



THE AFFORDABLE ENTRY-LEVEL ECG DEVICE FOR EVERY PHYSICIAN





DIGITAL 3-CHANNEL ELECTROCARDIOGRAPH

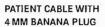
FOR AC AND BATTERY OPERATION

- (i) European quality standard
- → Simultaneous acquisition of 12 ECG leads
- 3.8" ECG display for 12 leads
- (Automatic ECG measurement

- ⊕ ECG interpretation (option)
- ⊕ ECG rhythm analysis
- ⊕ SD card (option) for 250 ECG files









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	≥3.2s	
Frequency range	0.05 Hz - 165 Hz	
Sensitivity	Auto; 2.5; 5; 10; 20; 40 (mm/mV) ± 5%	
Input impedance	≥ 50 M (10 Hz)	
Power input circuit	≤ 50 mA	
Input voltage range	± 5 mVp-p	
Calibration peak	1 mV ± 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 µA	
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±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.

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INTELLIGENT 6-CHANNEL ELECTROCARDIOGRAPH WITH COLOR TOUCHSCREEN





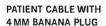
DIGITAL 6-CHANNEL ELECTROCARDIOGRAPHIDEAL FOR MEDICAL OFFICES AND HOUSECALLS

PERFORMANCE FEATURES

- (i) European quality standard
- ⊕ 5.7" color touchscreen
- ⊕ Easy data entry
- Automatic ECG measurement

- ⊕ ECG interpretation (option)
- Direct connection for HP laser printer
- DF export function via LAN (option)

KALAMED GMBH IS
CERTIFIED ACCORDING TO
ISO 13485:2012





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) ± 5%	
Input impedance	≥50 M (10 Hz)	
Power input circuit	≤ 50 mA	
Input voltage range	±5mVp-p	
Calibration peak	1 mV ± 2%	
Depolarization voltage	± 500 mV	
Noise	<15 Vp-p	
Filters	EMG filter: 25/35/45Hz	
	ADS filter: Yes/No	
	HUM filter: Yes/No	
CMRR	≥ 120 dB	
Patient discharge current	< 10 µA	
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±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 lightweight 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 6channel 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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INTELLIGENT 12-CHANNEL ELECTROCARDIOGRAPH WITH COLOR TOUCHSCREEN



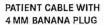
DIGITAL 12-CHANNEL ELECTROCARDIOGRAPHFOR PRIVATE PHYSICIANS, MEDICAL OFFICES AND CLINICS

- ⊕ European quality standard
- ⊕ 7" color touchscreen
- ⊕ Easy data entry
- Automatic ECG measurement

- Θ ECG interpretation + rhythm analysis
- Direct connection for HP laser printer
- → PDF export function via LAN (option)









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) ± 5%		
Input impedance	≥50 M (10 Hz)		
Power input circuit	≤50 mA		
Input voltage range	± 5 mVp-p		
Calibration peak	1 mV ± 2%		
Depolarization voltage	± 500 mV		
Noise	<15Vp-p		
Filters	EMG filter: 25/35/45 Hz		
	ADS filter: Yes/No		
	HUM filter: Yes/No		
CMRR	≥120 dB		
Patient discharge current	< 10 µA		
Printer	Thermal array printer or		
rinitei	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 ± 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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KES121^{T/V}1/2014/05



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



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

PERFORMANCE FEATURES

- ⊕ European quality standard
- ⊕ Easy data entry
- (Automatic ECG measurement
- ⊖ ECG interpretation + rhythm analysis
- Automatic ergometer control
- Direct connection for HP laser printer
- → PDF export function via LAN (option)

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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) ± 5%	
Input impedance	≥ 50 M (10 Hz)	
Power input circuit	≤ 50 mA	
Input voltage range	± 5 mVp-p	
Calibration peak	1 mV ± 2%	
Depolarization voltage	± 50 0 mV	
Noise	<15 Vp-p	
Filters	EMG filter: 25/35/45Hz	
	ADS filter: Yes/No	
	HUM filter: Yes/No	
CMRR	≥120 dB	
Patient discharge current	<10 µA	
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±3%	
nterfaces	USB/LAN	
Dimensions	420 mm x 324 mm x 112 mm	
Weight	5.0 kg	

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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.









