

THE AFFORDABLE ENTRY-LEVEL ECG DEVICE FOR EVERY PHYSICIAN

 **KES-301**



DIGITAL 3-CHANNEL ELECTROCARDIOGRAPH FOR AC AND BATTERY OPERATION

PERFORMANCE FEATURES

- | | |
|--|--------------------------------------|
| ➞ European quality standard | ➞ ECG interpretation (option) |
| ➞ Simultaneous acquisition of 12 ECG leads | ➞ ECG rhythm analysis |
| ➞ 3.8" ECG display for 12 leads | ➞ Internal memory for 12 ECG files |
| ➞ Automatic ECG measurement | ➞ SD card (option) for 250 ECG files |
-

KALAMED GMBH IS
CERTIFIED ACCORDING TO
ISO 13485:2012



**PATIENT CABLE WITH
4-MM BANANA PLUG**



**EXTREMITY
CLAMP ELECTRODES**



**CHEST WALL
SUCTION ELECTRODES**

TECHNICAL DATA

Safety standard	IEC class I, type CF
Acquisition mode	Simultaneous acquisition of 12 ECG leads
Input circuit	potential-free, defibrillation protection
A/D converter	12 bit
Time constant	≥ 3.2 s
Frequency range	0.05 Hz - 165 Hz
Sensitivity	Auto; 2.5; 5; 10; 20; 40 (mm/mV) $\pm 5\%$
Input impedance	≥ 50 M (10 Hz)
Power input circuit	≤ 50 mA
Input voltage range	± 5 mVp-p
Calibration peak	1 mV $\pm 2\%$
Depolarization voltage	± 500 mV
Noise	< 15 Vp-p
Filters	EMG filter: 25/45 Hz ADS filter: Yes/No HUM filter: Yes/No
CMRR	≥ 100 dB
Patient discharge current	< 10 μ A
Printer	Thermal array printer
Printer paper	Thermosensitive roll paper
Paper width	63 mm
Writing width	55 mm
Recording speed	5; 6.25; 10; 12.5; 25; 50 mm/s $\pm 3\%$
Dimensions	345 mm x 300 mm x 80 mm
Weight	2.5 kg

PERFORMANCE FEATURES

The KES-301 is a small and lightweight ECG device which is equipped with a 3-channel printer. The clear LCD display is used to check patient data and for a detailed display of all 12 ECG leads. The KES-301 supports 5 languages: ENG/FR/GER/SP/ITA. Recording formats from 1-channel to 3-channel are available; these can be selected in the automatic recording mode. This mode also enables the selection of an option with 1 channel + 1 rhythm lead which can be recorded as a continuous waveform, as needed. Various printing formats are available for measurements and analyses.

YOUR KALAMED DISTRIBUTOR

Medguard Professional Healthcare Supplies

Tel: +353 (0) 1 8352411

Email: sales@medguard.ie

Fax: +353 (0) 1 969 5009

Website: www.medguard.ie

Kalamed GmbH

Karl-Benz-Strasse 8 . 72124 Pliezhausen . Germany
Tel +49 (0)7127-977 6340 . Fax +49 (0)7127-977 6347
info@kalamed.de . www.kalamed.de

INTELLIGENT 6-CHANNEL ELECTROCARDIOGRAPH WITH COLOR TOUCHSCREEN

 **KES-601T**



DIGITAL 6-CHANNEL ELECTROCARDIOGRAPH **IDEAL FOR MEDICAL OFFICES AND HOUSECALLS**

PERFORMANCE FEATURES

- | | |
|-----------------------------|--|
| ➞ European quality standard | ➞ ECG interpretation (option) |
| ➞ 5.7" color touchscreen | ➞ Versatile ECG memory functions |
| ➞ Easy data entry | ➞ Direct connection for HP laser printer |
| ➞ Automatic ECG measurement | ➞ PDF export function via LAN (option) |
-

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**PATIENT CABLE WITH
4 MM BANANA PLUG**



