



ASPEL

ASCARD GREEN

v.05.101

ECG signals	<ul style="list-style-type: none"> - recording of standard 12 ECG leads - presentation of the curves in the standard layout or Cabrera layout
Operating mode	<ul style="list-style-type: none"> - manual, automatic
Printing	<ul style="list-style-type: none"> - ECG printout in 1, 3, 6 or 12 channel modes - thickness of the printing ECG waveforms line to choose from: normal or bold - printout on the ECG machine printer - printout of the automatic ECG recording from internal memory in groups of 1, 3, 6, or 12 leads - printout of the analysis, interpretation of automatic ECG examination - attaching name of the patient to the ECG printout
Pacemaker detection	<ul style="list-style-type: none"> - detection and presentation of stimulating pulses - acoustic signalling of detected beats
Functionality	<ul style="list-style-type: none"> - saving the ECG signal simultaneously from all the 12 leads during the automatic recording, together with the date and time of the examination, filter settings, examination recording time and optional, patient's data, in the internal memory - continuous heart rate (HR) measurement and display - automatic detection of QRS complex

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Functionality	<ul style="list-style-type: none"> - display of 1, 3, 6 or 12 lead ECG recordings - graphical menu displayed on the screen of easy operation using keyboard - automatic analysis and interpretation in compliance with EN 60601-2-25 (CSE data) - interpretation dependable on age and sex of a patient - adapted to direct operation on an open heart - detection of electrode detachment, independent for each channel - selectable channel to detect heart rate - multilingual menu - protection against defibrillation pulse - automatic examination with the printout of patient data and clinic data - battery power saving functions
Display	<ul style="list-style-type: none"> - LCD graphic screen 240x128 - diagonal screen size 4"
Keyboard	<ul style="list-style-type: none"> - membrane alphanumeric keyboard with functional keys
ECG signals	<ul style="list-style-type: none"> - 12 standard leads: I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6 - 3 Nehba leads: D, A, I
Sensitivity	<ul style="list-style-type: none"> - 2.5/5/10/20 mm/mV (+/- 5%)
Recording Speed	<ul style="list-style-type: none"> - 5/6,25/10/12,5/25/50 mm/s (+/- 5%)
Filters	<ul style="list-style-type: none"> - contour line: 0.15Hz, 0.45Hz, 0.75Hz, 1.5Hz - power line interference: 50Hz, 60Hz - muscle interference: 25Hz, 35Hz, 45Hz
Paper	<ul style="list-style-type: none"> - thermo sensitive, dust free - wide 58mm
Memory	<ul style="list-style-type: none"> - memory of the last automatic examinations with a limit from 5 to 1000
Sampling frequency	<ul style="list-style-type: none"> - 8000 samples/s per channel (uniform sampling)
A/D conversion resolution	<ul style="list-style-type: none"> - 12 bits
Skew between channels	<ul style="list-style-type: none"> - <100µs
Amplitude of quantization	<ul style="list-style-type: none"> - 2,55 µV/LSB (+/- 5%)
ECG signal scope	<ul style="list-style-type: none"> - 10 mV (Vp-p)

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Bandwith	- 0,05-150Hz (with filters off) according EN 60601-2-25
Power supply	- external: plug-in power connector M12-15, AC100-240V, 47-63Hz - internal: battery 7.2V/2.15Ah, up to 130 automatic examinations in battery mode
Ports	- USB 2.0, Micro B slot
Safety norms	- protection against electric shock (EN 60601-1): class II device - applied part (EN 60601-1), CF type part resistant to defibrillation - medical device class: IIa (rule10) - IP protection class: EN 60601-1, EN 60601-2-25 - electromagnetic compatibility: EN 60601-1-2
Dimensions	- (LxWxH) 220x153x55mm
Weight	- <0.6kg
Compatibility	- PC - CardioTEKA software
Standard equipment	- patient cable - limb electrodes - precordial electrodes - ECG gel - 250g - ECG paper R-B1 - 1 reel - Medical power connector M12-15
Optional equipment	- medical equipment bag - additional ECG paper - trolley WB5 - trolley W30W - CardioTEKA software
Certifications	- CE 0197 - EN ISO 13485 - MDD 93/42/EEC - CFS