



HYDRRA

FOR LIQUIDS

WHAT IS IT

HYDRA FOR LIQUIDS IS AN INNOVATIVE ABSORPTION SPECTROMETER THAT OPERATES IN THE FIELD OF VISIBLE LIGHT, EQUIPPED WITH INTELLIGENCE AND ARTIFICIAL VISION. IT IS STRUCTURED TO CONTROL LIQUIDS OF DIFFERENT NATURE AND MONITOR THE STABILITY OF THE LIQUID OVER TIME.

THIS VERSION OF HYDRA HAS REDUCED DIMENSIONS AND REDUCED WEIGHT, THEREFORE, IT IS CONSIDERED A PORTABLE DEVICE. THE ANALYSIS IS VERY FAST: IN A FEW SECONDS YOU CAN HAVE AN ANALYSIS THAT DETERMINES THE REAL STATE OF YOUR LIQUID.

WHAT LIQUIDS



WATER

Duty Cycle | Standard Deviation | Pearson Correlation | BOD5 | COD | TSS | BOD5:COD



WINE

Duty Cycle | Standard Dev. | Pearson Correlation | pH | Volatile Acidity | Sugar | Alcohol | Red 420/520/620 nm | Color Intensity | Color Tonality



SPIRITS

Duty Cycle | Standard Dev. | Pearson Correlation | pH | Sugar | Alcohol | Color Intensity | Color Tonality | Adulterants



MILK

Duty Cycle | Standard Dev. | Pearson Correlation | Fat | Crude Proteins | Lactose



COOKING OIL

Duty Cycle | Standard Dev. | Pearson Correlation | Chlorophyll | Oleic Acid | Color | Rancidity | Oxidation | Adulterants



JUICE

Analyzed values depend of the type of juice you want to analyze (i.e. in tomato juice we can analyze acidity, lycopene, etc.)



COFFEE

Duty Cycle | Standard Deviation | Pearson Correlation | pH | Acidity | Color Intensity | Color Tonality | Adulterants



BENZINA

It is customized for the oil you want to analyze: Petrol | Diesel | Ethanol | Biodiesel | etc.

SOFTWARE

THE SOFTWARE IS DIVIDED INTO 2 PARTS: ONBOARD (GNU\LINUX), IT CONTAINS THE DECODING OF THE SPECTRUM AND THE INSTRUCTIONS TO GUIDE THE MACHINE PARAMETERS; ON A PC (WINDOWS, LOCAL/CLOUD PLATFORM) OR ON AN ANDROID SMARTPHONE, IT CONTAINS THE LOGICAL ANALYSIS OF THE CURVES AND THE DEDUCTIVE LEVEL OF THE OPERATIONS TO BE PERFORMED.

HOW DOES IT WORK

TO START THE ANALYSIS FROM YOUR SMARTPHONE OR PC, THESE THREE SIMPLE STEPS MUST BE FOLLOWED:

STEP 1: TURN ON THE DEVICE WITH A BUTTON.

STEP 2: INSERT THE CUVETTE INTO A SLOT.

STEP 3: START THE ANALYSIS FROM YOUR SMARTPHONE OR PC.

