



**Technical Specification No
Automatic defibrillator with monitor:**

- ✓ **Manufacturer:**CU Medical Systems
- ✓ **Country of Origin :** South Korea
- ✓ **Model:** Lifegain CU HD 1 VH1
- ✓ **Certification** ISO, CE

Technical Specification	Yes	No	Remarks
Configuration <ul style="list-style-type: none"> ☐ Defibrillator with Li Ion battery. ☐ Kit of reusable paddles, including paediatric paddles– 1 set. ☐ Kit of single use paddles, including adapter for single use paddles. ☐ Kit of cables ECG 3 Derivations. ☐ Kit of cables ECG 5 Derivations ☐ Sp O2 module and accessories ☐ External pacemaker module ☐ AED mode. ☐ Kit of 15 electrodes ECG of single use. ☐ Built-in thermal printer. ☐ Cable with power supply at the network and at 12 V. ☐ Power supply cable 12 V with connector. ☐ Card SD 2 Gb minim 	X X X X X X X X X X X X X		<ul style="list-style-type: none"> ☐ Defibrillator Lifegain CU-HD VH1 – 1 piece ☐ adult reusable padle – 1 set ☐ pediatric reusable padle – 1 set ☐ single use adult pads , adaptor included - 1 set ☐ 3 lead ECG ☐ 5 lead ECG – 1 set ☐ SpO2 module set (MP100)- 1 piece ☐ External pacer - 1 ☐ AED text vocal module ☐ ECG single use electrodes – 1 set, 15 pieces ☐ Printer built in - 1 piece ☐ power cord and SMPS AC – 1 piece ☐ LI-ion internal battery - 1 piece ☐ Gel -1 piece ☐ Sd card and SD reader – 1 piece ☐ english/russian manual - 1 piece ☐ car lighter jack – 1 piece ☐ carrying case – 1 piece
Technical Specification General considerations: <ul style="list-style-type: none"> - Automatic defibrillator with monitor, robust construction with easy to clean surfaces, easy to manipulate, use and carry; - Equipped with alarm systems minimum for: <ul style="list-style-type: none"> - electrodes detachment; 	X X X		

<ul style="list-style-type: none"> - asystole; - tachycardia; - bradycardia; - fibrillation; - with digital adjusting systems for alarm levels. 	X		
- Impermeable bag with inside compartments and adjustable strap.	X		
- Vibration according to EN 1789.	X		
Resistant to the impact EN 1789	X		
Technical Specification	Yes	No	Remarks
Technical description:			
- to possess a built-in display monitor, HD colour of minimum 7 inches;	X		☐ Leaflet, User Manual
- to allow the display and supervision: ECG route, Pacemaker detection, AED mode, SpO2values, non-invasive blood pressure, battery status, alarm status, day, date, counting and recording of each shock;	X		☐ Leaflet, User Manual
- to possess a fast access and safe menu for options and the shock energy;	X		☐ Leaflet, User Manual
- to possess one terminal designed for testing the functionality of paddles;	X		☐ Leaflet, User Manual
- to possess in-built Li-Ion rechargeable battery;	X		☐ Leaflet, User Manual
- the battery has to provide sufficient power for the administration of minimum 150 shocks of 200J per one charge or not less than 4 hours of ECG continuous monitoring;	X		☐ Leaflet, User Manual
- the battery life-time is minimum 4 years;	X		☐ Leaflet, User Manual
- recharging time is maximum 4 hours;	X		☐ Leaflet, User Manual
- to possess sound and visual alarm systems regarding the battery discharge;	X		☐ Leaflet, User Manual
- the system will be able to work both with reusable paddles as well as with paddles of single use, the paddles must be interchangeable;	X		☐ Leaflet, User Manual
- the system has to recognise automatically the paddles type;	X		☐ Leaflet, User Manual
- the system has to recognise and display on the screen the correct position of paddles on the chest;	X		☐ Leaflet, User Manual
- the system has to possess an optional hardware option and also the invasive paddles have also to be available for being used;	X		☐ Leaflet, User Manual
- the system has to provide options for: AED	X		☐ Leaflet, User Manual

included , SpO2 included , NIBP mode optional - the system has to be able to function as a external peacemaker option included ; - the printing will be automatic or manual on 1 channel; - the width of the paper is 48 mm or other standard dimensions; - the printing speed is 25,50 mm/sec.	X		<input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual
Technical Specification	Yes	No	Remarks
ECG monitoring: - 3/5 channel derivatives; - the catch of ECG signal to be done through the defibrillation paddles, single use electrodes or reusable electrodes; - recognition of the peacemaker has to be automatic; - heart frequency range from 30 to 300 bpm; - to possess alarm systems for: electrode detachment, asystole, tachycardia, bradycardia, fibrillation; recording: internal memory of 2 GB minimum	X X X X X X		<input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual
Technical parameters of defibrillation: - Defibrillation – of type BTE (biphasic truncated exponential waveform); - Shock energy – automatically selected in a standard way from 2 to 200J; - Recharging time for repeated shock administration maximum 8 seconds; - Synchronous discharge for cardioversion; - Automatic system to limit the power to 50J in case when the system recognises the paediatric paddles; - automatic cancellation and shock discharge system up to 30 seconds of non-use period.	X X X X X X		<input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual
Other technical characteristics - Monitor: HD colour, 7 inches, allows the display: ECG, Peacemaker detected, AED, SpO2 mode, non-invasive blood pressure,	X		<input type="checkbox"/> Leaflet, User Manual

