REQUIRED TECHNICAL SPECIFICATIONS:	PROPOSED TECHNICAL SPECIFICATIONS URIT-8210: Manufacturer: URIT MEDICAL ELECTRONIC (GROUP) CO., Ltd, China	COINCIDING, Reference
GENERAL CHARACTERISTICS:	GENERAL CHARACTERISTICS:	
> 50-70 tests performed simultaneously and min.	330 t/hour, 575 t/hour with ISE.	Yes,
Minimum 3 ion test parameters	Ion test parameters: Fe, Ca, Mg, P, CO2, plus Na, K, Cl	Yes, IFU, page 26
Automatic wash system		Yes, IFU, page 23
Bidirectional interface	Bidirectional interface	Yes, IFU , page 16
Priority of STAT emergency tests (at any time and in unlimited numbers)	Priority of STAT emergency tests (at any time and in unlimited numbers)	Yes, IFU, page 12, 8
Principle of measuring photometric absorbance, tubidimetry	Principle of measuring photometric absorbance, tubidimetry	Yes, IFU, page 15
Samples used: serum, plasma, urine, CSF	Samples used: serum, plasma, urine, CSF	Yes, IFU, Page 15
The biochemistry analyzer is fully configured	Full-automatic, discrete/optional, STAT priority, with reset function	Yes, IFU, page 15
Methodology: end-point, end-point with blank, fixed-time, kinetic, with one, two, three, four reagents, monochromatic / bichromatic.	Methodology: End point, rate assay(kinetic method), 2-point end point, 2-point rate assay (2-point kinetic method), dual-wavelength, blank method(reagent blank, sample blank and water blank), immune turbidimetry, double reagent, electrode, colorimetric method, sample appearance inspection (serum index, such as jaundice, hemolysis and lipid turbidity, etc.), nonlinear detection, etc.	Yes, IFU, page 15
The analyzer ensures the traceability of reagents, calibrators, controls and run protocols	The analyzer ensures the traceability of reagents, calibrators, controls and run protocols	Yes, IFU, page 15
Programming: open system, defines the profile and calculates chemically	Programming: open system, defines the profile and calculates chemically	Yes, IFU, page 16
List of executed tests:	List of executed tests:	
Hepatic: ALT, AST, ALP, GGT, D Bil, T Bil,	Hepatic: ALT, AST, TP, ALB, TB, DB, ALP, GGT, TBA, CHE, PA, ADA	Yes, IFU, page 232-233

Renal: UREA, CREATE, Microalbumin,	Renal: UREA, CREA, UA, beta2-MG, MALB, Cys-c, CO2, CSF/UTP	Yes, IFU, page 232-233
Electrolytes: K, Na, CO, Cl, Inorganic ions: Ca, Mg, P	Electrolytes: Li, K, Na, Cl, Inorganic ions: Ca, Mg, P, Fe, CO2,	Yes, IFU, page 232-233 , 26
Cardiac CK, CK MB, LDH,	Cardiac CK, CK MB, HBDH, LDH, LDH1	Yes, IFU, page 232-233
Lipids: Col TG, HDL-C, LDL-C, APOA 1, APOB, LP (a),	Lipids: TG, CHOL, HDL-, LDL-C, APO A1, APOB, HCRP, LP(a)	Yes, IFU, page 232-233
Lipase or Pancreatic: Alpha AMY, LIP, Pancreatic Amylase, Acid Phosphatase	Lipase or Pancreatic: Alpha AMY, LIP, Pancreatic Amylase, Acid Phosphatase	Yes, IFU, page 232-233
		Yes, IFU, page 232-233
Diabetes: GLU PAP, GLU HK, HbAl c.	Diabetes: GLU PAP, GLU HK, HbAI c.	HbAl - can be tested
Rheumatism: CRP, RF, ASO	Rheumatism: CRP, RF, ASO	Yes, IFU, page 232-233
Immune: IgA, IgG, IgM,	Immune: IgA, IgG, IgM, C3, C4	Yes, IFU, page 232-233
Sample positions: + 60-90 positions for primary tubes 5,7,70 ml and sample cups.	Sample positions: 71sample positions including Detergent, standard, QC, STAT positions	Yes, IFU, page 15-16
Built-in barcode reader for all test positions	Built-in barcode reader for all test positions	Yes, IFU, page 16
Sample volume: 1.5-45 µL from 0.1µl to 0.1µl (mature tubes + pediatric tubes)	Sample volume: 2-100 µl with 0.1µl full increment	Yes, IFU, prospect
Automatic fluid level detection (sample), blood clot detection, alert for haemolyzed, jaundiced and lipemic samples, collision protection, vertical collision detection	Automatic fluid level detection (sample), blood clot detection, alert for haemolyzed, jaundiced and lipemic samples, collision protection, vertical collision detection	Yes, IFU, page 15, 16
