



# NIT – TF38 Olive Analyzer

NIT- TF38 Olive Analyzer condenses all our experience in a cost-effective analyzer that gives you what you need to perform your ripening, reception, and manufacturing analysis and controls (pomace), designed to measure moisture, fat and acidity of olives.

NIT- TF38 Olive Analyzer works by near-infrared transmission, scanning from 720 to 1100 nm using a Diode Array spectrometer.



## Tested Accuracy

The calibrations have been developed with the latest mathematical algorithms by our chemometrics department by providing daily samples and contrasted with the official Soxhlet method. This allows us to offer a personalized service, adapted to the needs of each client.

We can create, adapt or customize calibrations.

## Reliable daily analysis

To develop the calibrations contained in the NIT- TF38, we used olives and pomace from all over Spain, Portugal, Chile, Argentina, Peru, Morocco, etc. This has made possible for us to have a large database. This large database of all possible olive varieties and in all the possible conditions in the case of pomace, allows us to be able to use our equipment anywhere and at the same time of installation, just by making small adjustments to adapt it to the area and to the customer's processing needs.

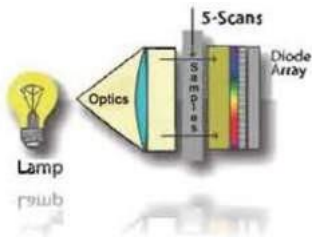
The calibrations have been validated by hundreds of satisfied users worldwide.





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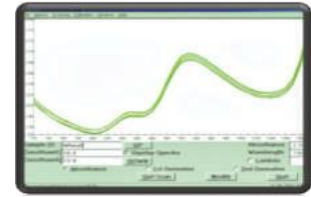
## TRANSMISSION TECHNOLOGY (NIT)



Another advantage of the new NIT- TF38 is the use of the transmission technique whereby light passes through the sample (Transmission) instead of being reflected (Refractance).

The advantage of working in Transmission is that more information and more precision are obtained. Furthermore, this technology avoids the very common problem of the sample oxidation, which limits its handling time. It also avoids the need to perfectly smooth the surface of the sample when placing it in the capsule, that is another cause of errors.

The new NIT-TF38 performs 5 measurements in TRANSMISSION presenting the average in seconds.



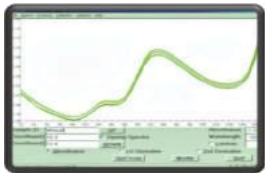
## INTEGRATED PC

The new NIT- TF38 Olive Analyzer consists of an integrated PC with Windows 10 and a very user friendly touch screen.

## CONTINUOUS SPECTRUM DIODE ARRAY



It is the most advanced technology in relation to NIR detection, the diode array measures all wavelengths at once, with no moving parts.



The diode allows to obtain a continuous spectrum, this is one of the reasons why the new NIT- TF38 is the fastest and most accurate instrument on the market. It performs 5 measurements and provides the average in only 30 seconds. This is because it works like a CCD digital camera, the difference being that it captures the wavelengths of the infrared spectrum.



## HOLOGRAPHIC MONOCHROMATOR

The holographic monochromator converts the white light of the lamp into the infrared spectrum. In the same way the Array Diode acts all at once, converting all the light that reaches it into the NIR spectrum, without the need of moving parts. The holographic monochromator is that part of the instrument that enables the Diode Array's work.