AGROCOLOR®

Colorimeter for fruits, vegetables and food

Agrocolor® is a colorimeter designed by Agrosta, dedicated to food business. It provides the intensity along the visible range through 6 values : Intensities at 450 (Blue), 500 (Green), 550 (Green/Yellow), 570 (Yellow), 600 (Orange) and 670 (Red)nm

We have searched the best components available on the market in order to provide a simple and accurate colorimeter for food, fruits and vegetables

We had the following requests :
- High accuracy
- Large measurement area (Large aperture) compared to colorimeters available on the market, and giving reliable measurements for varied forms, from flat to curve.
- Recording data and providing statistics, classified by batches
- Easy to interprete
- Easy to calibrate

ACCURACY :

The sensor provides a 40nm of full-width half-max detection, and covers all the visible area - The sensor comes with 6 phototransistors, each having a sensitivity in a specific spectrum, according the the graph on the right
- The light is a white LED with a large spectrum on all visible area

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MEASUREMENT OF LARGE AREAS :

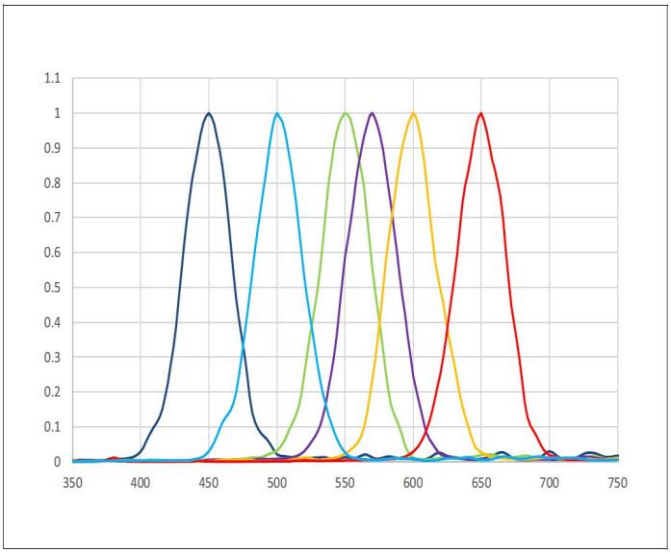
The sensors available on the market were giving values of color while measuring a very small surface of the sample. We think this is not adapted for food, nor any fruit or vegetables, as this kind of products present large variations within the same sample.

For a fruit for example, the controller prefers to obtain a global value on a large surface than a value on one small point, that can be a bad indication of global fruit color.

The area measured by our colorimeter corresponds to a circle of 10 mm diameter.

Thanks to a plano-convex lens, the distance to the sample has a lower incidence than with other colorimeters, which is better for fruits or vegetables curved at the surface (And with various curves)

Range of measurement of each of the six phototransistors inside the sensor : The visible range is covered



Color	Wavelength
violet	380–450 nm
blue	450–495 nm
green	495–570 nm
yellow	570–590 nm
orange	590–620 nm
red	620–750 nm

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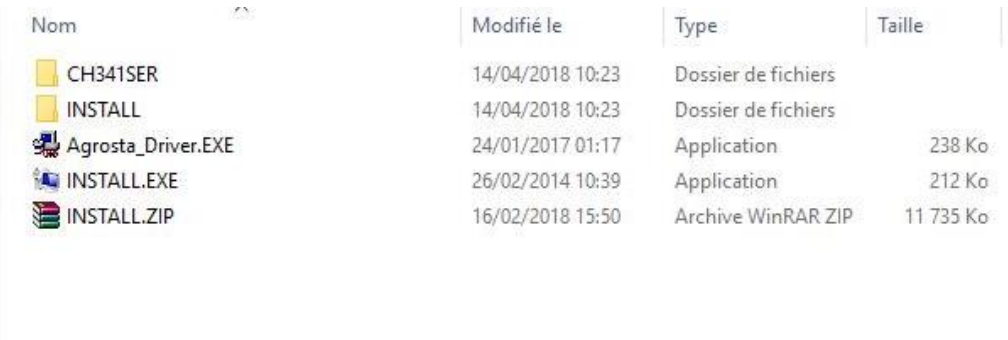
1/ INSTALL DRIVER

