



TEST	Measuring range	Repeatability	Resolution	Testing time
Fermentable sugars on beer (glucose, fructose, maltose, maltotriose)	0.1 - 200 g/L	0.15 g/L	0.1 g/L	6 min
Fermentable sugars on wort (glucose, fructose, maltose, maltotriose, sucrose)	15 - 200 g/L	2 g/L	1 g/L	6 min
Lactic Acid D+L	150 - 3500 ppm	2 ppm	1 ppm	10 min
Bitterness	5 - 80 IBU	1.0 IBU	0.1 IBU	11 min
Color	EBC 1-100 SRM 0.5-50.0	EBC 1 SRM 0.5	EBC 1 SRM 0.1	1 min
Alcohol by volume	0.001 - 0.1% vol	0.002% vol	0.001% vol	11 min
Alcohol by volume	0.1 - 2% vol	0.02% vol	0.01% vol	11 min
Alcohol by volume	2 - 17 % vol	0.2% vol	0.1% vol	11 min
VDKs	0.05 - 2 mg/L	0.03 mg/L	0.01 mg/L	5 minutes + distillation time
Yeast Vitality	0.5 - 2.6 AP	0.2 AP	0.1 AP	25 min
pH wort	3.60 - 6.00	0.02	0.01	1 min
Starch	0.1 - 5 g/L	0.05 g/L	0.01 g/L	1 min
Carbohydrates	2.0 - 80.0 g/L	0.6 g/L	0.1 g/L	13 min
Acetic acid	20 - 220 mg/L	3 mg/L	1 mg/L	6 min
FAN (beer and wort) <small>Free Amino Nitrogen by OPA</small>	30 - 300 mg/L	4 mg/L	1 mg/L	4 min
Total SO₂	1.0 - 30.0 ppm	0.2 ppm	0.1 ppm	2 min
Polyphenols	5 - 550 mg/L	4 mg/L	1 mg/L	5 min

In only 15 minutes is possible to analyze up to 16 samples with **CDR BeerLab®** and up to 3 with the **Junior** model.



TEST	Measuring range	Repeatability	Resolution	Time test
Calcium	20 - 250 ppm	3 ppm	0.1 ppm	1 min
Magnesium	2.0 - 50.0 ppm	1 ppm	0.1 ppm	1 min
Bicarbonate	1 - 300 ppm	5 ppm	1 ppm	10 min
Chloride	15 - 500 ppm	5 ppm	1 ppm	1 min
Potassium	5 - 500 ppm	5 ppm	1 ppm	1 min
Sulfate	10 - 250 ppm	5 ppm	1 ppm	1 min
Zinc	0.05 - 1 ppm	0.03 ppm	0.01 ppm	1 min
Alkalinity	5 - 600 mg/L	11 mg/L	1 mg/L	10 min

cdR BEERLab®
Analysis system for beer



CDR BeerLab® VER. 5.2 oel



Fast



Easy



Reliable



CDR BeerLab® is composed of a thermostated analyzer based on **photometric technology** that uses **LED**; a kit with disposable pre-viald **reagents** with **low toxicity**, in package of 10 tests, developed and produced by the research laboratories of CDR.



Just few steps are required to perform a test. The **HELP function** on the display will lead you step by step through the process.

Reduced testing times

With **CDR BeerLab®** now it is possible to perform the analyses autonomously, in your own brewery, **easily** and **rapidly**, without relying on dedicated external laboratories.

It is possible to **analyze 16 samples at the same time** (with the **CDR BeerLab® model**) and to monitor constantly the production process, obtaining in few minutes exact and accurate answers.

Easy to use

The system is designed to be used by anyone, without the support of skilled staff.

The analysis methods are easier than the traditional ones and can be performed in few steps:

- 1 Adding the sample volume to the pre-viald reagent.
- 2 Following the displayed instructions and if there is ever a doubt, the **HELP function** will lead you through the process.
- 3 Results are automatically calculated, displayed and printed.

Reliable

This measuring system owes its **sensitivity**, **accuracy** and **reliability** to the photometric technology based on LED luminous sources. The **results** of the analyses are **correlated with the reference methods**.



Display	
5.7" TFT color LCD touchscreen	4.3" Wide TFT color LCD touchscreen
Connectivity	
1 USB type B to transfer the database of the performed tests and update the configuration and software and PC connection	1 USB type B to transfer the database of the performed tests and update the configuration and software and PC connection
1 USB type A 1 Ethernet (LAN) Bluetooth 4.0	Bluetooth 2.1
Storage of results	
Internal memory to store thousands results of analyses in CSV and XML files, compatible with all database formats (e.g.:XLS, SQL).	Internal memory to store thousands results of analyses in CSV and XML files, compatible with all database formats (e.g.:XLS, SQL).
Photometric module	
6 different wavelengths in 4 reading cells	6 different wavelengths in 4 reading cells
Incubation module	
37°C thermostat block with 16 positions	37°C thermostated block with 3 positions
Connection with barcode scanner and QR code	
Yes, via bluetooth	No
Number of samples you can analyze at the same time	
16	3
Multitasking mode (possibility to perform more analyses on the same sample)	
Yes	No
Printer	
Graphic printer on board 80 mm width	Absent
Dimension and weight	
32 x 29,5 x 13 cm (W x D x H) 2,80 Kg	15 x 22 x 8,3 cm (W x D x H) 0,80 Kg
Power supply	
24 V	24 V or lithium ion battery (optional)

CDR BeerLab® Junior is configured as you like.