battery status, alarms, date and time, automatic counting of shocks. - Automatic evaluation of ECG. - External peacemaker mode: included , non-invasive, single-phase rectangular waveform, ways of functioning – fixed or at request, energy area 5-200 mA, pulse rate 30-180 ppm - SpO2 module measuring range 1-100% (resolution minimum 3), cu Pulse Rate 20-250 BPM (resolution minimum 3 bpm) - wi fi or bluetooth module included with the possibility to be installed , as option for future ,compatible software for data transmittion	X X X X		<input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual
Technical Specification	Yes	No	Remarks
Must To allow the subsequent installation of the modules and the accessories: - NIBP module non-invasive blood pressure, optionally, to meet the following requirements: <ul style="list-style-type: none"> - Automatic or manual mode; - oscillometric measurement; - adult/child domain 40-300 mm HG; - new born domain 20-150 mmHg; alarms for maximum and minimum limits	X X X X X X		<input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual <input type="checkbox"/> Leaflet, User Manual
Certification:			
<input type="checkbox"/> ISO 9001 <input type="checkbox"/> ISO 13485 <input type="checkbox"/> CE <input type="checkbox"/> CE Declaration of Conformity 93/42/EEC	X X X X		<input type="checkbox"/> certificate attached <input type="checkbox"/> certificate attached <input type="checkbox"/> certificate attached <input type="checkbox"/> certificate attached
Other services included in offer			
<input type="checkbox"/> transport to the final customer <input type="checkbox"/> instalation and put in function <input type="checkbox"/> training for the technical staff for final customer <input type="checkbox"/> training for the medical staff for final customer <input type="checkbox"/> warranty for 24 months	X X X X X		<input type="checkbox"/> bidder declaration attached <input type="checkbox"/> bidder declaration attached <input type="checkbox"/> bidder declaration attached <input type="checkbox"/> bidder declaration attached <input type="checkbox"/> bidder declaration attached
GUARANTEE			

<input type="checkbox"/> 24 months guaranteed from signing the receiving minutes	X		<input type="checkbox"/> bidder declaration attached
SERVICE AND MAINTENANCE			
<input type="checkbox"/> the bidder has technical facilities necessary for the service both for ambulances as well as for medical equipment according to the general guarantee conditions and the user guide of the manufacturer	X		<input type="checkbox"/> bidder declaration attached
<input type="checkbox"/> Maximum time for technical intervention – 48 hours.	X		<input type="checkbox"/> bidder declaration attached
<input type="checkbox"/> Maximum time for remedial measures, in total 72 hours.	X		<input type="checkbox"/> bidder declaration attached
<input type="checkbox"/> The technical service and current repair will be performed without waiting in a queue.	X		<input type="checkbox"/> bidder declaration attached
<input type="checkbox"/> Temporary replacement of the equipment has to be ensured according to the periods mentioned above.	X		<input type="checkbox"/> bidder declaration attached
<input type="checkbox"/> During the guarantee period, at the reasonable request of the user, repair, adjustments and maintenance of medical equipment ,according to the specifications in the manufacturers’ guides, will be done free of charge.	X		<input type="checkbox"/> bidder declaration attached
<input type="checkbox"/> The spare parts and workmanship are for free, except from the consumables for vehicles established by the manufacturer	X		<input type="checkbox"/> bidder declaration attached
Technical Specification	Yes	No	Remarks
AVAILABILITY OF SPARE PARTS			
<input type="checkbox"/> the bidder will ensure the availability of spare parts, accessories and consumables for all	X		<input type="checkbox"/> bidder declaration attached

<p>offered positions on the market of the Republic of Moldova for at least 10 years from putting into operation, free of charge or against payment, as follows:</p> <ul style="list-style-type: none"> ○ spare parts free of charge, including the workmanship for the 36 months of guarantee period ○ for the rest of the period – against payment for at least 10 years period is fulfilled. <p>☐ The bidder will submit the pricelist for the spare parts and the maintenance program to the Ministry of Health, Labour and Social Protection as beneficiary</p>	<p>X</p> <p>X</p> <p>X</p>		<p>☐ bidder declaration attached</p> <p>☐ bidder declaration attached</p> <p>☐ bidder declaration attached</p>
GUIDES			
<p>☐ Technical Guide and User Guide.</p> <p>☐ All guides will be available in Romanian /Russian.</p>	<p>X</p> <p>X</p>		<p>☐ bidder declaration attached</p> <p>☐ bidder declaration attached</p>