INNOVATIVE PC-ECG SOLUTION NOW ALSO FOR HOUSECALLS





HIGH-QUALITY 12-CHANNEL PC-ECG SYSTEM

WITH USB OR WIFI CONNECTION

- (ii) European quality standard
- (a) Simultaneous acquisition of 12 ECG leads
- (Leads: Standard/Cabrera/Nehb/Frank
- (E) ECG measurement and interpretation
- (9) Very easy installation within 5 minutes
- User-friendly Windows network software

- incl. 3-D vector cardiogram
- (H) 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



MEASUREMENT/INTERPRETATION



3-D VECTOR ECG



AUTOM. ERGOMETER CONTROL

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	>120dB	
Filters	35/50/60/100/120 Hz	
Time constant	3.2 s	
Linearity error	<0.5%, <1/2LSB	
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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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 inhouse 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.







INNOVATIVE PC SPIROMETER SYSTEM NOW ALSO FOR MOBILE USE



PC SPIROMETER FOR PULMONARY FUNCTION TESTING

ALSO SUITABLE FOR COPD AND ASTHMA

- European quality standard
- Onnection 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





ANIMATED SEQUENCES FOR CHILDREN

PRESENTE OF STATE OF

PRINTOUT ON WINDOWS PRINTER



ANDROID APP

TECHNICAL DATA

Flow meter	WavefFont 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	
leight USB: 100 g/Bluetooth 200 g		

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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.









OUR NEWEST PORTABLE B/W ULTRASOUND SYSTEM WITH SUPERIOR IMAGE QUALITY AND INTEGRATED CW-DOPPLER





FULLY DIGITAL ULTRASOUND SYSTEM WITH 2 PROBE CONNECTIONS

- German quality standard
- (b) Intelligent and ergonomic design
- Optimized, smooth workflows
- Highest performance despite the compact design
- Also for mobile use

- Onnections for two transducers
- Various memory options:Hard drive / USB stick / DICOM interface
- Convex, linear, microconvex and transvaginal transducers (128 elements)
- (8 levels)









COMPACT AND EASY TO TRANSPORT



MOBILE EQUIPMENT CARRYING CASE (OPTION)

Display mode B-mode THI / PW Doppler / M mode BM-Mode

Focusing mode

Acoustic lens focusing, multipoint focusing, point-to-point focusing

Grayscale 256 grayscale + 7 pseudo-color functions

Frame rate max. 100 frames/s

Monitor 15-inch high resolution LCD, resolution: 1024x768

Video output PAI -D, NTSC, DVI, S-VIDEO

Measurement range ≤ 260 mm

Depth gain compensation

DICOM 3.0 interface Storage of individual images and multiframe

images in the DICOM format. Supports DICOM 3.0 Overall gain continuously adjustable, 8 adjustable depth compensation controllers, TGC curve display

Sound power 20 - 100% adjustable

Digital scanning converter 640 x 480 x 8 bits

Dynamic range 0-100 dB

Zoom 21 levels adjustable, 4 levels for acoustic zoom 8 body markers >100 with indication of transducer position

Distance, area/scope, volume, angle,

General measurements ratio, orthopedics, stenosis, profile, heart rate, time,

EF Slope

Software Pregnancy, urology, cardiology, pediatrics

Date, week, time, name of patient, name of physician, name of hospital, transducer frequency, depth, scan angle, focus position, frame rate, depth com-

pensation, sound power, single image averaging, line averaging, edge enhancement, dynamic area, gamma correction, sex, body marking, arrow of transducer

position, full image editing, notes, etc.

Power supply 200 - 240 V ~, 50/60 Hz

Power consumption 80 VA
Continuous operation ≥8 hours

Dimensions 440 mm x 420 mm x 355 mm (H x W x D)

Weight 8.5 kg



PERFORMANCE FEATURES

The KUP-101+ is a high-quality, fully digital Ultrasound system at an low price designed for stationary as well as mobile use. The KUP-101+ Ultrasound uses innovative, fully digital technology to deliver high-resolution images with the highest possible degree of diagnostic accuracy. The backlit keyboard and efficient work flow simplify daily operation for the user. The portable device is not only innovative in its design but with 8.5 kg (including integrated battery) very light in weight. The KUP-101+ is rugged and reliable wherever you are using it.

The KUP-101+ offers many storage options such as an internal hard drive and USB stick and enables data transfer to a PDMS using DICOM 3.0.

