

EP-LU30001 Electrocardiograph LUMED[®] EUROECG 3view



NB the product is subject to changes without prior notice.

Description

EUROECG 3view is a high-resolution digital electrocardiograph. It records 12 synchronous leads and print them on 80mm paper. Several print layouts are available.

EUROECG 3view colour LCD display shows the ECG in real-time. Moreover, the stored ECGs can be re-open and displayed on screen.

An internal memory is available, to store up to 10.000 ECGs.

EUROECG 3view has a built-in Automatic ECG Measurement and Interpretation algorithm.

These are the main features of EUROECG 3view :

- Colour graphic TFT LCD display, foldable
- Powered by mains or internal battery (included)
- Automatic ECG Measurement and Interpretation
- Automatic Screening Mode
- Storage up to 10.000 ECGs in several format: DICOM, PDF, XML, JPG, BMP
- DICOM[™] data export
- DICOM[™] Modality Worklist
- High-resolution signal
- Detection and processing of Pacemaker's spikes
- Use of external devices, like as USB keyboard, PCL-6 printer or Bar-code reader
- Direct connection to the PC network
- PC- ECG Software (optional)



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Technical Data

Leads set	12 Standard, Cabrera, Frank, Right Chest, Posterior Chest, custom
Defibrillation	A protection is present based on both internal components and original patient cable.
Acquisition	Simultaneous acquisition of 12 leads, interval ± 5 mVpp, time constant $\geq 3.2s$
Bandwidth	0.05Hz-250Hz (-3dB)
Input Impedance	Impedance ≥ 50 M Ω , Current ± 0.05 μ A
Polarization	± 400 mV
CMRR	98 dB
Resolution	12 bit
Sampling	ECG: 16.000 samp./sec
Pacemaker	Sampling: 10.000 samp./sec Detection $\geq \pm 2$ mV $\geq \pm 0.1$ msec with automatic filtering
Sensitivity	2.5, 5, 10, 20, 40 mm/mV
Speed	5, 6.25, 10, 12.5, 25, 50 mm/sec
Operating Mode	Automatic (real-time or Pre-sample), Manual, Rhythm, Programmed, Trigger, Screening
Internal printer	Thermal, resolution up to 32 dot/mm; thermal paperA4/Letter both Roll and Z-fold
Print layout (built-in printer)	<ul style="list-style-type: none"> . Automatic: 3x4, 3x4+1Rhythm. . Manual: 1, 2 or 3 leads . Rhythm: 1 or 3 user-selected leads x 60 " with RR report . Programmed: like Automatic, frequency 1-60 mins, duration 1-60 mins . Trigger: like Automatic but the page is printed only in case of event (Arrythmia etc) . Screening: like Automatic, with short evaluation of the current ECG
External printer	<ul style="list-style-type: none"> . Extenal USB, native PCL-6 . 12x1, 6x2, 6x2+1R, 3x4, 3x4+1R, 3x4+3R
Filters	<ul style="list-style-type: none"> . EMG 25/30/40Hz, Mains Interferences 50 or 60Hz . Base-line correction: 0.05, 0.16, 0.25, 0.32, 0.5, 0.67 Hz High-pass . Artefacts: 75, 100, 150 Hz Low-pass
Display	<ul style="list-style-type: none"> . Size and resolution: 10", 800x480 pixel, 220x135 mm . Type: TFT LCD graphic colour . Ergonomy: foldable 0°-90° . Available data: 1 to 12 ECG waveforms, patient data, date\time, operating mode, battery status, Heart-Rate (30-300), ECG parameters (filters, speed, amplitude etc), contact (each and every electrode or lead), paper status, memory status
Keyboard	Extended alphanumeric, with function keys and dedicated rapid keys
Alarms	Contact (each and every electrode\lead), no paper, paper door open, battery level
Self diagnostics	No paper, electrode\skin contact quality, auto tests: display, keyboard, memory, battery, ECG acquisition, Ethernet board, thermal printer. Operations summary.
ECG Archive	Approx. 10.000 ECGs
ECG format	DICOM, PDF, XML, JPG, BMP
DICOM™	<ul style="list-style-type: none"> . 12-Leads ECG Storage, General Waveform ECG Storage, Encapsulated PDF Storage. . Modality Worklist.
I/O Interfaces	Ethernet board, USB Master, USB Slave, SD card
External USB devices	Barcode scanner, PCL-6 printer, keyboard (these parts are optional)
Power supply	<ul style="list-style-type: none"> . 100-240V, 50/60Hz, 30-100VA . Internal Li-IO rechargeable battery, autonomy ≥ 500 ECGs or 5 hours (no printing)
Size & Weight	310x244x65mm, approx- 2.25 kg battery included
Environmental conditions	Temperature: usage +5°C / +40°C (storage & shipment -20°C / +50°C). Rel. Humidity: usage 25% / 80% (storage & shipment 25%-95% not condensing). Pressure: 700 hPa / 1060 hPa
Safety	IEC Class I Type CF
Standard accessories	4mm Banana IEC patient cable, reusable chest and limbs electrodes, gel ECG spray, thermal paper (roll and Z-fold), power cord, internal rechargeable battery, user manual.