Warning about the lack of samples, the on board validity of the samples.	Warning about the lack of samples, the on board validity of the samples.	Yes, IFU, page 16
Continuous loading of samples during the work session	Continuous loading of samples during the work session	Yes, IFU, page 16
Automatic washing of the sample needle, both inside and outside	Automatic washing of the sample needle, both inside and outside	Yes, IFU, page 15
Sample dilution: automatic pre-dilution and post-dilution of samples	Sample dilution: automatic pre-dilution and post-dilution of samples (re-run test and diluted sample).	Yes, IFU, page 113
The dilution of the samples is done in the tank, in case of any abnormality of it - nonlinear samples, insufficient serum.	The dilution of the samples is done in the tank, in case of any abnormality of it - nonlinear samples, insufficient serum, high	Yes, IFU, page 113

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Sample identification: with barcode reader (optional)  ty of Warning about the lack of samples, the on board validity of the samples.	omplete the sample volume during the	nt volume: 10 -200 µL. The amount from 0.50 µl to Reagent volume: R1 - 10 -500 µL. R2- 10-500 µl, with 0.50 µl increment	Preheat of the reagent before pipetting of the serum  Preheat of the reagent before pipetting of the serum  Yes, IFU, p	Yes, IFU, p.	yzer uses standard reagent cuvettes - 10 ml, 25 ml.  The analyzer uses standard reagent cuvettes - 10 ml, 25 ml.		Sample identification: with barcode reader (optional)  Warning about the lack of samples, the on board validity of the samples.  e It is allowed to complete the sample volume during the working process  The biochemical analyzer has a bucket for distillated H2O, wash, wastes.  REAGENTS COMPARTMENT:  REAGENTS COMPARTMENT:  REAGENTS COMPARTMENT:  Nof the remaining reagent volume and number of available tests, collision protection.  Washing of the reagent needles is done automatically, both inside and outside  Positions for reagents: 59 reagent positions and 1 detergent position in the refrigeration compartment 2-10o C  Reagent volume: R1 - 10 -500 µL. R2- 10-500 µl, with 0.50 µl increment  Preheat of the reagent before pipetting of the serum  Preheat of the reagent before pipetting of the serum	es, IFU, p
omplete the sample volume during the process		PARTMENT:  REAGENTS COMPARTM  Automatic liquid level determand reagent volume and number of available tests, volume and number of available tests, agent needles is done automatically, both entire the positions in the refrigeration position in the refrigeration position in the refrigeration	ENTS COMPARTMENT:  REAGENTS COMPARTMENT:  Automatic liquid level detection, automatic calculation of the remaining reagent volume and number of available tests, protection.  n protection.  ng of the reagent needles is done automatically, both and outside  ns for reagents: + 50-80 positions in the refrigeration treent 2-I 0 C  nt volume: 10 -200 μL. The amount from 0.50 μI to increment  REAGENTS COMPARTMENT:  Automatic liquid level detection, automatic calculation of the remaining reagent volume and number of available tests, collision protection.  Washing of the reagent needles is done automatically, both inside and outside  Positions for reagents: 59 reagent positions and 1 detergent position in the refrigeration compartment 2-10 o C  Reagent volume: R1 - 10 -500 μL. R2- 10-500 μI, with 0.50 μI  REAGENTS COMPARTMENT:	REAGENTS COMPARTMENT:  atic liquid level detection, automatic calculation of the reagent volume and number of available tests, protection.  n protection.  