Kalamed ECG comparison

03/01/2018

Kalamed Type	KES-301	KES-601T	KES-121T	KES-121L
Keyboard	no	no	no	yes
Alphanumeric Data	yes	yes	yes	yes
Touch screen	no	yes	yes	yes
interpretation operating modes	option	option	yes AUTO, MAN, RR ANA.	yes
print Channels	Wide paper: 3ch, 3ch+, 1ch+ Narrow paper: 1ch, 1ch+, 3ch	3ch ,3ch+, 6ch, 3ch+++,Template,Arrhythmia	12x1,6Tx2, 6x2+1rhy, 6x2+1rhy+P, 3x4+3rhy, 3x4+1rhy+P and Average template +P; Arrhythmia	12x1, 6Tx2, 6x2+1rhy, 6x2+1rhy+P, 3x4+3rhy, 3x4+1rhy+P and Average template +P; Arrhythmia
Rhythm leads	yes	yes	yes	yes
Display: Channels	12	12	12	12
recording width in mm	53	104	210 mm A4	210 mm A4
Paper in mm	63	112	216	216
Roll Paper	yes	yes	yes	yes
Z_Fold Paper	no	no	no	yes
roll paper grid printed:	outside	outside	outside	outside
paper speed (mm/sec)	5,6.25,10,12.5,25,50	5,6.25,10,12.5,25,50	5,6.25,10,12.5,25,50	5,6.25,10,12.5,25,50
printing resolution	± 3%	± 3%	± 3%	± 3%
printer resolution	8dot/mm	8dot/mm	8dot/mm	8dot/mm
pacemaker detection (mark on recording)	yes	yes	yes	yes
print preview	no	yes	yes	yes
waveform recall	no	yes	yes	yes
sensitivity mm/mV	Auto,2.5,5,10,20,40	Auto,2.5,5,10,20,40	Auto,2.5,5,10,20,40	Auto,2.5,5,10,20,40
sensitivity accuracy	± 5%	± 5%	± 5%	± 5%
HR Recognition Range	30BPM~215BPM	30BPM~250BPM	30BPM~250BPM	30BPM~250BPM
HR Recognition Accuracy	±1BPM	±1BPM	±1BPM	±1BPM
HR range	30BPM~215BPM	0~250 set manually	0~250 set manually	0~250 set manually
electro cautery protection	yes	yes	yes	yes
defibrillator protection	yes	yes	yes	yes
patient leakage current	<10uA	<10uA	<10uA	<10uA
Input circuit current	≤ 50nA	≤ 50nA	≤ 50nA	≤ 50nA
CMRR	⩾100db	≥120db	≥120db	≥120db
frequency response	0.05Hz ~ 165Hz	0.05Hz ~ 165Hz	0.05Hz ~ 165Hz	0.05Hz ~ 165Hz
time constant	≥ 3.2 s	≥ 3.2 s	≥ 3.2 s	≥ 3.2 s
Input Impedance	> 50MΩ	> 50MΩ	> 50MΩ	> 50MΩ
Input Voltage range	± 5 mVpp	± 5 mVpp	± 5 mVpp	± 5 mVpp
Calibration voltage	1mv ± 2%	1mv ± 3%	1mv ± 2%	1mv ± 2%
Depolarization voltage	± 500mV	± 500mV	± 700mV	± 700mV
Noise	< 15 µVp-p	< 15 µVp-p	< 15 µVp-p	< 15 µVp-p
Dielectric Strength	4000 V rms	4000 V rms	4000 V rms	4000 V rms
Alarm when outside limit	on LCD/lead-off beeper	on LCD/lead-off beeper	on LCD/lead-off beeper	on LCD/lead-off beeper
Alarm for		lead off, no paper,HR high, no Batt, low batt		
EMG filter	25/45 Hz	25/35/45Hz	25/35/45Hz	25/35/45Hz
ADS filter	yes (on - off)	yes (on - off)	yes (on - off)	yes (on - off)
Hum filter	yes (on - off)	yes (on - off)	yes (on - off)	yes (on - off)
High Cut Filter	75Hz, 90Hz, 100Hz, 165Hz			
Alarms	lead off, no paper, HR low+high, Battery		lead off, no paper, HR low+high, Battery	
Extended printing for arrhythmia waveforms			60 sec	
Patient Data	ID,sex,age,name, height, weight,BP, hospital name		ID, name, sex, age, height, weight,BP, Drugs,race,Bed	
Patient Data displayed on screen	sex,age	ID,sex,age,name	ID,sex,age,height,weight,BP ,Name, HR,QRS sign, freeze	ID,sex,age,height,weight,BP ,Name, HR, QRS sign, no paper
Patient Data on recordings			ID, name, sex, age, height, weight,BP, Drugs,race,Bed	
Child - paediatric - Adult. Based on Minnesota code	no age = default = adult. ≤ 5 = Neonate. 6 ≤ to < 18 = Child. ≥ 18 = Adult.	no age = default = adult. ≤ 5 = Neonate. 6 ≤ to < 18 = Child. ≥ 18 = Adult.	no age = default = adult. ≤ 5 = Neonate. 6 ≤ to < 18 = Child. ≥ 18 = Adult.	no age = default = adult. ≤ 5 = Neonate. 6 ≤ to < 18 = Child. ≥ 18 = Adult.