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KUP101+/V0/2015/03

Settings











MODERN, PORTABLE COLOR ULTRASOUND DOPPLER SYSTEM WITH UNBEATABLE IMAGE QUALITY



FULLY DIGITAL ULTRASOUND SYSTEM WITH 2 PROBE CONNECTIONS

- (B) German quality standard
- (i) Intelligent and ergonomic design
- Optimized, smooth workflows
- Highest performance despite the compact design
- (a) Also for mobile use

- (Example 2) Connections for two transducers
- Various memory options:Hard drive / USB stick / DICOM interface
- Convex, linear, microconvex and transvaginal transducers (128 elements)
- → Speckle reduction technology (8 levels)









COMPACT AND EASY TO TRANSPORT



MOBILE EQUIPMENT CARRYING CASE (OPTION)

Display mode B-mode THI / CFM / PDI / PW Doppler / M mode

Focusing mode

Acoustic lens focusing, multipoint focusing, point-to-point focusing

Grayscale 256 grayscale + 7 pseudo-color functions

Frame rate max. 100 frames/s

Monitor 15-inch high resolution LCD, resolution: 1024x768

Video output PAL-D, NISC, DVI, S-VIDEO

Measurement range ≤ 260 mm

Depth gain compensation

DICOM 3.0 interface Storage of individual images and multiframe

images in the DICOM format. Supports DICOM 3.0 Overall gain continuously adjustable, 8 adjustable depth compensation controllers, TGC curve display

Sound power 20 – 100% adjustable

Digital scanning converter 640 x 480 x 8 bits

Dynamic range 0 - 100 dB

Zoom 21 levels adjustable, 4 levels for acoustic zoom

Body markers >100 with indication of transducer position

Distance, area/scope, volume, angle,
General measurements ratio, orthopedics, stenosis, profile, heart rate, time,

EF Slope

Software Pregnancy, urology, cardiology, pediatrics

Date, week, time, name of patient, name of physician, name of hospital, transducer frequency, depth, scan angle, focus position, frame rate, depth com-

Settings pensation, sound power, single image averaging, line averaging, edge enhancement, dynamic area, gamma correction, sex, body marking, arrow of transducer

position, full image editing, notes, etc.

Power supply 200 - 240 V ~, 50/60 Hz

Power consumption 80 VA
Continuous operation ≥8 hours

Dimensions 440 mm x 420 mm x 355 mm (H x W x D)

Weight 8.5 kg



PERFORMANCE FEATURES

The KUP-111 is a high-quality, fully digital colour Doppler system at an affordable price designed for stationary as well as mobile use. The KUP-111 uses innovative, fully digital technology to deliver high-resolution images with the highest possible degree of diagnostic accuracy. The backlit keyboard and efficient work flow simplify daily operation for the user. The portable device is not only innovative in its design but with 8.5 kg (including integrated battery) very light in weight. The KUP-111 is rugged and reliable in wherever you are using it. The KUP-111 offers many storage options such as an internal hard drive and USB stick and enables data transfer to a PDMS using DICOM 3.0.

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PORTABLE COLOUR DOPPLER ULTRASOUND SYSTEM IDEAL FOR THE MODERN PRAXIS AND CLINIC





DIGITAL ULTRASOUND-SYSTEM WITH 2 PROBE CONNECTORS

CAPABILITIES:

- Omplies to German quality standards
- (h) Intelligent and ergonomic design
- (b) Optimal and quick workflow
- (b) Maximum performance / compact design
- (F) Tiltable LCD Monitor

- () Connection for 2 transducers
- ⊕ Convex-, Linear-, Phased Array- and Transvaginal transducers (128 elements)
- → Speckle Reduction Technologie (8 steps)









COMPACT AND EASY TO TRANSPORT



MOBILE EQUIPMENT CARRYING CASE (OPTION)



