

Rudolph Research Contact Lens Refractometer



Designed for measurement of contact lenses both hard and soft as well as accurately checking saline solutions.

The J457CLR offers:

Reproducible pressure measurement

Soft contact lenses will change refractive index if solution is pressed out of the matrix. By using a light, but repeatable, amount of pressure the J457CLR improves the reproducibility.

Easy Loading

Soft contact lenses are easy to tear and hard to position correctly. The J457 positions the loading low and directly in front of the operator making it easy to position the lens with the hands in a supported position.

Soft Positioning

The J457 has a soft positioning device that gently lowers the contact lens into the measuring position and minimizes changes due to compression.

Variable Pressure

An adjustable weight system allows a user to choose the amount of pressure to put on the contact lens and then put that same amount of pressure on every time.

Small Measuring Spot (MIO)

A conventional J457 measures along a strip a few mm long. An application like a contact lens in saline where there are different refractive indices requires a much smaller measuring spot, The MIO optics uses a different focusing system to create that smaller spot.

J457CLR Specifications

The J457CLR is based on the standard J457FC-EP as described in technical bulletin 930 all specifications such as size, accuracy against a standard etc. from that technical bulletin apply except for the following.

- The instrument uses the minimum illumination (MIO) optics.
- The instrument is supplied with a holder for contact lenses.

J457CLR Models

The instrument is available in two versions:

- FC model comes with a Rudolph supplied display, nothing needs to be added, the user simply removes it from the box and connects to power. If the user wants transfer results to a PC they can but they do not have to.
- CB model comes with a USB connection cable and software ready to be connected to a user supplied PC. All results are automatically saved on that PC.