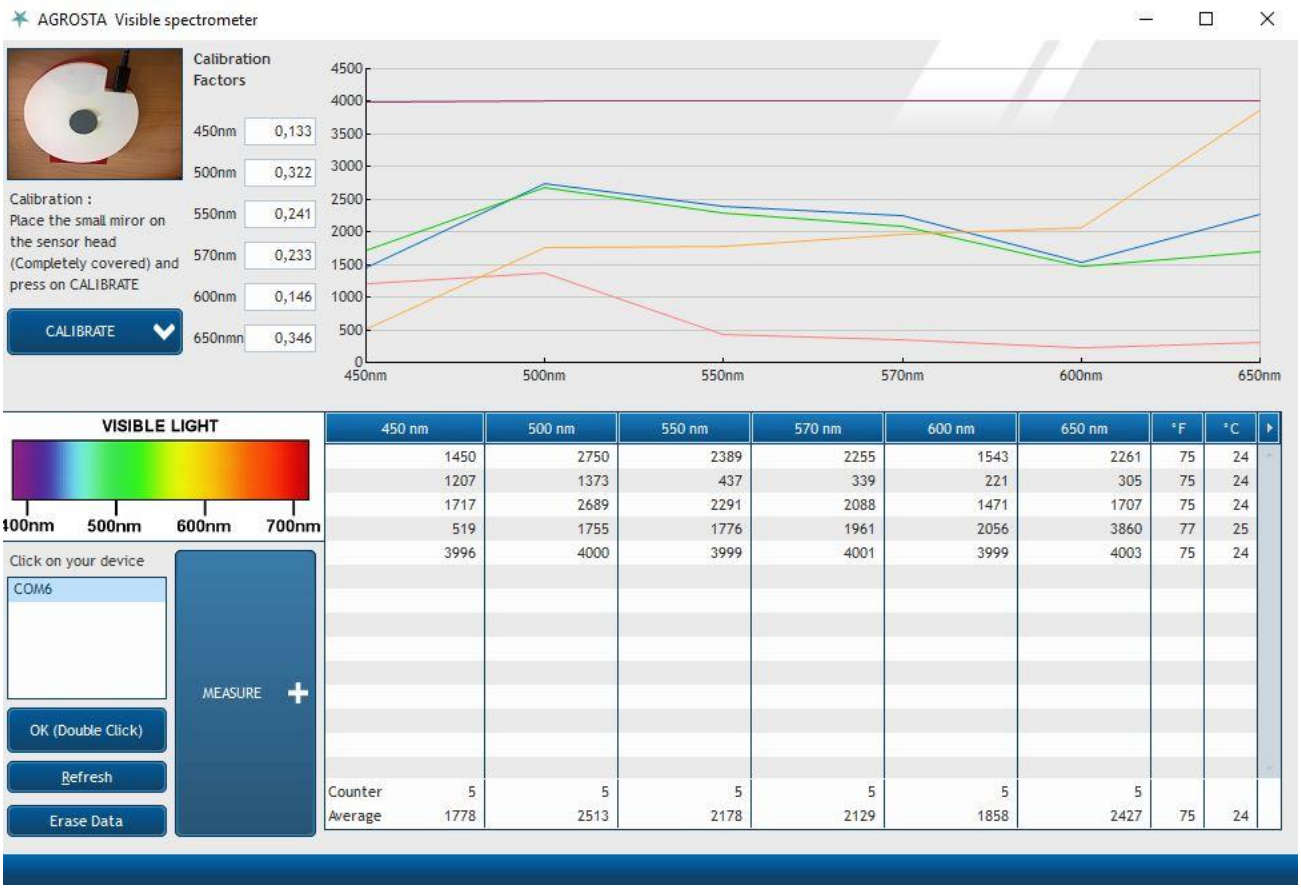


Double click on “Agrosta_Driver” – Follow setup procedure

2/ CONNECT THE USB PLUG OF THE COLORIMETER TO YOUR COMPUTER, WAIT 1 MINUTE

3/ DOUBLE CLICK ON “INSTALL” AND FOLLOW SETUP PROCEDURE

4/ THE SOFTWARE STARTS



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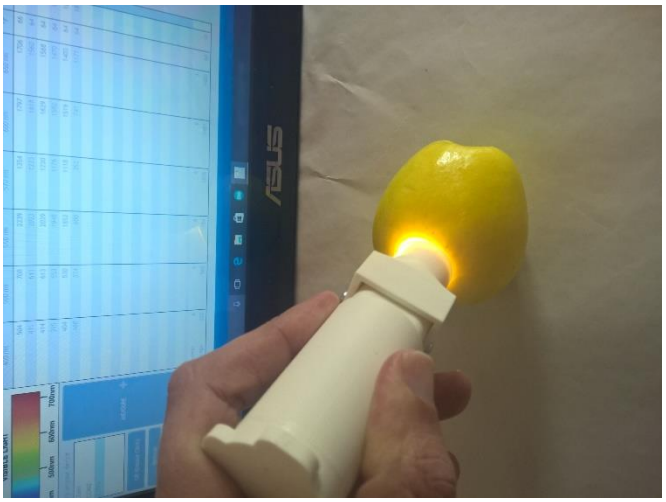
5/ SELECT THE COM PORT CORRESPONDING TO YOUR DEVICE

6/ DOUBLE CLICK ON “OK”

7/ PRESS THE SENSOR HEAD ON THE SMALL CALIBRATION MIROR AND CLICK ON “CALIBRATE”

8/ YOU CAN MEASURE YOUR SAMPLES ONE AFTER EACH OTHER BY CLICKING ON “MEASURE”



9/ EXPORT DATA TO EXCEL / WORD BY CLICKING ON THE CHART WITH THE RIGHT BUTTON OF YOUR MOUSE
EXPORT GRAPH AS WELL BY CLICKING ON IT WITH RIGHT BUTTON