OPTIONS

Display mode	B- / CFM / PDI / PW+CW Doppler / M mode	
Focusing mode	Acoustic lens focusing, multipoint focusing, point-to-point focusing	
Grayscale	256 grayscale + 7 pseudo-color functions	
Frame rate	max. 200 frames/s	
Monitor	15-inch high resolution LCD, resolution: 1024x768	
Video output	PAL-D, NTSC, DVI, S-VIDEO	
Measurement range	≤260 mm	
DICOM 3.0 interface	Storage of individual images and multiframe images in the DICOM format. Supports DICOM 3.0	
Depth gain compensation	Overall gain continuously adjustable, 8 adjustable depth compensation controllers, TGC curve display	
Sound power	20 - 100% adjustable	
Digital scanning converter	640 x 480 x 8 bits	
Dynamic range	0 - 100 dB	
Zoom	21 levels adjustable, 4 levels for acoustic zoom	
Body markers	>100 with indication of transducer position	
	Distance, area/scope, volume, angle,	
General measurements	ratio, orthopedics, stenosis, profile, heart rate, time, EF Slope	
Software	Pregnancy, urology, cardiology, pediatrics	
Settings	Date, week, time, name of patient, name of physician, name of hospital, transducer frequency, depth, scan angle, focus position, frame rate, depth compensation, sound power, single image averaging, line averaging, edge enhancement, dynamic area, gamma	
m-	correction, sex, body marking, arrow of transducer position, full image editing, notes, etc.	
Power supply	200 - 240 V ~, 50/60 Hz	
Power consumption	140VA	
Continuous operation	≥ 8 hours	
Dimensions	400 mm x 400 mm x 150 mm (H x W x D) 400 mm x 400 mm x 150 mm (open keyboard)	
Weight	11.7kg including 2 probes	

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CAPABILITIES

The KUP-211 is a high-grade full digital colour Doppler system with excellent picture quality, designed for stationary as well as mobile use.

Thanks to innovative and full digital technology the KUP-211 is able to produce high grade picture for best possible diagnostic value. A backlit keyboard and efficient mode of operation help the user economising his daily tasks. Innovative design makes it possible to reduce the weight to only 11.5 kg, making the KUP-211 easy to transport. The KUP-211 is a reliable instrument extremely flexible in its use. The KUP-211 offers many ways in storing your data on either the internal hard disk, or a USB stick and allows data transmission to a data management system via DICOM 3.0 or Sono-GDT.





THE AFFORDABLE ULTRASOUND SCANNER WITH COLOR DOPPLER FUNCTION





FULLY DIGITAL COLOR ULTRASOUND SYSTEM

- (European quality standard
- High-resolution 15" LCD monitor
- (in telligent and ergonomic design
- Optimized, smooth workflows

- → BW/CFM/CW/PDI modes
- Onnectors for three transducers
- Document management system and connection to DICOM 3.0
- Selection of various transducers





TECHNICAL DATA	
Transducer frequency	2.0 - 12.0 MHz
Display mode	B, 2B, 4B, M, B + M, CFM / CW / PDI
Focusing modes	Dynamic focusing, acoustic lens focusing, multipoint focusing
Measurement methods	Dynamic apodization, dynamic aperture, dynamic frequency scanning, multi-acoustic beam
Pre-processing	Low-noise preamplifier, TGC, wave filter, image averaging, line averaging
Post-processing	Gamma correction, histogram, DSC (digital scan conversion), edge enhancement, noise suppression, equalization, image optimization, grayscale transformation, pseudo-color, color persistence, etc.
Display functions	Freeze image on/off, left-right reversal, top-bottom reversal, polarity reversal, image rotation (90°/270°), pseudo-color
Transformation and acoustic field control	Sound power, focus position, scan angle, frame rate, depth, dimensions of the scan area
Grayscale	256
Frame rate max.	70 frames/s
Measurement range	≥320 mm
Line density	Max. 256 lines/image
Monitor	15" color LCD monitor
Video output	PAL-D, S-Video, NTSC, composite
Digital scanning converter	1024 x 768 x 8 bit
Body marking	112 body markings with transducer position
General measurements	2D distance, area, volume, angle, M distance, time, slope, speed, heart rate
Image memory	Hard drive for mass storage of images, permanent storage of at least 10,000 images
Cine loop	Playback function
Biopsy	Biopsy guidance (optional)
Settings	Date, time, patient name, device name, user name, etc., user-defined annotations, arrow and body markings
Software	Software packets for abdomen, obstetrics, gynecology, urology, cardiology, fetal heartbeat, orthopedic surgery, structures near the surface, direct creation of diagnosis report based on measurement results
Power consumption	240 VA
	2.0 11.
Continuous operation	≥8 hours
Continuous operation Dimensions	



PERFORMANCE FEATURES

The KUT-301 is a fully digital color ultrasound system with connectors for three transducers. The KUT-301 uses patented, fully digital technology to deliver high-resolution images with the highest degree of diagnostic accuracy. The user-friendly keyboard and efficient workflow facilitate daily operation for the user. The KUT-301 is equipped with the latest innovative ultrasound technology. It offers varous storage options such as an internal hard drive, CD-RW and USB stick and enables data transfer to the HIS using DICOM 3.0.

