



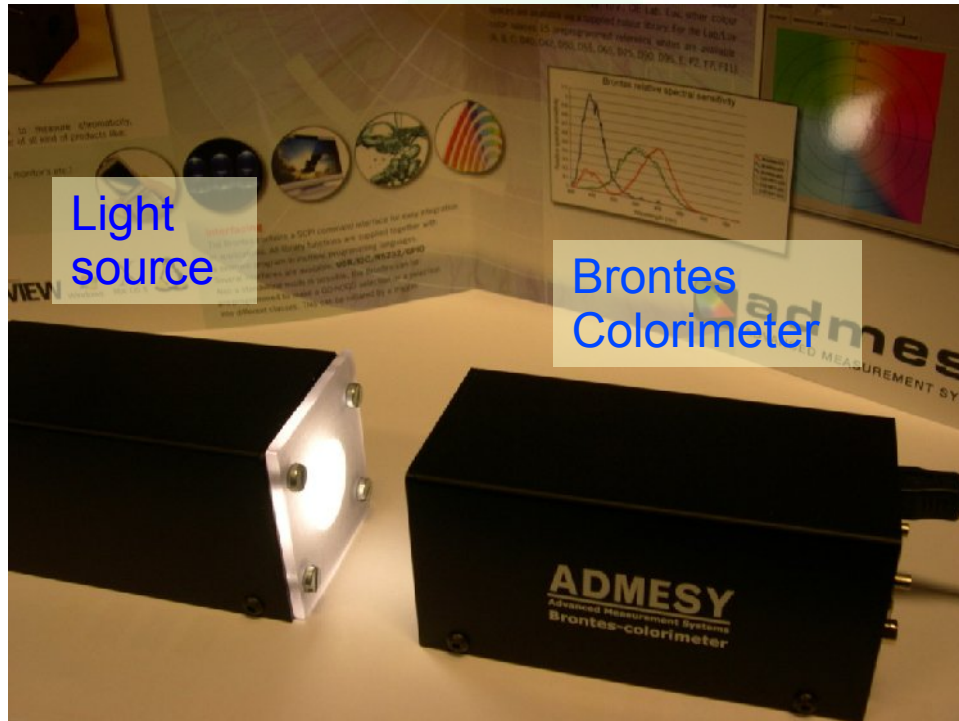
Transmissive colour measurement

Relative colour measurement (CIE Yxy colourspace)