**EXTREMITY
CLAMP ELECTRODES**



**CHEST WALL
SUCTION ELECTRODES**

TECHNICAL DATA

Safety standard	IEC class I, type CF
Acquisition mode	Simultaneous acquisition of 12 ECG leads
Input circuit	potential-free, defibrillation protection
A/D converter	24 bit
Time constant	≥ 3.2 s
Frequency range	0.05 Hz - 165 Hz
Sensitivity	Auto; 2.5; 5; 10; 20; 40 (mm/mV) $\pm 5\%$
Input impedance	≥ 50 M (10 Hz)
Power input circuit	≤ 50 mA
Input voltage range	± 5 mVp-p
Calibration peak	1 mV $\pm 2\%$
Depolarization voltage	± 500 mV
Noise	< 15 Vp-p
Filters	EMG filter: 25/35/45 Hz ADS filter: Yes/No HUM filter: Yes/No
CMRR	≥ 120 dB
Patient discharge current	< 10 μ A
Printer	Thermal array printer or ext. HP laser printer (A4)
Printer paper	Thermosensitive roll paper
Paper width	112 mm
Writing width	104 mm
Recording speed	5; 6.25; 10; 12.5; 25; 50 mm/s $\pm 3\%$
Interfaces	USB/LAN
Dimensions	345 mm x 300 mm x 80 mm
Weight	2.5 kg

PERFORMANCE FEATURES

The KES-601T is a small and light-weight ECG device which is equipped with a 6-channel printer. The clear 5.7" color touchscreen display is used for easy entry of patient data and accurate display of all 12 ECG leads. The KES-601T supports 5 languages: ENG/FR/GER/SP/ITA. Various recording formats from 3-channel to 6-channel are available; these can be selected in the automatic recording mode. ECGs may be saved on various media such as, for example, a USB stick or on the network (option). Clear ECG printouts are possible either via the integrated thermal printer or via a connected HP laser printer.

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Medguard Professional Healthcare Supplies

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Fax: +353 (0) 1 969 5009

Email: sales@medguard.ie

Website: www.medguard.ie

Kalamed GmbH

Karl-Benz-Strasse 8 . 72124 Pliezhausen . Germany
Tel +49 (0)7127-977 6340 . Fax +49 (0)7127-977 6347
info@kalamed.de . www.kalamed.de

INTELLIGENT 12-CHANNEL ELECTROCARDIOGRAPH WITH COLOR TOUCHSCREEN

 **KES-121T**



DIGITAL 12-CHANNEL ELECTROCARDIOGRAPH FOR PRIVATE PHYSICIANS, MEDICAL OFFICES AND CLINICS

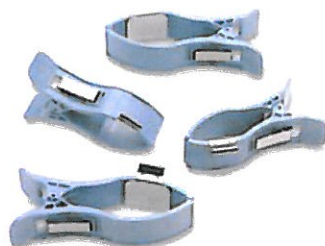
PERFORMANCE FEATURES

- | | |
|-----------------------------|--|
| ➞ European quality standard | ➞ ECG interpretation + rhythm analysis |
| ➞ 7" color touchscreen | ➞ Versatile ECG memory functions |
| ➞ Easy data entry | ➞ Direct connection for HP laser printer |
| ➞ Automatic ECG measurement | ➞ PDF export function via LAN (option) |
-

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**PATIENT CABLE WITH
4 MM BANANA PLUG**



