



BEERLab®

Analysis system for beer

	BEERLab®	BEERLab® Jr.
Display	5,7” TFT color LCD touchscreen	4,3” Wide TFT color LCD touchscreen
Connectivity	2 USB 2.0 to transfer the database of performed tests and update the configuration and software 1 USB type B for technical service and PC connection 1 Ethernet (LAN)	1 USB type B for technical service and PC connection 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
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.

CDR BeerLab® VER. 3.2 oeL



FOODLAB®
Quality control systems for food and beverage

CDR BeerLab® is a trademark of CDR S.r.l.
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THE SYSTEM

CDR BeerLab® is composed of a thermostated analyzer based on **photometric technology** that uses **LED**; a kit with disposable pre-vialed **reagents** with **low toxicity**, in package of 10 tests, 1 year shelf life, developed and produced by the research laboratories of CDR.



Just few steps are required to perform the analyses. If there is ever a doubt, 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 thesame 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-vialed 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**.

Analysis on beer and water with **CDR BeerLab®**

	TEST	Measuring range	Repeatability	Resolution	Testing time
Beer	**Fermentable sugars on beer** (glucose, fructose, maltose, maltotriose)	0.1 - 18.0 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	5.0 - 100.0 IBU	0.5 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	0.002 - 0.200% v/v	0.002% v/v	0.001% v/v	11 min
	Alcohol by volume	0.10 - 1.00% v/v	0.02% v/v	0.01% v/v	11 min
	Alcohol by volume	1.0 - 17.0 % v/v	0.2% v/v	0.1% v/v	11 min
	VDKs	0.10 – 2.00 ppm	0.03 ppm	0.01 ppm	5 minutes + distillation time
	pH wort	3.60 - 6.00	0.02	0.01	1 min
	Starch	0.10 - 10.00 g/L	0.05 g/L	0.01 g/L	1 min
	Acetic acid	20 - 220 mg/L	3 mg/L	1 mg/L	6 min
	FAN Free Amino Nitrogen by OPA	30 - 300 ppm	2 ppm	1 ppm	4 min
	Total SO_2	1.0 - 30.0 ppm	0.2 ppm	0.1 ppm	2 min

	TEST	Measuring range	Repeatability	Resolution	Time test
Water	**Calcium**	5.0 - 250.0 ppm	0.5 ppm	0.1 ppm	1 min
	Magnesium	2.0 - 50.0 ppm	0.5 ppm	0.1 ppm	1 min
	Bicarbonate	0 - 300 ppm	1 ppm	1 ppm	10 min
	Chloride	100 - 500 ppm	1 ppm	1 ppm	1 min
	Potassium	50 - 500 ppm	1 ppm	1 ppm	1 min
	Sulfate	20 - 250 ppm	1 ppm	1 ppm	1 min
	Zinc	0.05 - 1.00 ppm	0.03 ppm	0.01 ppm	1 min