ng of the reagent needles is done automatically, both and outside  ns for reagents: + 50-80 positions in the refrigeration trenent 2-1 0 C  nt volume: 10 -200 µL. The amount from 0.50 µl to increment  at of the reagent before pipetting of the serum  REAGENTS COMPARTMENT:  Automatic liquid level detection, automatic calculation of the remaining reagent volume and number of available tests, collision protection.  Washing of the reagent needles is done automatically, both inside and outside  Positions for reagents: 59 reagent positions and 1 detergent position in the refrigeration compartment 2-100 C  Reagent volume: R1 - 10 -500 µL. R2- 10-500 µl, with 0.50 µl  increment  Preheat of the reagent before pipetting of the serum	atic liquid level detection, automatic calculation of the regent volume and number of available tests, no protection.  The protection of the reagent reagent needles is done automatically, both and outside respent reagents: + 50-80 positions in the refrigeration retwent 2-10 C rule volume: 10 -200 μL. The amount from 0.50 μl to at of the reagent before pipetting of the serum  REAGENTS COMPARTMENT:  REAGENTS COMPARTMENT:  Automatic liquid level detection, automatic calculation of the remaining reagent volume and number of available tests, collision protection.  Yes, Positions for reagent positions and 1 detergent position in the refrigeration compartment 2-100 C  Reagent volume: R1 - 10 -500 μL. R2- 10-500 μl, with 0.50 μl  Yes, Protection protection and number of available tests, collision protection.  Yes, Positions for reagents: 59 reagent positions and 1 detergent position in the refrigeration compartment 2-100 C  Reagent volume: R1 - 10 -500 μL. R2- 10-500 μl, with 0.50 μl  Yes, Protection protection and number of available tests, collision protection.  Yes, Positions for reagents before pipetting of the serum  Yes, Protection protection and number of available tests, collision protection.  Yes, Protection protection and number of available tests, collision protection.  Yes, Protection protection protection protection.  Yes, Protection protection protection and number of available tests, collision protection.  Yes, Protection protection protection protection.  Yes, Protection protection protection protection protection protection.  Yes, Protection protection protection protection protection protection protection.	PARTMENT:  avel detection, automatic calculation of the volume and number of available tests, agent needles is done automatically, both agent: +50-80 positions in the refrigeration C  10 -200 µL. The amount from 0.50 µl to agent before pipetting of the serum agent before pagent cuvettes - 10 ml, 25 s standard reagent cuvettes - 10 ml, 25 ant positions is left without a test reagent, execute the next test, returning to it when at is added.	The biochemical analyzer has a bucket for distillated H2O, wash, wastes.	'es, IFU, pagi 7
The biochemical analyzer has a bucket for distillated H2O, wash, wastes.	The biochemical analyzer has a bucket for distillated H2O, wash, wastes.	ection, automatic calculation of the and number of available tests, collision eedles is done automatically, both reagent positions and 1 detergent compartment 2-10o C	atic liquid level detection, automatic calculation of the ing reagent volume and number of available tests, protection.  In pr	atic liquid level detection, automatic calculation of the reagent volume and number of available tests, no protection.  Automatic liquid level detection, automatic calculation of the remaining reagent volume and number of available tests, collision protection.  Washing of the reagent needles is done automatically, both inside and outside  s for reagents: + 50-80 positions in the refrigeration the refrigeration position in the refrigeration position in the refrigeration position in the refrigeration compartment 2-10 C  Reagent volume and number of available tests, collision protection.  