**EXTREMITY
CLAMP ELECTRODES**



**CHEST WALL
SUCTION ELECTRODES**

TECHNICAL DATA

Safety standard	IEC class I, type CF
Acquisition mode	Simultaneous acquisition of 12 ECG leads
Input circuit	potential-free, defibrillation protection
A/D converter	24 bit
Time constant	≥ 3.2 s
Frequency range	0.05 Hz - 165 Hz
Sensitivity	Auto; 2.5; 5; 10; 20; 40 (mm/mV) $\pm 5\%$
Input impedance	≥ 50 M (10 Hz)
Power input circuit	≤ 50 mA
Input voltage range	± 5 mVp-p
Calibration peak	1 mV $\pm 2\%$
Depolarization voltage	± 500 mV
Noise	< 15 Vp-p
Filters	EMG filter: 25/35/45 Hz ADS filter: Yes/No HUM filter: Yes/No
CMRR	≥ 120 dB
Patient discharge current	< 10 μ A
Printer	Thermal array printer or ext. HP laser printer (A4)
Printer paper	Thermosensitive roll paper
Paper width	216 mm
Writing width	210 mm
Recording speed	5; 6.25; 10; 12.5; 25; 50 mm/s $\pm 3\%$
Interfaces	USB/LAN
Dimensions	345 mm x 280 mm x 90 mm
Weight	3.5 kg

PERFORMANCE FEATURES

The KES-121T is a high-quality 12-channel ECG device which is equipped with a 216-mm thermal printer. The clear 7" color touchscreen display is used for easy entry of patient data and accurate display of all 12 ECG leads.

The KES-121T supports 5 languages: ENG/FR/GER/SP/ITA. Various recording formats from 3-channel to 12-channel are available; these can be selected in the automatic recording mode. ECGs may be saved on various media such as, for example, a USB stick or on the network (option). Clear ECG printouts are possible either via the integrated thermal printer or via a connected HP laser printer.

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Medguard Professional Healthcare Supplies

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Email: sales@medguard.ie

Fax: +353 (0) 1 969 5009

Website: www.medguard.ie

Kalamed GmbH

Karl-Benz-Strasse 8 . 72124 Pliezhausen . Germany
Tel +49 (0)7127-977 6340 . Fax +49 (0)7127-977 6347
info@kalamed.de . www.kalamed.de

HIGH-END 12-CHANNEL ELECTROCARDIOGRAPH FOR RESTING AND STRESS ECG

 **KES-121L**



DIGITAL 12-CHANNEL ELECTROCARDIOGRAPH WITH LARGE 12" COLOR TOUCHSCREEN IDEAL FOR REST AND STRESS ECG

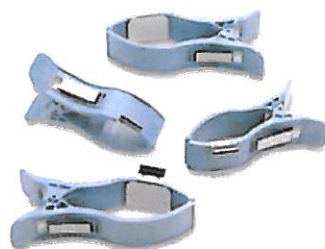
PERFORMANCE FEATURES

- | | |
|--|--|
| ➞ European quality standard | ➞ Automatic ergometer control |
| ➞ Easy data entry | ➞ Versatile ECG memory functions |
| ➞ Automatic ECG measurement | ➞ Direct connection for HP laser printer |
| ➞ ECG interpretation + rhythm analysis | ➞ PDF export function via LAN (option) |
-

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**PATIENT CABLE WITH
4 MM BANANA PLUG**



**EXTREMITY
CLAMP ELECTRODES**



**CHEST WALL
SUCTION ELECTRODES**

TECHNICAL DATA

Safety standard	IEC class I, type CF
Acquisition mode	Simultaneous acquisition of 12 ECG leads
Input circuit	potential-free, defibrillation protection
A/D converter	24 bit
Time constant	≥ 3.2 s
Frequency range	0.05 Hz - 165 Hz
Sensitivity	Auto; 2.5; 5; 10; 20; 40 (mm/mV) $\pm 5\%$
Input impedance	≥ 50 M (10 Hz)
Power input circuit	≤ 50 mA
Input voltage range	± 5 mVp-p
Calibration peak	1 mV $\pm 2\%$
Depolarization voltage	± 500 mV
Noise	< 15 Vp-p
Filters	EMG filter: 25/35/45 Hz ADS filter: Yes/No HUM filter: Yes/No
CMRR	≥ 120 dB
Patient discharge current	< 10 μ A
Printer	Thermal array printer or ext. HP laser printer (A4)
Printer paper	Thermosensitive paper (roll or folded paper)
Paper width	216 mm
Writing width	210 mm
Recording speed	5; 6.25; 10; 12.5; 25; 50 mm/s $\pm 3\%$
Interfaces	USB/LAN
Dimensions	420 mm x 324 mm x 112 mm
Weight	5.0 kg