&

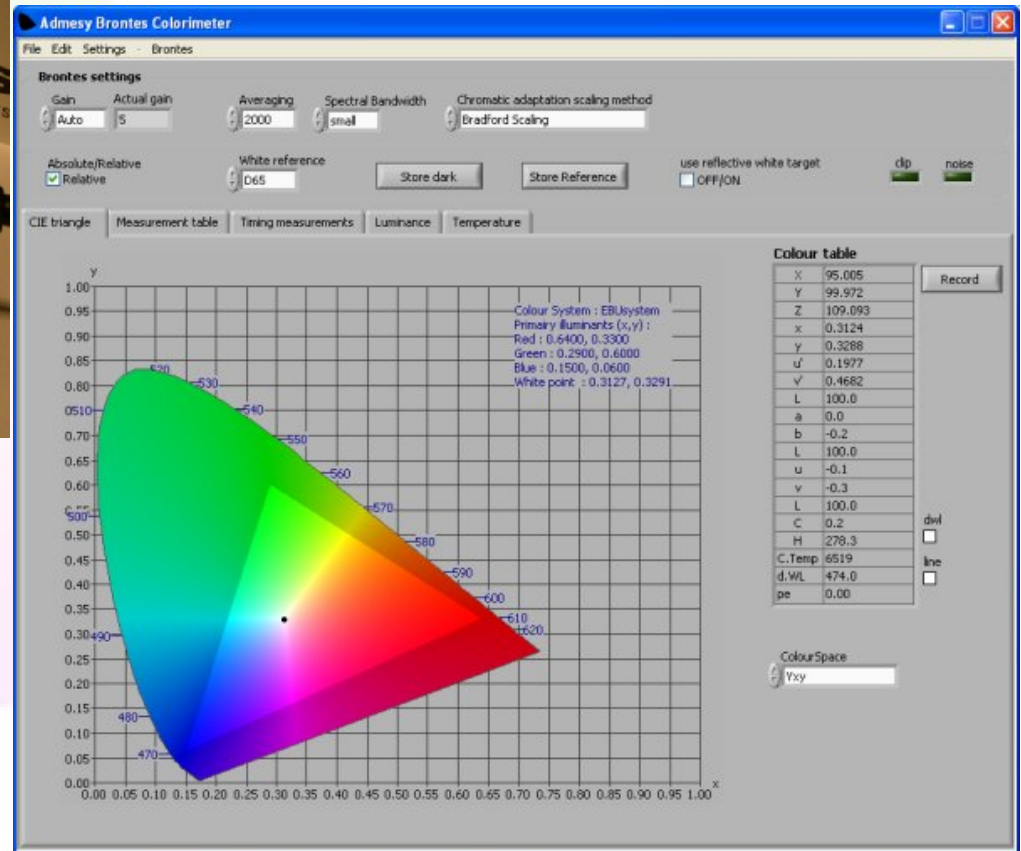
Measuring colour differences (CIEL*a*b* colourspace, deltaE)