Washing of the reagent positions and 1 detergent positions for reagents: 59 reagent positions and 1 detergent position in the refrigeration compartment 2-10 C  Reagent volume and number of available tests, collision protection.  Washing of the reagent protection.  Positions for reagents: 59 reagent positions and 1 detergent position in the refrigeration compartment 2-10 C  Reagent volume and number of available tests, collision protection.  Washing of the reagent protection.  Positions for reagents: 59 reagent positions and 1 detergent position in the refrigeration compartment 2-100 C  Reagent volume: R1 - 10 -500 μL. R2- 10-500 μl, with 0.50 μl increment  Preheat of the reagent before pipetting of the serum	atic liquid level detection, automatic calculation of the regent volume and number of available tests, protection.  n protection.  ng of the reagent needles is done automatically, both and outside  ns for reagents: + 50-80 positions in the refrigeration twolume: 10 -200 μL. The amount from 0.50 μl to at of the reagent before pipetting of the serum  at of the reagent volume and number of available tests, collision remaining reagent volume and number of available tests, collision remaining reagent volume and number of available tests, collision remaining reagent volume and number of available tests, collision reagent needles is done automatically, both inside and outside  Yes, Protection.  Nashing of the reagent positions and 1 detergent position in the refrigeration compartment 2-10 C  Reagent volume: R1 - 10 -500 μL. R2- 10-500 μl, with 0.50 μl  Yes, Protection.  Yes, Protection.  Preheat of the reagent before pipetting of the serum  Yes, Protection.	ion, automatic calculation of the d number of available tests, relation of a number of available tests, respectively. So positions in the refrigeration repipetting of the serum reagent cuvettes - 10 ml, 25 reagent cuvettes - 10 ml, 25 respectively. So is left without a test reagent, a next test, returning to it when a respectively.	REAGENTS COMPARTMENT:	
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The biochemical analyzer has a bucket for distillated H2O, wash, wastes.  REAGENTS COMPARTMENT:  Remaining reagent volume and number of available tests, collision protection.  y, both Washing of the reagent needles is done automatically, both inside and outside	The biochemical analyzer has a bucket for distillated H2O, wash, wastes.  REAGENTS COMPARTMENT:  n of the Automatic liquid level detection, automatic calculation of the remaining reagent volume and number of available tests, collision protection.  y, both Washing of the reagent needles is done automatically, both inside and outside		Reagent volume: R1 - 10 -500 µL. R2- 10-500 µl, with 0.50 µl increment	nt volume: 10 -200 µL. The amount from 0.50 µl to Reagent volume: R1 - 10 -500 µL. R2- 10-500 µl, with 0.50 µl increment  at of the reagent before pipetting of the serum  Preheat of the reagent before pipetting of the serum	nt volume: 10 -200 µL. The amount from 0.50 µl to increment  at of the reagent before pipetting of the serum  Reagent volume: R1 - 10 -500 µL. R2- 10-500 µl, with 0.50 µl increment  Preheat of the reagent before pipetting of the serum	re pipetting of the serum reagent cuvettes - 10 ml, 25 reagent a capacity of +/- 10000 with a capacity of enext test, returning to it when reagent, and rest test.	Positions for reagents: 59 reagent positions and 1 detergent position in the refrigeration compartment 2-10o C	es, IFU, pros