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Kalamed Medical Systems

POLYMED GROUP SUISSE



KUT-401

Color Doppler Ultrasound System

Excellent Image Processing Technology

- 3D/4Dimaging
- ePure
- eFCI
- eSCI
- eSpeed
- eView
- THI

In today's clinical environment, you need a machine combined with performance and versatility to help you make more for the patients.

From normal diagnosis and report analysis to video and report record, the patients need more in every stage of their visits than ever before. Kalamed makes all the capabilities needed for growing practices to help you expand your clinical applications.

Superior Image Quality

- Superior B-mode Imaging
- ePure Unique Speckle Reduction Technology
- eSpeed One Key Optimization
- eFO Frequency Compounding Image
- eSCSpatial Compounding Image
- · eView Panoramic Imaging
- Self-adaptive Color Artifact Clearance
- · Virtual Trapezoidal Imaging
- Auto Trace Calculation PW
- 2D with Harmonic Imaging
- · Pulsed-Wave Doppler
- Power Doppler Imaging
- Continuous Wave (Upgradable)
- Multi-Beam Former
- 3D Imaging with Multilane Views
- 4D Image



With the advanced features of KUT-401, you could have more confidence to replace your old ultrasound systems and expand your offerings with an additional system, without limit of constrained budget to be more distinguishing in your area.

Improved Productivity

- · One-buttonImage Optimization
- Menu Optimization
- · Comprehensive Clinical Applications
- Patient Information Management System
- · Efficient Workflow to Perform Better and Quicker
- · Shortcut Keys for Workflow Facilities
- · Easy Data Recording
- · Diagnostic Report Generated Automatically
- USB Ports
- DICOM 3.0
- DVD-RW

More Comfortable & Convenient

- Adjustable High-resolution LCD Monitor
- · Fully Articulated Arm
- · Highly Interactive Control Layout
- · The Footrest for Stress Relieving
- · Integrated Handle for Easy Moving
- · Four Probe Connectors for Multi-applications



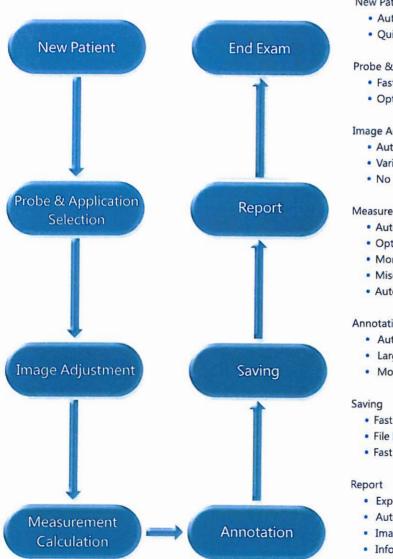
We try to make you feel comfortable in every stage of diagnosing, whether sitting or standing, you can make the relevant controls right at your fingertips to experience ease and simple, stress-free operation.

With the fully articulated arm, you are able to move the monitor to facilitate suitable working postures and reduce repetitive stress injuries.



The KUT-401 was designed with optimal workflow to help you focus on your patients. With our intelligent and easy learning user interface, you could learn all the advanced imaging and measurement technologies in a fast way.

In addition, the automatic image optimization technology can help you reduce exam time and minimize keystrokes, freeing you from repetitive tasks.



New Patient

- · Automatic ID Generated
- · Quick Loading for Patients' History Record

Probe & Application Selection

- · Fast Probe Switch (without power off) Automatic
- · Optimization for Clinical Application

Image Adjustment

- · Automatic Saving for Preset
- Various Parameters for Image Adjustment
- · No Limitation for Local Zoom

Measurement & Calculation

- Automatic Menu Switch
- Optimized Items for Measurement & Calculation
- More Displayed Measurement Results: 16
- Misoperation Cancel
- Automatic Spectral Calculation

Annotation

- Automatic Body Mark Selection
- · Large Annotation Database
- Moveable Annotation
- Fast Save 64
- · File Name Automatically Generated
- · Fast Review for Current Patients
- Expert Database
- · Automatically Generated Graph
- Image Adding for Report Patient
- Information
- · Fast Search for Daily/Monthly/All Patients