Transmissive measurement : Reference



Light source

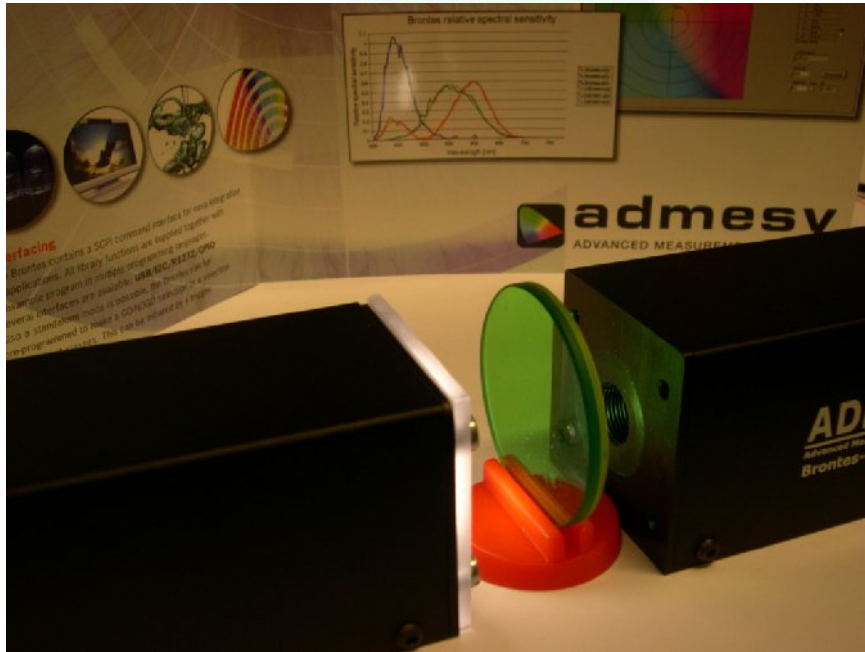
Brontes Colorimeter



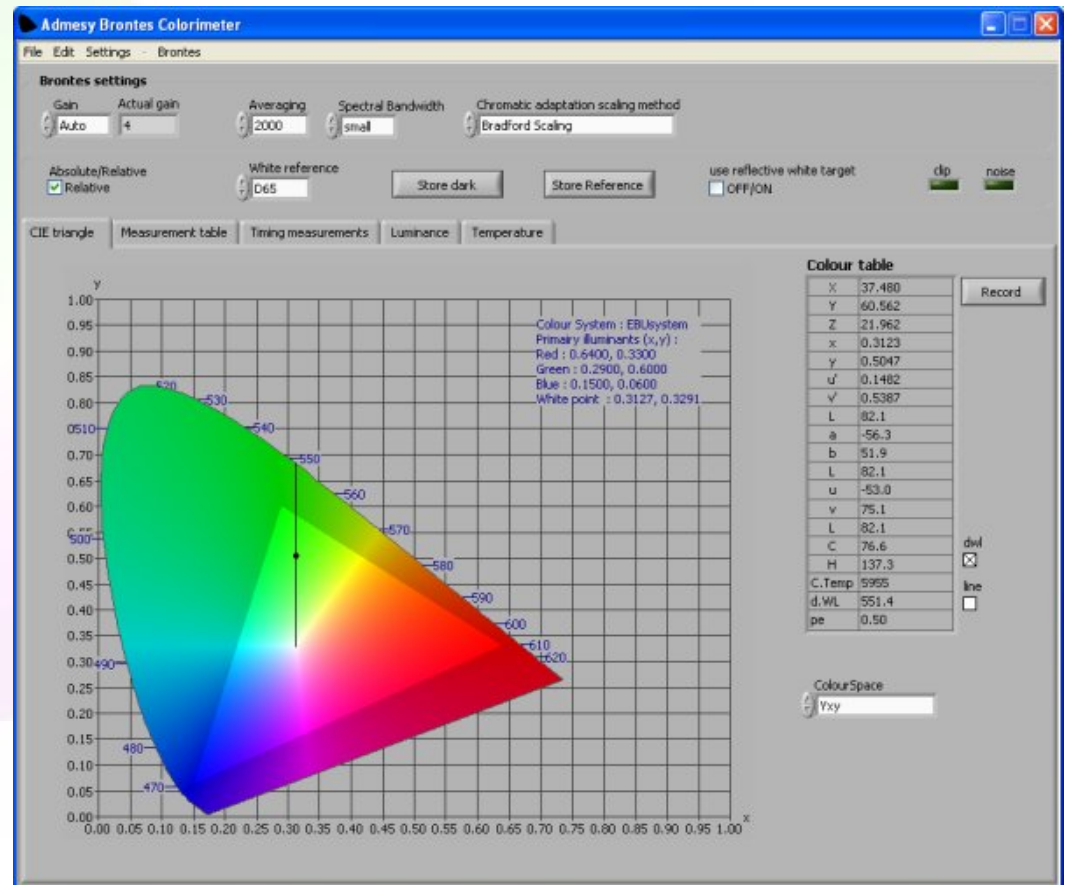
Transmissive measurement :
Light source = reference point
or
Sample+light source = reference point

The screen shot shows the reference being set to a D65 white point. Other reference points can be selected in the software.

