

ColorPod EBC

Automatic Color Grading of Beers & Malts



The EBC color scale, developed by the Institute of Brewing and the European Brewing Convention, is a recognised method for color grading of beers, malts and caramel solutions as well as similarly colored liquids. It has a range of 2 to 27 visual units, yellower pale worts and lagers at the low end of the scale and the redder color of dark worts, beers and caramels at the upper end of the scale.

EBC ColorPod

Bellingham + Stanley supply a new hand held photometer for the analysis of EBC (European Brewing Convention) color units. The ColorPod is based on proven technology that has been utilised in the water testing area for a number of years.

Traditionally EBC color units have been derived using subjective visual assessment against glass standards and is used throughout Europe. Many samples required to be matched by the EBC color scale do not match the glass standards. This is due to the samples being off hue, too bright or too dull. This leads to differences in reported values between users. A more objective approach is to use an instrumental method based on a photometric measurement.

The EBC ColorPod combines simplicity with accuracy for the measurement of color in the brewing industry. The instrument is compact and portable allowing for measurements to be made in-situ, rather than having to carry samples back to the laboratory.

The measurement is performed in accordance with the official photometric EBC method for color that relates the light at 430 nm passed through the sample being analysed with the EBC color value. The light is generated by a single wavelength LED that will last the lifetime of the instrument; samples are measured in 10 mm path length plastic cuvettes that are inserted into the spill proof sample chamber. The measurements take only three seconds to perform, with results output either in EBC color units or absorbance at 430 nm.

Alternative scales derived from EBC color, such as the ASBC used in the United States may be calculated by performing a simple calculation:

$$\text{ASBC} = 0.375 \text{ EBC Color} + 0.46$$

To ensure the robustness of the instrument, the casing is splash proof with a chemical resistant keypad fitted. To maintain battery life the instrument powers itself down if it has not been used for five minutes.

Order Codes

Order Code	Description
44-840	EBC ColorPod for beers and Malts.
44-841	Plastic cuvette – 2-sided (pack of 100)

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