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Automatic liquid level detection, automatic calculation of the reagent volume and number of available tests, protection.  In the biochemical analyzer has a bucket for distillated H2O, wash, wastes.  REAGENTS COMPARTMENT:  REAGEN	process cochemical analyzer should not require a water ant station and must be equipped with adapted for H2O, wash, wastes.  REAGENTS COMPARTMENT:  REAGENTS CO	Preheat of the reagent before pipetting of the serum  Preheat of the reagent before pipetting of the serum  Preheat of the reagent before pipetting of the serum  The analyzer uses standard reagent cuvettes - 10 ml, 25 ml.  The analyzer uses standard reagent cuvettes - 10 ml, 25 ml.  Should be reusable, with a capacity of +/- 10000 Rotor should be reusable, with a capacity of +/- 10000 tests	e analyzer uses standard reagent cuvettes - 10 ml, 25 ml, 50  *  Stor should be reusable, with a capacity of +/- 10000 tests	analyzer uses standard reagent cuvettes - 10 ml, 25 ml.  The analyzer uses standard reagent cuvettes - 10 ml, 25 ml.  The analyzer uses standard reagent cuvettes - 10 ml, 25 ml.  The analyzer uses standard reagent cuvettes - 10 ml, 25 ml.  The analyzer uses standard reagent cuvettes - 10 ml, 25 ml, 50 ml.  The analyzer uses standard reagent cuvettes - 10 ml, 25 ml, 50 ml.	or should be reusable, with a capacity of +/- 10000 Rotor should be reusable, with a capacity of +/- 10000 tests		Rotor should be reusable, with a capacity of +/- 10000 tests	es, IFU,

Available reagent volume monitoring system	Available reagent volume monitoring system	Yes, IFU, page 16
Alarm system in case of small volumes, expired reagents or in case of lack of reagents	Alarm system in case of small volumes, expired reagents or in case of lack of reagents	Yes, IFU, page 15-16
The device provides information referring to the number of tests that can be performed with the volume of reagent on board	The device provides information referring to the number of tests that can be performed with the volume of reagent on board	Yes, IFU, page 15-16
Built-in barcode reader for reagents	Built-in barcode reader for reagents	Yes, IFU, page 15-16
REACTION SYSTEM:	REACTION SYSTEM:	2
Reaction rotor - reusable. Cuvette: optical length 5 mm. Reaction volume: minimum 100 and maximum 300 µl. Operating temperature: 37 + 0.1 oC	Reaction rotor - reusable. Cuvette: optical length 5 mm. Reaction volume: minimum 100 and maximum 300 µl. Operating temperature: 37 + 0.1 oC	Yes, IFU, page 44 Reaction cup optical path: 7mm.
Mixing system: independent mixing through the 2 systems	Mixing system: independent mixing through the 2 systems	Yes, IFU, page 44
OPTICAL SYSTEM:	OPTICAL SYSTEM:	
Light source: halogen -tungsten lamp	Light source: halogen lamp 12V/20W	Yes, IFU, prospect
Photometry: optical reversion, place for static photometric fiber	Optical system: high-resolution filter and halogen light. The photoelectric system is full-closed, static, concave holographic aberration-reduced grating, rear light-splitting optical system.	Yes, IFU, page 17, 25
Wavelengths (12): 340 nm, 380 nm, 412 nm, 450 nm, 505 nm, 546 nm, 570 nm, 605 nm, 660 nm, 700 nm, 740 nm, 800 nm.	Wavelengths (10): (340nm, 405nm, 450nm, 492nm, 510nm, 546nm, 578nm, 630nm, 700nm, 800nm). And there are two blank position alternatives to choose.	Yes - partially, IFU, page 17
Absorption range: from 0 to 3.3 abs (10 mm conv.).  Resolution: 0.0001 Abs	Absorption range: from 0 to 3.2 abs (10 mm conv.). Resolution: 0.0001 Abs	Yes, Prospect

MODULE ISE Parameters - Na, K, CI, Li, CO	MODULE ISE Parameters - Na, K, CI, Li	cannot be tested CO
Sample type: serum, plasma, urine	Sample type: serum, plasma, urine	Yes, IFU, page
	Sample volume used - serum and plasma 70 µl, diluted urine 140	Yes, IFU, page 26
Sample volume used - serum and plasma 70 µl, diluted urine 140 µl. Reagent pack Na / K / Cl, CO.	waste solution emission components. Use special reagents pack	Need ADD Li-ion electrode to user
		manual page # 26.