Transmissive measurement : Sample

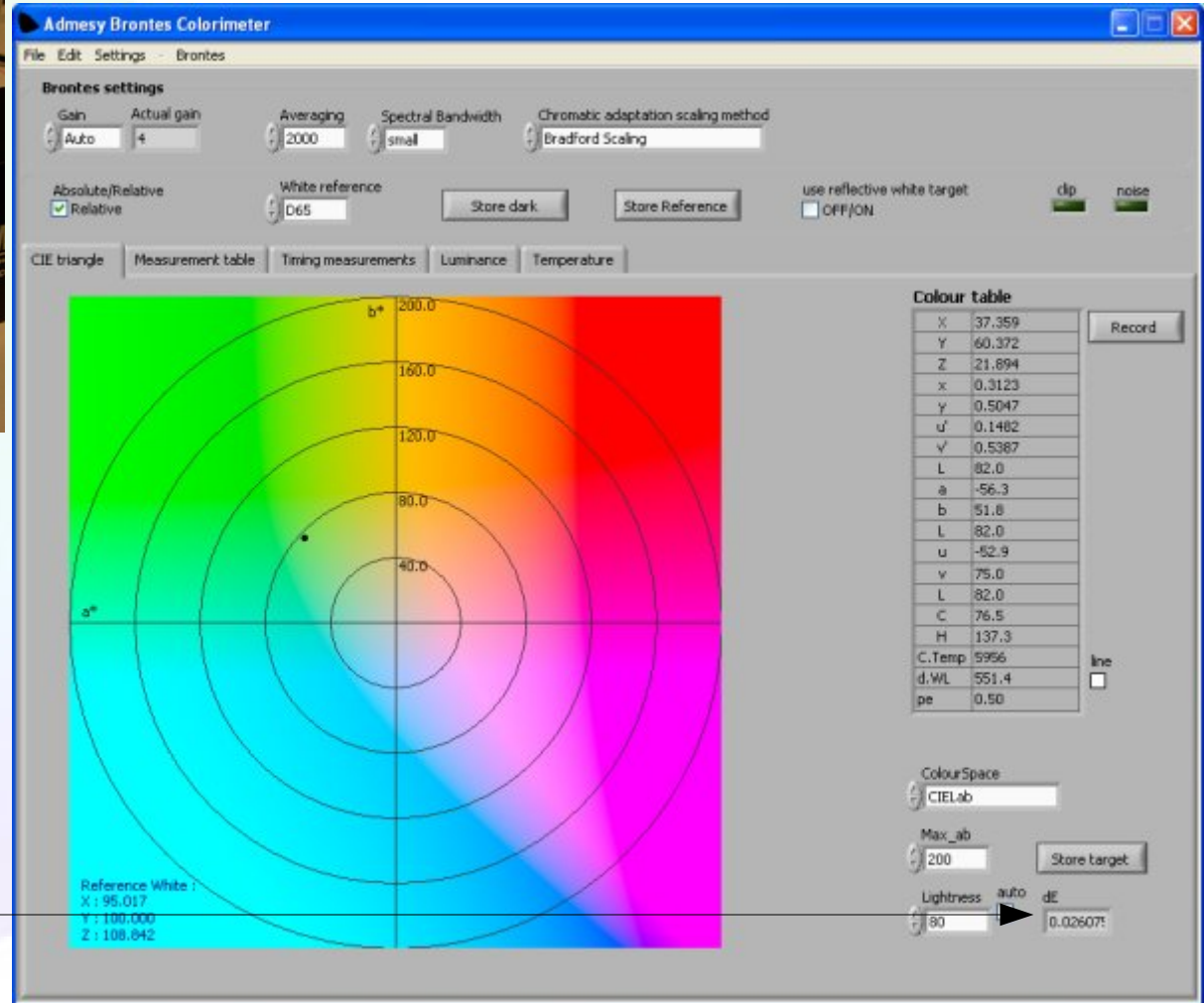
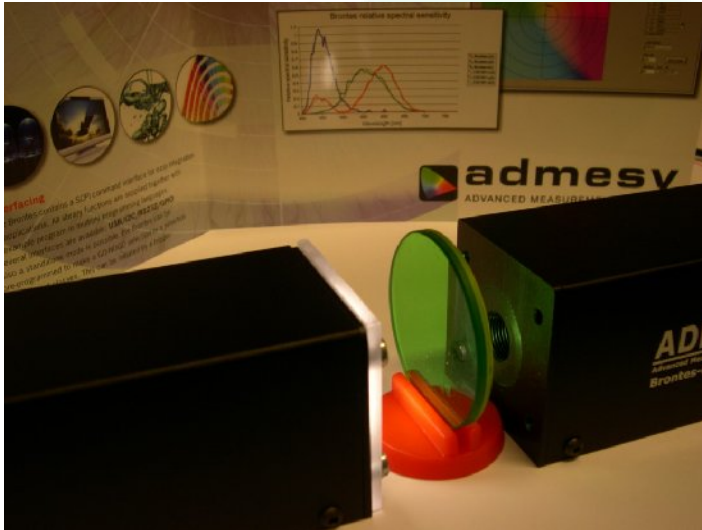


Measuring a green sample glass.



The Brontes measures the green sample glass and shows the result on the screen in x,y format. CIE Lab can also be chosen as can be seen on the next pages.

