, on alarm, time-defined, etc Paper width: 112mm Print speed: 25mm/s
ECG	
Input	3-Lead or 5-Lead selectable 3 leadwire cable:RA,LA;LL or R,L;F 5 leadwire cable:RA,LA;RL;LL;V or R;L;N;F;C
Lead selection	3-lead: I,II,III 5 lead:I, II, III, V, AVR, AVL, AVF
ECG Waveform	2 channel
Gain selection	×0.25, ×0.5, ×1, ×2, ×4, Auto
Sweep speed	12.5mm/s, 25mm/s, 50mm/s
Heart Rate for Neonate	15-350BPM
Heart Rate for Adult/Pediatric	15-300BPM
Accuracy	1bpm or 1%, whichever is greater
Resolution	1bpm
Filter	Diagnostic mode:0.05-100Hz Monitor mode:0.5-40Hz Surgical mode:1.0-25Hz
Protection	Withstand 5000VAC/50Hz Voltage in Isolation Against electrosurgical interference and defibrillation
Alarm range	15-350bpm
ST segment detection	Measurement range: -2.5mv to 2.5mv Alarm range: -2.5mv to 2.5mv
Arrhythmia analysis	Yes
Alarm	Yes,audible and visual alarm, alarm event recallable
Pace detection	Yes
Drug dose calculation	Yes
Standby mode	Yes

Respiration	
Method	Thoracic impedance
Measurement range	Neonate/pediatric: 0~150rpm Adult: 0-120rpm
Apnea alarm	No alarm,10s,15s,20s, 25s,30s,35s,40s selectable
Alarm	Yes, audible and visual alarm, alarm events recallable

NIBP	
Method	Oscillometric
Measurement modes	Manual/Automatic/Continuous
Displayed parameters	Systolic, diastolic and MAP(mean arterial pressure)
Auto measure time	Adjustable
Measurement unit	mmHg/kPa selectable
Measurement type	Systolic, Diastolic, Mean
Range of Systolic pressure	Adult: 40-270mmHg Pediatric: 40-200mmHg Neonate: 40-135mmHg
Range of Diastolic pressure	Adult: 10-210mmHg Pediatric: 10-150mmHg Neonate: 10-100mmHg
Range of Mean pressure	Adult: 20-230mmHg Pediatric: 20-165mmHg Neonate: 20-110mmHg
Accuracy	±6mmHg
Resolution	1mmHg
Alarm	Systolic, Diastolic, Mean
Over-pressure protection	Double safety protection

SpO2	
Measurement range	0%~100%
Resolution	1%
Accuracy	±2%(70%-100%); unspecified(0-69%)
Alarm range	0%~100%
Pulse rate	Range:20bpm ~ 254bpm Resolution:1bpm Accuracy:±3bpm Alarm range:0~254bpm

Temperature	
Measurement range	0~50°C
Resolution	0.1°C
Accuracy	±0.1°C
Channel	T1, T2, TD

IBP	
Channels	1 or 2 selectable
Measurement range	-50~400mmHg
Resolution	1mmHg
Accuracy	±1mmHg or ±2%, whichever is greater(without sensor)
Pressure names	ART, PA, CVP, RAP, LAP, ICP
Alarm range	-50~400mmHg
Pressure transducer	
Sensitivity	5µV/mmHg
Impedance range	300-3000Ω

ETCO2	
Measurement range	0-99mmHg
Accuracy	0 to 40mmHg ±2mmHg 41 to 76mmHg ±5mmHg 77 to 99mmHg ±10mmHg
Sample flow rate	Minimum: 50ml/m-7.5ml/m Maximum: 50ml/m+15ml/m
Start-up time	<1min,once the module starts up, it reaches ISO After 1 min,enter the full accuracy mode
Respiration rate	0 to 120rpm
Respiration rate accuracy	±2 rpm
Response time	<240msec (10% to 90%)

Standard Configuration:ECG,SpO2,NIBP,TEMP,PR/HR,RESP  
Optional Functions:EtCO2,2IBP, Recorder



#Let'sgive more 

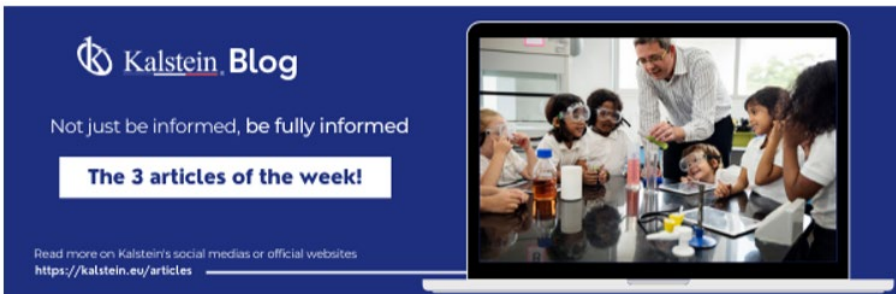
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