PERFORMANCE FEATURES

The KES-121L is a high-end 12-channel ECG device which is equipped with a 216-mm thermal printer. Informative stress ECG examinations can be easily performed using the KES-121L. The large 12.1" color touchscreen display is used for easy entry of patient data and accurate display of all 12 ECG leads, even during stress. The KES-121L supports 5 languages: ENG/FR/GER/SP/ITA. Various recording formats from 3-channel to 12-channel are available; these can be selected in the automatic recording mode. ECGs may be saved on various media such as, for example, a USB stick or on the network (option). Clear ECG printouts are possible either via the integrated thermal printer or via a connected HP laser printer.

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Medguard Professional Healthcare Supplies

Tel: +353 (0) 1 8352411

Email: sales@medguard.ie

Fax: +353 (0) 1 969 5009

Website: www.medguard.ie

Kalamed GmbH

Karl-Benz-Strasse 8 . 72124 Pliezhausen . Germany

Tel +49 (0)7127-977 6340 . Fax +49 (0)7127-977 6347

info@kalamed.de . www.kalamed.de

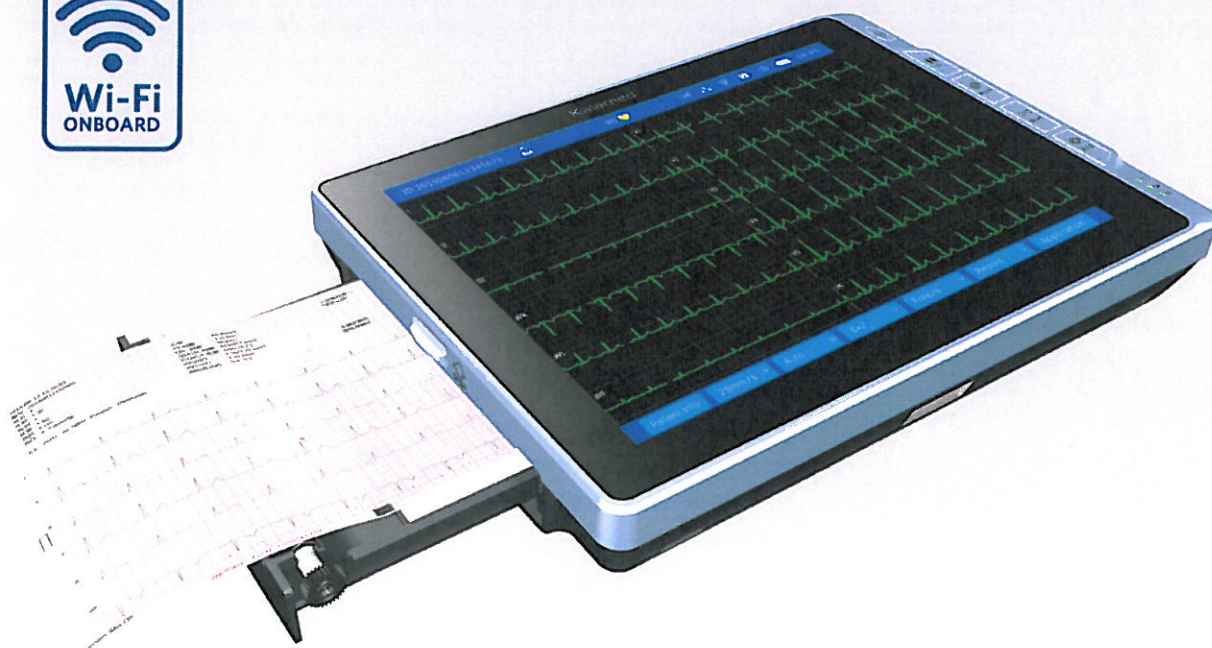
**MEDICA 2017
INNOVATION**

Kalamed
Medical Systems

POLYMED GROUP  SUISSE

12-CHANNEL ECG WITH TOUCHSCREEN-TECHNOLOGY

 **KET-1200**



10,4" COLOUR-LCD WITH 1024 x 768 PIXELS
WITH MEMORY FOR 1'000 RECORDINGS

PRODUKTMERKMALE

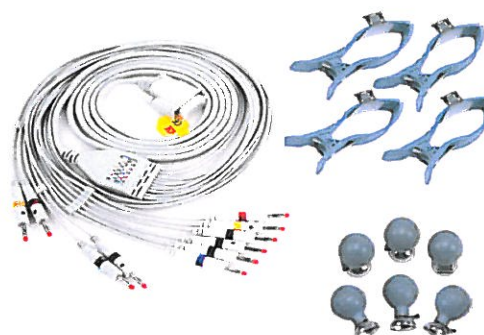
- | | |
|---|--|
| ⇒ Built-in thermal printer for Z-fold paper | ⇒ High sampling rate of 32.000 Hz |
| ⇒ Simultaneous 12 Lead recording | ⇒ Digital ECG-resolution 24 bit |
| ⇒ Leads: Standard / Cabrera / etc. | ⇒ Various interfaces to computer and HIS |
| ⇒ Measurement <u>and Interpretation</u> | ⇒ Wi-Fi Interface for data transmission |
| ⇒ Display resolution 1024 x 768 | ⇒ Battery operation (Li-Io Battery) min. 4 hr. |
