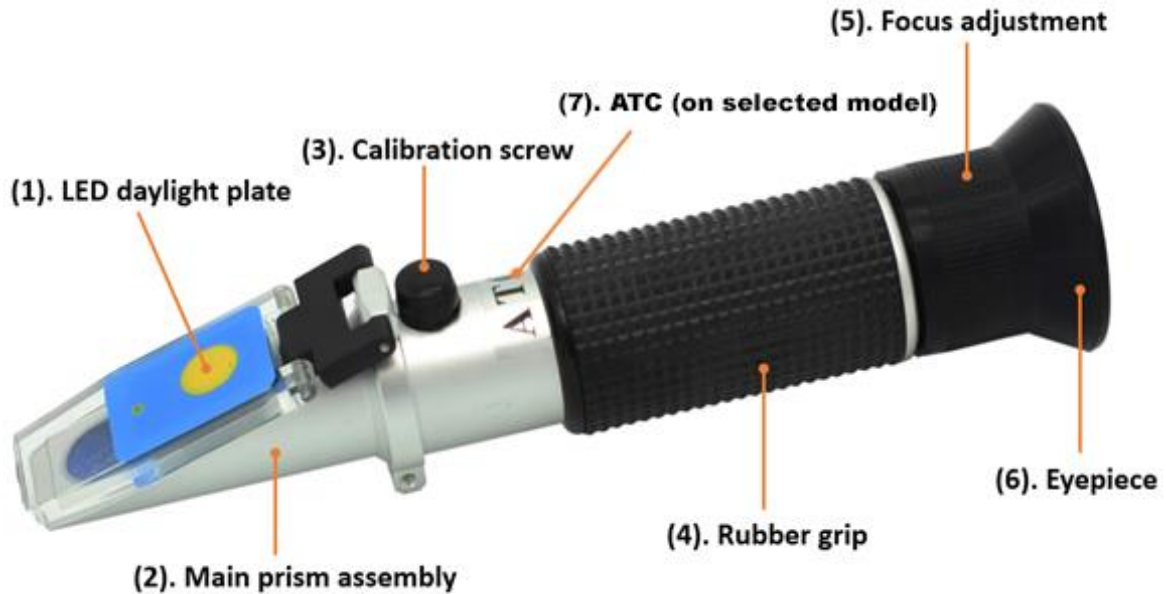


## Operation Manual

### For Hand Held Refractometer



### Feature

1. Easy to focus and calibrate.
2. Uses ambient light only which means battery or power source is not required.
3. Cushioned with soft & comfortable non-slip rubber.
4. With ATC function (ATC Compensation Range: 10°C~30°C (50°F~86°F) - on selected models.
5. Durable and built to last long.

### Calibration Procedure

1. Begin the calibration of your refractometer by lifting up the daylight plate and placing 2-3 drops of distilled water on top of the prism assembly. Close the daylight plate so the water spreads across the entire surface of the prism without any air bubbles or dry spots.
2. Hold the refractometer in the direction of a natural light source and look into the eyepiece. You will see a circular field with graduations down the center. You may have to focus the eyepiece to clearly see the graduations.



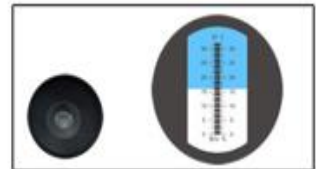
3. Remove cap from adjustment screw, adjust the line between blue (top) and white (bottom) until the dividing line is even with the zero line at the bottom of the scale.



4. Replace protective cap on adjustment screw.

## Usage Instructions

1. Open daylight plate, clean the instrument using a soft, damp cloth.
2. Place 2-3 drops of sample on the main prism.
3. Hold daylight plate in the direction of a light source.
4. Turn the focus adjustment.
5. Take the reading where the boundary line of blue and white cross the graduated scale.



## Package List

- |                             |                      |            |
|-----------------------------|----------------------|------------|
| 1x Refractometer            | 1x Mini-screw driver | 1x Pipette |
| 1x Protective carrying case | 1x Manual            |            |

## Warning&Maintenance

1. Accurate measurement depends on careful calibration. The prism and sample must be at the same temperature for accurate results.
2. Do not expose the instrument to damp working conditions, and do not immerse the instrument in water. If the instrument becomes foggy, water has entered the body. Call a qualified service technician or contact your dealer.
3. Do not measure abrasive or corrosive chemicals with this instrument.
4. Clean the instrument between each measurement using a soft, damp cloth. Failure to clean the prism on a regular basis will lead to inaccurate results and damage to the prism's coating.
5. This is an optical instrument. It requires careful handling and storage. Failure to do so can result in damage to the optical components and its basic structure.

## OPTIKA S.R.L.

Via Rigla 30, Ponteranica (BG) - ITALY  
Tel.: +39 035571392 - Fax: + 39 035571435