

## Olivia Pro™

In-line process analysis in the olive industry



ANALYTICS BEYOND MEASURE

Olivia Pro™ increases profit in olive oil production with continuous analysis of the pomace, directly in the process line without bypass.

### Streamline your olive oil production with in-line analysis

Take full control of your production with a continuous flow of real-time results of the olive pomace. Optimise the extraction from the first pressing, run production consistently, get closer to target specifications and make timely adjustments to your decanter.

### Increase your profits from day one

Profit opportunities are waiting to be found in your milling process. For instance, more accurate control of fat as well as moisture and fat in dry matter content in the pomace can increase earnings significantly. At the same time, better extraction at first milling provides new pricing options, reduces rework and helps to optimise the mass-balance.

### Improve your business with accurate control

The continuous flow of results provides full traceability, alerts if your process is out of spec and enables quick amendment of the milling conditions. This allows you to achieve maximum performance with a high quality product that meets the demands of your customers.

#### Product type

Olive pomace

#### Parameters

Fat, moisture, fat in dry matter

#### Technology

High resolution NIR diode array (DDA) technology with a lateral transmittance interface connected directly to the decanter

#### Installation

At the decanter

# Specifications

Light source lifetime	Dual lamp system = 12,000 hour average lamp time
Software package	ISIScan™ Nova for instrument control
Wavelength accuracy	0.5 nm
Wavelength precision	< 0.02 nm
Wavelength stability	< 0.01 nm/°C
Noise	< 60 micro AU
Random vibrations	0.4 grms at 10 – 150 Hz according to IEC 60068-2-64 0.4 grms at 10 – 1250 Hz according to FOSS internal standard (more information available on request)
Temperature	-5 – 40°C (23 – 104°F). With purge -5 – 65°C (23 – 149°F)
Purge air	Flow rate minimum 5 l/min, > 99.9% water free, > 99.9% free of oil and fine particles down to 0.3µm
Ambient humidity	10 – 90 % relative
Dimensions	(w × h × d): 42 × 42 × 13.5 cm (16.5 × 16.5 × 5.3 inches) + brackets to hold the unit
Weight	25 kg / 55 lbs
Cabinet	1.5 mm (lid 2.5mm) Stainless steel EN 1.4301 (SS2333)
Protection	IP69K <sup>1</sup> according to IEC 60529 and DIN 40050 part 9, NT ELEC 023
Communication	KepServerEX (Ethernet, OPC 4-20 mA, Profibus/Profinet) to PLC/SCADA; FossManager™
Power supply	Recommended isolated or conditioned line power 100 – 240 VAC, 50 – 60 Hz, 2.0 A, 150W

1) IP69K is the highest protection for dust entering the unit. IP69K means protected against the effect of high-pressure water and/or steam cleaning at high temperature.

<b>ProFoss Transmittance</b>	
Analysis time	Average time per result 15 - 30 seconds
Measurement mode	Transmittance (Lateral transmittance)
Wavelength range	850 – 1050 nm
Detector	Si Diode array
Spectral dispersion	1.0 nm / pixel