



Technology for Life Science

DRY EYE MONITOR

KOWA **DR-1 α** ™

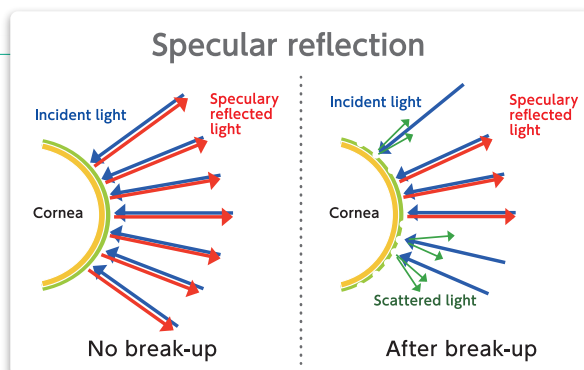
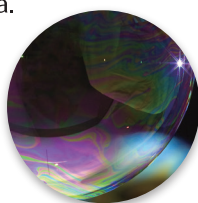


KOWA DR-1 α Video Interferometer

A New Diagnostic Tool for Dry Eye

Principle

The tear film is a thin layer of approximately 100 nm thick. Irradiation of white light on the tear film surface, several interference patterns appear by difference in two specular reflection light paths obtained between the surface and the back of the lipid layer. Also, advanced optical system designed for the shape of the cornea makes it possible to observe the interference image in a wide area. In addition, by the principle of specular reflection, the break-up of the tear film can be observed in a non-invasive manner.

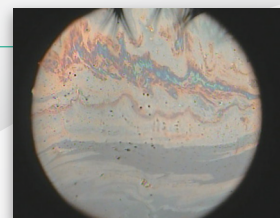


Colorful patterns on a soap bubble appear under the same principle.

Features

Observation of the tear film by light interference imaging

The KOWA DR-1 α enables you to observe changes in the interference color patterns spreading on the lipid layer and the break-up of the tear film. Also you can observe the tear film on contact lenses.

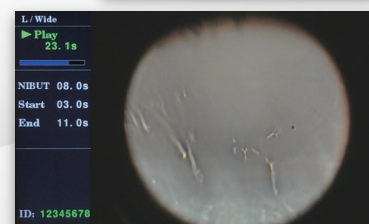


Measuring Non-Invasive Break-up Time (NIBUT)

The KOWA DR-1 α enables you to measure NIBUT in a simple operation.

Data output is simple

Data can be transferred to the specified folder on the network.



Specifications

Taking image range	Wide: $\phi 8.0 \times 7.2$ (H) mm Narrow: 3.4 (W) $\times 2.5$ (H) mm
Light source	White LED
Working distance	27 mm
Monitor	7 inch wide-screen LCD
Adjustment range	Forward/Backward: 40 mm Leftward/Rightward: 94 mm Upward/Downward: 30 mm

Chin rest adjustment range	60 mm
Interface	LAN: Video image, Still image USB: Barcode reader, Numeric keypad
Energy saving mode	As standard
Power supply	Input: AC100-240 V 50/60 Hz Power consumption: 70 VA
Dimensions	290 (W) \times 365 (D) \times 455 (H) mm
Weight	14 kg

Images in the LCD monitor are compositions.
Specifications and appearances are subject to change without notice.

CE
Distribution name : KOWA DR-1 α



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