Clinical Applications

Gynecology

Obstetric

- Early Pregnancy
- Middle-later Pregnancy
- Fetus Cardiology

Vascular

- Periphery Artery
- Periphery Vein
- Carotid
- Jugular

Abdomen

- Adult Abdomen
- Adult Liver
- Adult Gallbladder
- Adult Spleen
- Kid Abdomen

Urology

- Kidney Ureter
- Bladder Prostate

Cardiology

- Adult Cardiology
- Kid Cardiology

Small parts

- Mammary Glands
- Thyroid
- Eye ball

Orthopedics

- Hip Joint
- Meniscus
- Joint Cavity
- Spine

Transcranial Doppler

Abdomen



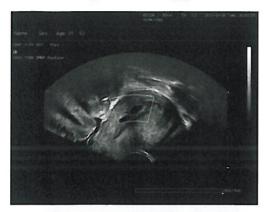


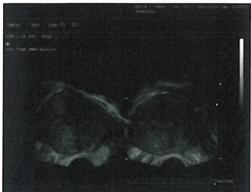
Obstetric



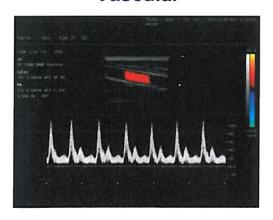


Gynecology





Vascular



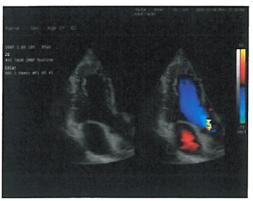


Image Modes

M-mode B-

mode

Anatomic M

CFM (Color Flow Imaging)

PW (Pulsed Wave Doppler)

Duplex for Simultaneous

- B+PW
- B+CFM
- · B+PDI
- B+CFM Comparison
- B+PDI Comparison
- B+ Direction PDI
- B+3D
- B+4D
- B+CW

Triplex Mode

- B+CFM+PW
- B+PDI+PW

Quad Mode

B+B+B+B

B/CFM+B/CFM+B/CFM+B/CFM

B/PDI+B/PDI B/PDI+B/PDI

	1	
	Gynecology Obstetrics Pediatric Abdominal Vascular Urology	KPC-406 Convexprobe 2,0 - 6,0 MHz 128 elements
And the second	Small parts Breast VasculaR Orthopedics MSK	KPL-410 Linearprobe 7,5 - 12,0 MHhz 128 elements
	Gynecology Obstetric Urology Caphalic	KTV-260 Transvaginalprobe 5,0 - 9,0 MHz 128 elements
Salar	Abdominal Pediatric Cephalic Transcranial Cardiac	KMC-450 Microconvex probe 2,0 - 5,0 MHz 96 elements
	Abdominal Pediatric Cephalic Transcranial Cardiac	KMC-480 Microconvex probe 5,0 - 8,0 MHz 80 elements
San	Cardiac	KPA-410 Phased array probe 2.0-5.0 MHz
	Fetal face Fetal spine	KP4-401 4D-Sonde für KUT-401

Other Ultrasound products from Kalamed

KUP-101+	KUP-111	KUP-211	KUP-301
	ana III		
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PROFESSIONAL PATIENT MONITORING DOES NOT NEED TO BE EXPENSIVE





LIGHT WEIGHT VITAL SIGN PATIENT MONITOR

- Preconfigured screens
- Very easy operation
- HR derived from ECG and SPO₂
- ⊕ 5 channel waveform display

- ⊕ ECG, RESP, SPO₂, NIBP, TEMP, PR
- (b) Optional connection to central monitor software
- (b) Optional printer can be connected at the USB port
- (All sensors included in price
- (Handle for bed mounting included







SIDE VIEW - RIGHT

SIDE VIEW - LEFT

PERFORMANCE FEATURES

HR range

Optional Configuration

The KMO-101 patient monitor is ideal for monitoring vital signs like ECG, SPO₂, NIBP, hearth rate, respiratory rate and temperature. Optional sensors for paediatric and neonatal application are available. Mounting holes to attach to wall mounts or poles. Up to 1,000 hours of all trends and tables can be recorded and saved. All curves can be saved and displayed for up to 60 hours. 2,000 groups of arrhythmia events data with corresponding HR, TEMP, SPO₂ and Resp value. Using the integrated Li-ion battery, the device can be operated without a mains connection. The compact design also enables portable operation of the device.