| ⇒ Simple touch-screen operation | ⇒ weighs only 1,6 kg (incl. Battery) |



TRANSPORT CASE
(OPTION)



REAR VIEW



STANDARD - ACCESSORIES

TECHNICAL DATA

Safety standard	IEC-class I, type CF
Acquisition mode	simultaneous acquisition of 12 leads
Input circuit	potential-free, defibrillation protection
A/D-converter	24 bit
Time constant	$\geq 3,2$ s
Sampling rate	32.000 Hz per each channel
Sensitivity	Auto; 2,5; 5; 10; 20; 40 (mm/mV)
Input impedance	≥ 50 M Ω (10 Hz)
Frequency response	0,01 - 350 Hz
CMRR	≥ 130 dB
calibration	1 mV \pm 2 %
Patient leakage current	< 10 μ A
Filter	EMG / Hum / ADS-Filter (Anti-Drift-Filter)
Internal memory	> 1.000 ECG
Display resolution	1.024 x 768 pixel
Data transfer	LAN / Wi-Fi
Storage format	GDT, PDF, PNG, XML, HL7, SCP
Mains operation	100V-240V, 50Hz/60Hz, 75VA
Battery operation	Li-Io battery continuous operation min 4 hrs.
Printer	Thermal-head printer
Printer paper	Thermo sensitive Z-fold paper 112mm x 20m
Printer resolution	8 points/mm vertical / 40 points/mm horizontal
Recording speed	5; 6,25; 12,5; 25; 50 mm/s
Dimensions	275 mm x 203 mm x 47,5 mm
Weight	1,1 kg (without battery) 1,6 kg (with battery)

PERFORMANCE FEATURES

The KET-1200 is a lightweight and portable, easy to operate ECG with comfortable, crisp LCD touchscreen, equipped with a high resolution 12 channel 112 mm thermo printer.

The easy to view colour LCD Display is used to simultaneously show all 12 leads. The KET-1200 supports 5 Languages being: English, French, German, Italian and Spanish.

Various recording formats are available for selection in the Auto Mode. The Rhythm program allows continuous recording in various time intervals. For measurement and analysis a range of printout formats are available.

