

## Put the Lab in your Hand

Detect the **UNIQUE** optical signature of Olnica taggants and ensure the most secure authentication of your products



Olnica Pocket Lab works seamlessly with Olnica molecular taggant and software

Light weight and portable, the Olnica Pocket Lab is a powerful authentication device fitting into the palm of your hand.

It connects via Bluetooth to any Smartphone, then using the Olnica apps you can authenticate the products or check dilution levels in seconds.

Olnica Pocket Lab is a handheld spectrometer on LiPo battery, communicating with Bluetooth 5.0 BLE, especially designed for Olnica technologies authentication.

Using spectrometry analysis coupled with Olnica algorithms ensures automatic authentication of Olnica technologies embedded into your product.



Perform automated checks in your plants and supply chain or carry out manual checks anywhere

To order  
contact@olnica.com



## Technical Specifications

### SPECTROMETER

<b>Sensor</b>	Monochromatic CMOS 1280 x 5,4 µm (pixel size)
<b>Bandwidth</b>	380 – 720 nm
<b>Spectral resolution</b>	1,5 nm (FWHM)
<b>Slit</b>	25 µm
<b>Grating</b>	600 lines/mm 500 nm blaze

### POWER

<b>Battery</b>	3,7 V DC - 1000 mAh approx. 10 hrs in stand-by
<b>Input for charge</b>	USB-C 3,6 - 5,0 V DC /1,1 A

### PHYSICAL

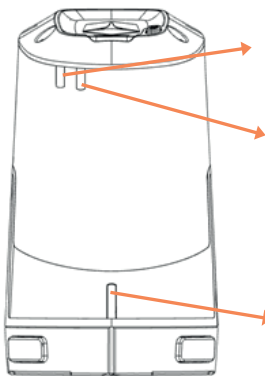
<b>Weight</b>	125 g
<b>Dimension</b>	90 x 54 x 53 mm
<b>Light source (LED)</b>	UVA (375 nm) UVB (300 nm)

### SOFTWARE

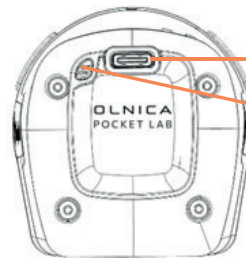
<b>Smartphone App</b>	Olnica Authenticate (iOS and Android)
<b>Calibration</b>	HgAr Lamp & Olnica Taggants
<b>Standard deviation</b>	$\Delta\lambda < \pm 0,4$ nm

### ENVIRONMENTAL CONDITIONS

<b>Temperature</b>	0 to +30°C (operating) -10 to +40°C (storage)
<b>Humidity</b>	< 90 %RH, non-condensing

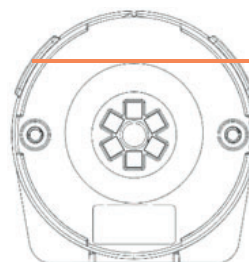


- LED 1:  
Orange - Charging
- LED 2:  
Red to Orange  
(depending on charge)  
– BLE paired
- LED 3:  
Green - ON, Stand-by  
Orange - ON, Measuring



- USB Connector
- Power On / Off

All LED turned Off - OFF



- UVB Button
- UVA Button

