HumaLyzer 4000

A pioneer in the field of clinical chemistry photometers

- > Reliable German engineering and manufacturing
- > More than 50 validated settings for HUMAN reagents
- > High precision with reference channel optics

Clinical Chemistry





HumaLyzer 4000

Setting new standards for semi-automated photometers

The HumaLyzer 4000 was developed together with our affiliated company LABiTec® in accordance with strict European IVD standards. The device is manufactured in Germany and has been successfully deployed in more than 70 different countries worldwide.



Smart hardware solutions

- > Large touch screen
- > Low energy consumption
- > Lamp save mode warm-up within seconds
- > Built-in incubator block10 round and 2 square positions



- Data management via onboard results, database, LIS or csv-export
- > External mouse and keyboard for quick input of patient data*
- > Handheld barcode scanner for samples*









User friendly

- > Multilanguage interface
- > Fast Run or Worklist: customize your workflow
- > Automatic maintenance reminders (e.g. cleaning)
- Simple update of software and settings
 via USB stick

Robust and cost efficient

- > Service by user, no technician necessary
- > Lamp life time of > 5000 h
- Basic wear and tear parts can be replaced without special tools by laboratory staff
- > No cleaning of interference filters required (sealed photometer module)



Innovative, convenient and reliable

Tutorial videos for staff training and an easy start

Included with the HumaLyzer 4000 are 5 video training tutorials. Supplementing the user manual, these provide a quick visual overview of the functionality and operation of your new instrument. Register here to watch the first tutorial for free:

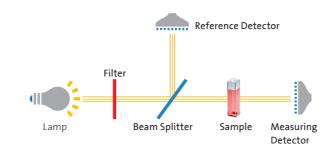
www.human.de/hl4000



Quality and precision with reference channel technology

The reference channel, usually only found in automatic analyzers, reduces signal noise and increases the precision of the measurement. It also allows the instrument to wake up from lamp save mode in only a few seconds. The light of the lamp is divided into a measuring channel and a reference channel.

The reference channel can compensate for drifts and fluctuations of the lamp or filters.



Independence from mains - reliable results under challenging conditions

Many patients in rural areas travel long distances to health centers to receive a diagnosis and therapy. Therefore, it is important to ensure that the results are accurate and available in a timely manner to ensure appropriate therapy. The HumaLyzer 4000 can even run for almost up a full working day (4-8 hours) off-grid with the optional HUMAN battery pack. For greater flexibility, the battery pack can also be recharged using the optional solar panel.



Multipurpose reagents with validated settings - Made in Germany

HUMAN clinical chemistry reagents are manufactured to the highest quality standards at the HUMAN production facility in Germany. HUMAN offers ready-to-use, liquid stable reagents in different convenient kit sizes. The validated settings are pre-programmed on the HumaLyzer 4000 and the whole clinical chemistry intrument line.



Validated reagent settings preinstalled

High quality multipurpose reagents

We produce our reagents in accordance with the latest quality standards. More than 50 validated settings of HUMAN reagents are preinstalled



A-G	REF
ALBUMIN liquicolor	10560, 156004
ALKALINE PHOSPHATASE liquicolor*	12117
alpha-AMYLASE liquicolor	12218, 12018 12028
anti-Streptolysin-O (ASO)	11251P
APOLIPOPROTEIN A1 (APO A1)	11101
APOLIPOPROTEIN B (APO B)	11102
auto-BILIRUBIN-D liquicolor	10741
auto-BILIRUBIN-T liquicolor	10742
auto-CREATININE liquicolor	10052
CALCIUM liquicolor	10011
CHLORIDE liquicolor	10115
CHOLESTEROL liquicolor	10017, 10019 10028
CHOLINESTERASE liquicolor	12007
CK NAC activated liquiUV*	12015
CK-MB liquiUV*	12118
CREATININE (enzym) liquicolor	10053
CRP	11241
CYSTATIN-C liquidirect	11150
gamma-GT liquicolor*	12213, 12013 12023, 12033
GLUCOSE liquicolor	10121, 10260
GLUCOSE liquiUVmono	10786
GOT (ASAT) IFCC mod. liquiUV*	12211, 12011 12021, 12031
GPT (ALAT) IFCC mod. liquiUV*	12212, 12012 12022, 12032

HbA1c liquidirect 10770 HDL CHOLESTEROL liquicolor 10084, 10284 HEMOGLOBIN liquicolor 10751 IMMUNOGLOBULINS direct IgA 11501 IMMUNOGLOBULINS direct IgG 11502 IMMUNOGLOBULINS direct IgM 11503 IRON liquicolor 10229, 10230 IRON TPTZ liquicolor 12290, 12291 LDL CHOLESTEROL liquicolor 10094, 10294 LIPASE liquicolor 12006, 12026 MAGNESIUM liquicolor 10010 MICROALBUMIN 11120 PANCREAS-AMYLASE liquicolor 12009, 12029 PHOSPHORUS liquirapid 10027 RHEUMATOID FACTORS (RF Latex) 11261PA RHEUMATOID FACTORS (RF) 11261P SODIUM liquicolor 10513 TOTAL PROTEIN liquicolor 157004, 10570 TRANSFERRIN 1115 TRIGLYCERIDES liquicolor mono 10720P, 10724, 10725 UREA liquicolor* 10505, 10506, 10507 UREA liquicolor 10690, 10691 URIC ACID liquicolorplus 10690, 10691	H-U	REF
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	URIC ACID liquicolor	
		10694

HumaLyzer 4000

Specifications

Analyzer overview		Analyzer operation		
Analyzer type	Semi-automatic photo	meter	User interface	Color touch screen
Reagent system	Open Flow cell or square cuvette		Measuring modes	Photometry
Reaction system				(colorimetry, UV-tests, turbidimetry)
Incubator	Built-in: 10 round, 2 sq optional external incub HumaCube (220V)	•	Liquid handling	Peristaltic pump
	HumaCube (110V)	REF 17070	Memory	
Optical overview	Built-in, thermal printe	er	Result storage	10,000 results incl. reaction curve, method and calibration in searchable database + more on internal SD card (8 GB)
Overview	Reference channel optics with 8 different interference filters and 5W halogen reflector lamp		Method storage	144 method positions, including over 50 validated methods for HUMAN reagents plus user programmable methods
Photometer performance	Linearity 0.01 to 2.5 OD, Resolution 0.001 mAbs		QC module	Up to 4 levels of controls, monitored via QC periods and
Consumable				Levey Jennings charts
Flow Cell Cleaner 100 ml		REF 18222		

Ordering information

HumaLyzer 4000	REF 18250
Battery Pack Portable Battery System 73Wh	REF 18250/74
Solar Panel for recharging of 73 Wh battery	REF 18250/73
External Barcode Scanner Includes 1D barcode scanner and adapter cable	REF 18250/76
Humalyzer Calibration Tool Set Includes grey glas filter and reference values, aluminum block and USB stick for backup	REF 60600

Your local HUMAN partner