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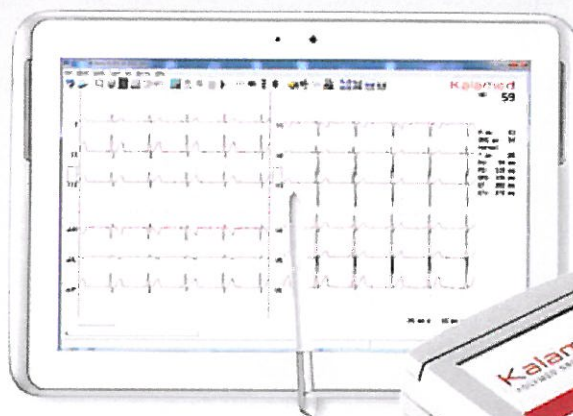
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Kalamed GmbH

Karl-Benz-Strasse 8 . 72124 Pliezhausen . Germany
Tel +49 (0)7127-977 6340 . Fax +49 (0)7127-977 6347
info@kalamed.de . www.kalamed.de

INNOVATIVE PC-ECG SOLUTION NOW ALSO FOR HOUSECALLS

 **KEC-1000**



INCLUDING WINDOWS SOFTWARE
AND ANDROID APP

STANDARD ACCESSORIES

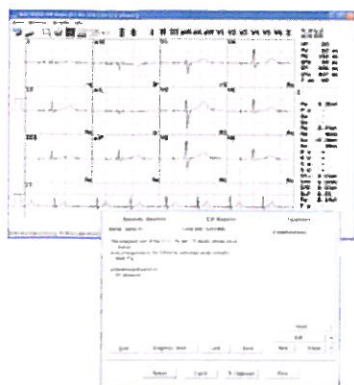


HIGH-QUALITY 12-CHANNEL PC-ECG SYSTEM WITH USB OR WIFI CONNECTION

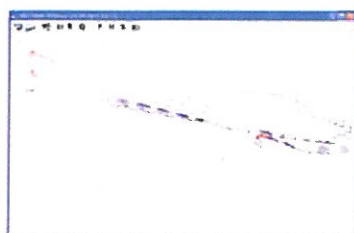
PERFORMANCE FEATURES

- ⊕ European quality standard
- ⊕ Simultaneous acquisition of 12 ECG leads
- ⊕ Leads: Standard/Cabrera/Nehb/Frank
- ⊕ ECG measurement and interpretation
- ⊕ Very easy installation within 5 minutes
- ⊕ User-friendly Windows network software
- ⊕ incl. 3-D vector cardiogram
- ⊕ incl. DDT interface for office data processing system
- ⊕ Ergometry software (option)
- ⊕ USB version with power supply via USB
- ⊕ WiFi version (optional) with power supply via rechargeable LiPo battery

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MEASUREMENT/INTERPRETATION



3-D VECTOR ECG



AUTOM. ERGOMETER CONTROL

PERFORMANCE FEATURES

The KEC-1000 PC-ECG system can be installed very easily and quickly on any Windows office network. It can be connected to a PC via a conventional USB cable as well as via WiFi. Patient database and interfaces, e.g. DDT/HL7 to the office/hospital EDP system are likewise standard features, as is the easy integration into existing network environments.

The basic version KEC-1000 includes the most important functions which must be separately purchased in the case of most suppliers including, for example, network function, emergency ECG, 3-D vector ECG, ECG comparison and many others.

Any desired amount of patient data and ECG recordings are automatically stored centrally and can be displayed at any time on any PC within the in-house network and printed on any conventional printer.

The software module ergometry including continuous saving of the entire ECG with HRV evaluation and the automatic control of the ergometer via the PC are available as an option for an additional charge. Most of the bicycle and reclining ergometers currently available on the medical device market have already been preconfigured in the software.