		Yes, IFU, page
Washing solutions + ion module control	Washing solutions + ion module control	Need ADD to user manual page # 26.
CONTROL AND CALIBRATION:	CONTROL AND CALIBRATION:	
Calibration mode: One point linear, two point linear, multipoint Linear, Logit-Log4P, Logit Log 5P, Exponential, Polynomial, Parabola, Spline	Calibration mode: One point linear, two point linear, multi-point Linear, Logit-Log4P, Logit Log 5P, Exponential, Polynomial, Parabola, Spline	Yes, IFU, page 15, 139, 173
Calibrations can be archived, so that new calibrations can be compared with measured data.	Calibrations can be archived, so that new calibrations can be compared with measured data.	Yes, IFU, page 15, 174
QC is a daily, mandatory test, at least 1 per day	QC is a daily, mandatory test, at least 1 per day	Yes, IFU, page 15, 173
Quality Controll software: Westgard multirule, cumulative sum checking, duble plot.	Quality Controll software: <b>Levey-jennings method,</b> Westgard multirule, cumulative sum checking, duble plot.	Yes, IFU, page 15, 173
It is possible to define 2 types of controls per test	It is possible to define 2 types of controls per test	Yes, IFU, page 139
PRINTING RESULTS AND DATA MANAGEMENT:	PRINTING RESULTS AND DATA MANAGEMENT:	
Printer included	Printer included ontional	Yes, IFU, page 170

request, the possibility of fast reporting	The printing of the results can be done automatically or on request, the possibility of fast reporting	Yes, IFU, page 170
The results can be printed on the system printer or on a network printer	The results can be printed on the system printer or on a network printer	Yes, IFU, page 170
Provide statistical data about the number of tests / calibrations / controls / repetitions / dilutions performed daily and at period of time	Provide statistical data about the number of tests / calibrations / controls / repetitions / dilutions performed daily and at period of time	Yes, IFU, page
OPERATING UNIT:	OPERATING UNIT:	
Original operating system: Windows 8 64-BIT	Original operating system: Windows 7, Windows XP	Yes, IFU, page 15
Interface: RS 232. Network Port. USB / parallel port	Interface: RS 232. Network Port. USB / parallel port	Yes, IFU, page 15-16
Original software for operating protocols of technological processes of working with reagents // controls // calibrators	Original software for operating protocols of technological processes of working with reagents // controls // calibrators	Yes, IFU, page
Manual data entering, using keyboard, mouse, barcode reader – optional, or using online connection to LIS	Manual data entering, using keyboard, mouse, barcode reader – optional, or using online connection to LIS	Yes, IFU, page 15
Calculator // monitor (all-in-one) built-in monobloc	Calculator // monitor (all-in-one) built-in monobloc	Separate:PC, device and monitor
Touch screen monitor built into the analyzer	Touch screen monitor built into the analyzer	No, External computer
The navigation / operation of touch screen must be integrated, and must be from the identical manufacturer	The navigation / operation of touch screen must be integrated, and must be from the identical manufacturer	External PC: separate system unit and monitor
Working conditions, power sources: Ac 200v +/-10%; 50/60 Hz, Ups Battery Included 2	Working conditions, power sources: Ac 110/230 v +/-10%; 50/60 Hz, 500 VA Ups Battery Included 2	Yes, IFU, page 15 prospect  Need to buy separately UPS with the requested ones. specifications (2 batteries)

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Temperature: 15-30 oC Humidity: 35-85 %, 0 Kva	Temperature: 10-30 oC Humidity: till 85 %, 86-106kPa	Yes, IFU, prospect
Special requirements: The medical equipment (automatic	Special requirements: The medical equipment (automatic	Yes, Declaration of
biochemical analyzer) will be pre-tested during 15 days in laboratory of District Hospital Hînceşti before to sign of the	biochemical analyzer) will be pre-tested during 15 days in laboratory of District Hospital Hînceşti before to sign of the	supplier is attached
contract	contract	

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