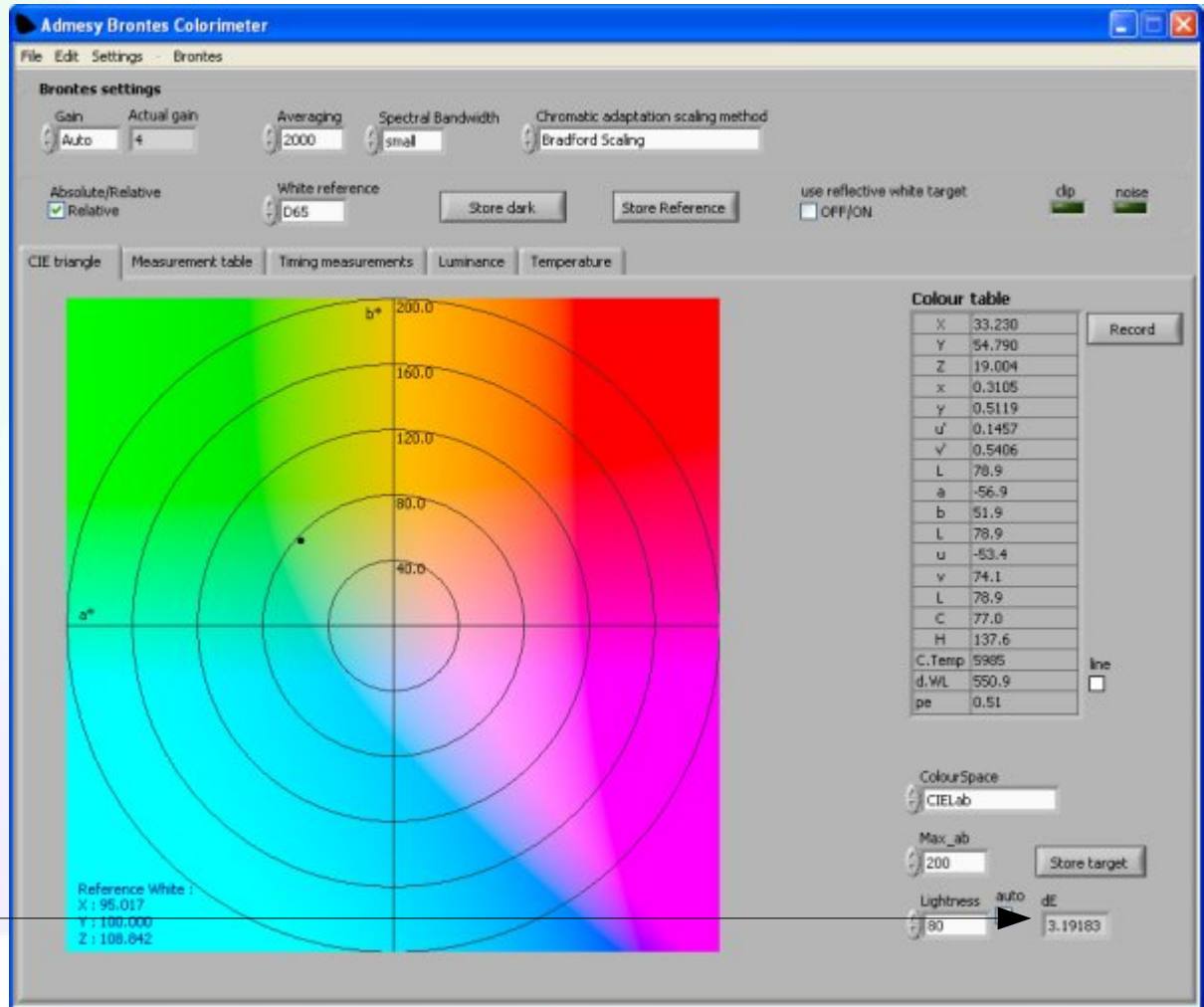
Measuring the difference between samples



Green sample selected as target. DeltaE shows a value of zero.



Green sample rotated to introduce a colour shift.



DeltaE shows a value of 3.19 indicating a difference in colour between the previously measured colour target.

The dE value is quite suitable to measure if there is a difference in either L, a or b or all of them.

It is also possible to just focus on colour (a,b) or just one parameter (a or b) to measure differences.

Values for L,a,b can be seen in the colour table in the screen shots on the previous pages.

Measuring colour differences like in the previous sheets work well for :

- Transmissive measurement of glass or plastic/paper sheets.
- Transmissive measurement of liquids.