TECHNICAL DATA

Sampling rate	2000 samples/s
Resolution	24 bit
Number of channels	12
Input impedance	> 10 MΩ
Patient protection	IEC 601
Defibrillator protection	5 kV (1 kV/ms)
Common mode rejection	> 120 dB
Filters	35/50/60/100/120 Hz
Time constant	3.2 s
Linearity error	< 0.5%, < 1/2 LSB
Polarization voltage	± 400 mV
ECG leads	12 Standard/Cabrera/Frank
Dimensions	131 x 73 x 25 mm
Weight	USB: 140 g/WiFi: 160 g

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Email: sales@medguard.ie

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Kalamed GmbH

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Tel +49 (0) 7127-977 6340 · Fax +49 (0) 7127-977 6347
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INNOVATIVE PC SPIROMETER SYSTEM NOW ALSO FOR MOBILE USE

 **KSP-1000**



INCLUDING WINDOWS SOFTWARE
AND ANDROID APP



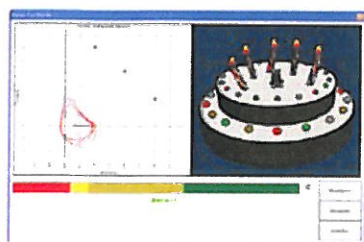
STANDARD ACCESSORIES

PC SPIROMETER FOR PULMONARY FUNCTION TESTING ALSO SUITABLE FOR COPD AND ASTHMA

PERFORMANCE FEATURES

- ➞ European quality standard
- ➞ Connection to PC via USB/Bluetooth
- ➞ Cost-efficient design, sturdy, mechanical components with long life
- ➞ Use of reasonably priced standard bacterial filters or standard mouthpieces
- ➞ No moving parts, automatic internal calibration
- ➞ Easy to clean and disinfect
- ➞ Measurement of all standard pulmonary function parameters
- ➞ Report generator for clear printouts

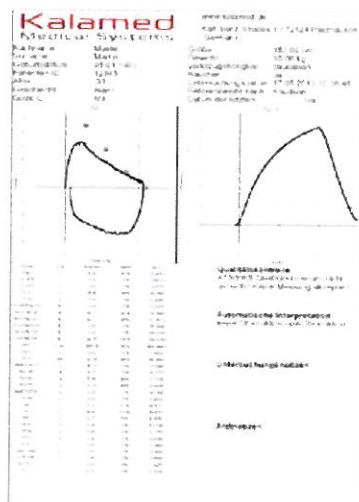
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ANIMATED SEQUENCES FOR CHILDREN



ANDROID APP



PRINTOUT ON WINDOWS PRINTER

TECHNICAL DATA

Flow meter	WaveFont principle (ultrasound)
Tolerance	+/- 3 %
Resolution	8 mL/s
Flow range	+/- 18 L/s
Digital sampling rate	100 MHz
Power supply	USB/internal battery for Bluetooth
Forced expiration and inspiration	FVC, FEV1, FEV0,5, FEV3, PIF and many others
Inspiratory vital capacity	VC, IVC, ERV, TV and many others
Respiratory threshold	MVV
PC operating system	Windows XP/Windows 7
Required interface	USB/Bluetooth
Animated sequences for children	Candles/curtain
Dimensions	150 x 60 x 27 mm
Weight	USB: 100 g/Bluetooth 200 g

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Fax: +353 (0) 1 969 5009

Email: sales@medguard.ie

Website: www.medguard.ie

PERFORMANCE FEATURES

The KSP-1000 PC spirometer system can be easily installed on any Windows office network. It can be connected to a PC via a conventional USB cable as well as via Bluetooth. Patient database and interfaces, e.g. DDT/HL7 to the office/hospital EDP system are likewise standard features, as is the easy integration into existing network environments.

The KSP-1000 PC spirometer system offers various modes of measurement such as forced expiration and inspiration, measurement of the static vital capacity as well as maximum respiratory threshold values. Cumbersome spirometer calibration is no longer necessary.

Any desired amount of patient data and spirometer recordings are automatically stored centrally and can be displayed at any time on any PC within the in-house network and printed on any conventional printer.

The securely integrated measurement tube can be disinfected using a cold disinfection agent. This also allows for the use of conventional cardboard or plastic mouthpieces. However, we recommend the use of disposable bacteria filters from our range of accessories.

Kalamed GmbH

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Tel +49 (0)7127-977 6340 . Fax +49 (0)7127-977 6347
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