Input dynamic range $\pm 0.4 \,\text{mVp} \sim \pm 5 \,\text{mVp}$

20 ~ 300 bpm

TECHN	IICAL SPECIFICAT	IONS
	Technique	Oscillometric
NIBP	Measurement range	Systolic pressure: Adult: 40 ~ 260 mmHg Pediatric: 40 ~ 230 mmHg Neonate: 40 ~ 130 mmHg Diastolic pressure: Adult: 20 ~ 200 mmHg Pediatric: 20 ~ 160 mmHg Neonate: 20 ~ 100 mmHg Mean arterial pressure: Adult: 26 ~ 220 mmHg Pediatric: 26 ~ 183 mmHg Neonate: 26 ~ 110 mmHg
	Accuracy	Average deviation $\leq \pm 5 \text{mmHg}$ standard deviation $\leq \pm 8 \text{mmHg}$
	Mode	Manual, automatic
	Measuring range	25.0°C ~ 45.0°C
TEMP	Accuracy	±0.2°C
ICIVIP	Responding time	≤ 150 s
	Quick temp (opt.)	< 20 s (skin), < 2 s (ear)
	Transducer	dual-wave length LED
	SPO₂ range	35% ~ 100%
SPO ₂	Capability	0.4% ~ 5%
-	SPO ₂ Accuracy	Arms less than 3% for SPO ₂ range from 70% to 100%
	PR range	30 ~ 240 bpm
	PR Accuracy	± 2 bpm or ± 2%, whichever is greater

	Accuracy	± 1 % or ± 2 bmp, whichever is greater
	HR alarm delay time	≤ 10 s
	Sensitivity selection	x1/2, x1, x2 tolerance: ≤ 5%
	Sweeping speed	12.5 mm/s, 25 mm/s, 50 mm/s, tolerance: ≤ 10%
ECG	ECG noise level	≤30µVP-P
ECG	ECG input loop current	≤0.1µA
	Input impedance	≥5 MΩ
	Common-mode rejection ratio	≥89 dB
	Time constant	Monitoring mode ≥ 0.3 s Diagnostic mode ≥ 3.2 s
	Frequency response	Monitoring mode 0.5 ~ 40 Hz Diagnostic mode 0.05 ~ 75 Hz
RESP	Measuring range	0 ~ 120 rpm
KESP	Accuracy	± 5% or ± 2 rpm, whichever is greater
OTHE	R TECHNICAL SPE	CIFICATIONS
	Power supply	100 ~ 240 VAC, 50/60 Hz
	Li-ion battery	14.8 V 2200 mAh
	Display	7 inches TFT colour LCD with 800 x 480 pixel
	Alarming	Audible-visual alarm
	Communication	Serial / Ethernet
Standard Configuration		ECG, RESP, SPO ₂ , NIBP, TEMP, PR

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CO2 Nellcor SPO2, Trolley,

Wall-mount, Sun Tech NIBP, Central monitoring system, External printer



PROFESSIONAL PATIENT MONITORING DOES NOT NEED TO BE EXPENSIVE





AFFORDABLE 12,1" VITAL SIGN MONITOR

- 12,1" high resolution colour TFT display
- → 5 Channel waveform display
- ECG, Resp, SPO₂, NIBP, 2 Temp, PR
 Optional IBP-EtCO₂
- Arrhythmia & ST segment analysis
- Up to 800 groups parameter data & 24 hr. ECG waveform storage and recall
- 480 hrs. graphic and tabular trends for all parameter

- Adult/paediatric/neonatal measuring mode and accessories
- Protection against interference from defibrillator and electrosurgical knifes
- (b) Visual and audible alarms with easy view Alarm light
- networking capability
- built-in rechargeable battery
- Optional built in printer
- 4 Configurations: Basic, including Printer, including touch screen, including touch screen and printer