Leads 12 standard	yes	yes	yes	yes
Leads Cabrera	yes	yes	yes	yes
Frank system (Chest electrodes connecting)	yes	yes	yes	yes
Wilson system (Chest electrodes connecting)	yes	yes	yes	yes
Eindhoven system (Chest electrodes connecting)	no	no	no	no
Goldberger system (Chest electrodes connecting)	no	no	no	no
R-R Interval	yes	60 or 180 sec	60 or 180 sec	60 or 180 sec
No of Analysis results	128	120	120	120
screen	3.8" mono LCD	5.7" colour	7" colour	12.1" colour LCD
screen resolution pixels	320x240	640x480	800x480	800x600
internal Memory	yes	yes	yes	yes
internal Memory capacity	12 ECG	180 ECG	180 ECG	2000 ECG
external Memory	option	option	option	option
external Memory type	SD card	USB	USB	USB
external Memory storage	250 on SD	> 10'000 on USB	> 10'000 on USB	> 10'000 on USB
PC software	option	option	option	option
real time signal on ext. Mon	no	no	no	no
external Printer	no	option, only HP DJ1000 Inkjet or HP M401D Laser.	option, only HP DJ1000 Inkjet or HP M401D Laser.	option, only HP DJ1000 Inkjet or HP M401D Laser.
Interface of external Printer	no	option	option	option
external VGA Monitor	no	no	no	no
ext. barcode reader	no	yes	yes	yes
data transfer to PC via LAN 10Base-T	RS-232,USB(option)	LAN/RS232	LAN/RS232	LAN/RS232
xml		The ECG machines can't directly export these formats to a PC. However it can be done through the optional PCECG-500 PC software. In this case a Dongle is necessary.		
HL-7				
Dicom				
work list	no	no	no	no
modem	no	no	no	no
bi-directional	no	no	no	no
WLAN	no	no	no	no
Bluetooth	no	no	no	no
SD card	option internal	no	no	yes
USB	option	yes	yes	yes
export PDF + SCP + BMP + xml files directly to USB drive	no	yes	yes	yes
size (W x D x H) in mm	345x300x80	345x300x80	338x280x85	420×324×112
weight without Battery	2.5 kg	2.5 kg	3.5 kg	5 kg
Power	100-120 V/220V-240V	100-240 V	100-240 V	100-240 V
Power consumption	75VA	75VA	75VA	90VA
Battery	yes	yes	yes	yes
Battery incl. or option	incl	incl	incl	incl
Battery type	Lithium	Lithium	Lithium	Lithium
Battery live	2hr	2hr	2hr	2hr
Battery charge time	6hr	6hr	8hr	8hr
Battery capacity	2'000 mAh		4400 mAh	4400 mAh
external Power rated	12 Volt	12 Volt	19 Volt	19 Volt
external Power rated	2.5 Amp	2.5 Amp	3.5 Amp	3.5 Amp
Temperature storage	-10°C~+40°C	-10°C~+40°C	-10°C~+40°C	-10°C~+40°C
Temperature working	+5°C~+40°C	+5°C~+40°C	+5°C~+40°C	+5°C~+40°C
Relative humidity working	25%~85%	25%~85%	25%~85%	25%~85%
Atmospheric pressure	700hPa - 1060hPa	700hPa - 1060hPa	700hPa - 1060hPa	700hPa - 1060hPa
A/D converter	12 bit	24 bit	24 bit	24 bit
Sampling rate	800Hz	1000Hz	1000Hz	1000Hz
Interpretation	option	option	incl	incl
Stress options	no	no	no	yes
Spirometer option	no	no	no	no
Holter analysis	no	no	no	no
Paediatric cable and electrodes	local option	local option	local option	local option
Neonatal cable and electrodes	local option	local option	local option	local option
built in Languages	Eng,Ger,Fre,Ita,Spa	Eng,Ger,Fre,Ita,Spa	Eng,Ger,Fre,Ita,Spa	Eng,Ger,Fre,Ita,Spa
Manual in the following languages	Eng, Ger	Eng, Ger	Eng, Ger	Eng, Ger
quick guide	no	no	no	no
Comments				
comments all	ECG cable length 3 M			

HPRA Wholesalers authorisation No. W00426/00001

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