SIDE VIEW - RIGHT

SIDE VIEW - LEFT

TECHNICAL SPECIFICATIONS

	Measuring method	Automatic measurement by intelligent oscillating method
	Cuff inflation time	<30 seconds (typical adult cuff)
	Initial cuff inflation Pressure	Adult and infant mode: 300 mmHg Neonate mode: 120 mmHg
NIBP	Measuring range	Systolic pressure: Adult and infant: 25 ~ 265 mmHg Neonate: 25 ~ 135 mmHg Diastolic pressure: Adult and infant: 12 ~ 220 mmHg Neonate: 12 ~ 110 mmHg Mean arterial pressure: Adult and infant: 18 ~ 245 mmHg Neonate: 18 ~ 120 mmHg
	Accuracy	Systolic ± 10 % Diastolic ± 10 % MAP ± 10 %
	Mode	Manual, Auto, STAT
	Automatic measuring	1 ~ 240 min
	Intervals	<10 s
TEMP	Measuring range	15,0 °C ~ 45,0 °C
	Accuracy	± 0.2°C
	Transducer	dual-wave length LED
	SPO ₂ range	35% ~ 100%
	Capability	0,4 % ~ 5 %
SPO ₂		90% ~ 99%, ± 2%
& Pulse Rate Monitoring	SPO, Accuracy	70 % ~ 99 %, ± 2 % 40 % ~ 99 %, ± 2 %
	PR range	30 ~ 250 bpm

PERFORMANCE FEATURES

The KMO-121 patient monitor is ideal for monitoring vital signs such as ECG, SPO2, none invasive blood pressure, respiratory rate and temperature. Optionally Invasive blood pressure and ETCO₂ (end Tidal CO₂) can be measured. Sensors for Adults, Infants and Neonates are available making the KMO-121 a flexible multiuse instrument. With 12,1" the KMO-121 has a large and crisp colour TFT LCD display allowing easy view of the data. 480 hours of trends in graphic and tabular form can be recorded and displayed.

ECG	HR Measurement	± 0.4 mVp ~ ± 3 mVp
	HR range	20 ~ 250 bpm
	Accuracy	± 1 % or ± 2 bmp, whichever is greater
	HR alarm delay time	≤ 12s
	Sensitivity selection	Auto, x1/2, x1, x2, x4 tolarance: ≤5%
	Sweeping speed	12,5 mm/s, 25 mm/s, 50 mm/s, tolarance: ≤10 %
	ECG noise level	≤ 30µVP-P
	ECG input loop current	≤ 0,1µA
	Input impedance	≥ 5 MΩ
	Common-mode rejection ratio	≥ 80 dB
	Time constant	Monitoring mode ≥ 0,3 s Diagnostic mode ≥ 3,2s
	Frequency response	Monitoring mode 0,5 ~ 25Hz Diagnostic mode 0,05 ~ 75Hz
RESP	Monitoring range	0 ~ 120 rpm
	Accuracy	± 10 %
	Alarm range	$0 \sim 100 \text{ bpm}$ Alarm tolerance: $\pm 10 \%$

OTHER TECHNICAL SPECIFICATIONS

	Power supply	100 ~ 250 VAC, 50 /60 Hz
	Power consumption	<80 VA
	Display mode	12" Color LCD, Touchscreen (Option)
	Alarming mode	Audible-visual alarm
	Networking por	Ethernet port
Standard Configuration		ECG, RESP, SPO _{2,} NIBP, 2-TEMP, PR
Option	ns	2xIBP, EtCO2, Nellcor SPO2, printer

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PR Accuracy

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±2 bpm

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AFFORDABLE SURGICAL CO₂ LASER SYSTEM SUITABLE FOR EVERY MEDICAL OFFICE



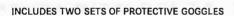






INCLUDES TWO HAND PIECES







SAFETY FOOT SWITCH



REFLECTOR ARM WITH 7 ARTIC-**ULATIONS AND HAND PIECE**

Type of laser	CO₂ laser
Laser tube	Closed CO₂ laser
Wavelength	10,600 nm
Type of operation	Continuous Super pulse
Pulse mode	Continuous (cw) single (s) pulsed (pw)
Output on tissue	Continuous 1 - 25 W. super pulse: 0.5 - 5 W
Spot size	100-nm lens: 1 mm 50-nm lens: 0.2 mm
Time range	0.1 - 1.00 s on/off in adjustable increments
Target beam	655 nm, adjustable intensity
Fiber optics	Reflector arm with 7 articulations and hand piece
Power supply	220 - 240 V ~, 50/60 Hz
Cooling system	Water cooling with closed circuit
Dimensions	400 mm x 460 mm x 960 mm (W x D x H)
Weight	45kg

PERFORMANCE FEATURES

The KLC-101 CO₂ laser system has proven its efficacy for treatment in the areas of general surgery, dermatology, plastic surgery, urology, dental medicine, obstetrics and gynecology. It has gained acceptance as the preferred system for a variety of methods. You will come to value our multipurpose system in your daily work and your patients will be more than satisfied with the treatment result.

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