

RM21™: Köhler Illumination

Highlights

- ▶ Fully compatible with RM21™ microscope
- ▶ Long working distance (>30mm) for use with live cell chambers
- ▶ Independent control of intensity and numerical aperture (NA)
- ▶ Simple setup and alignment



Köhler illumination tower mounted to a breadboard



Köhler illumination tower on a RM21™ microscope with Nano-LPS nanopositioner.

Product Description

A typical application of the RM21™ microscope is live cell imaging and transmitted light microscopy. A standard option available with the RM21™ is the Köhler illumination tower, which provides a simple yet flexible solution for delivering even illumination to the sample. The Köhler illumination tower is designed for ease of use and alignment while providing a long working

distance for use with live cell imaging. The Köhler illumination tower provides independent control of the illumination intensity and the numerical aperture (NA). The addition of the Köhler illumination tower along with our TIRF microscopy options makes the RM21™ an excellent instrument for single molecule microscopy offering versatility and stability.

Technical Specifications

Range of motion (XY) ± 2mm
 Range of motion (Z) 50 mm
 N.A range up to 0.3
 Objective lens compatibility 40x - 100x
 Axial intensity (max) 30 lm
 Intensity control.....Front panel dial
 Controller power..... 12V/3.0A

RM21™ Models available

All models available in imperial (-I) or metric (-M).
 Supported lens threads: RMS, M25, M26, M27, M32
 Side breadboards compatible with SM1/30mm/60mm cage systems

Nano-Cyte® compatible model

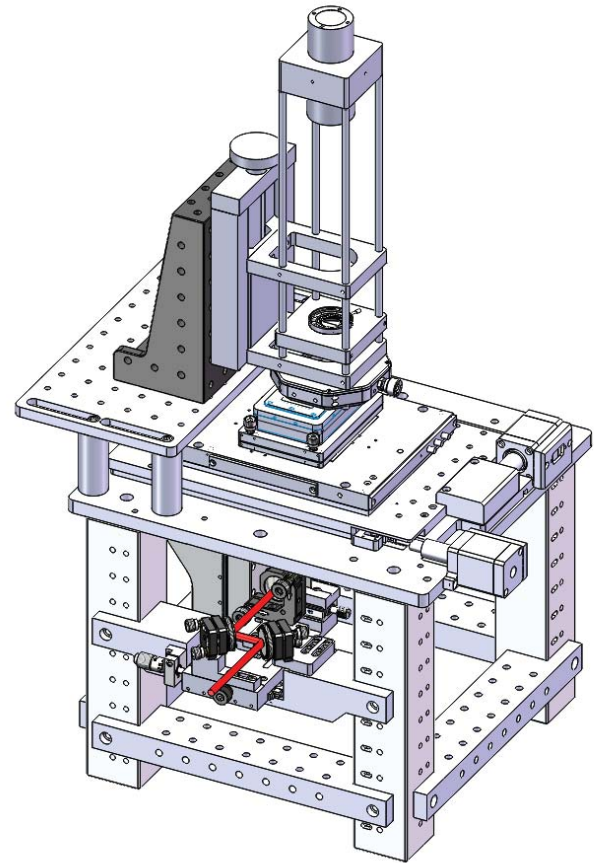
- Model: RM21-NC-(thread)-I/M

Available options

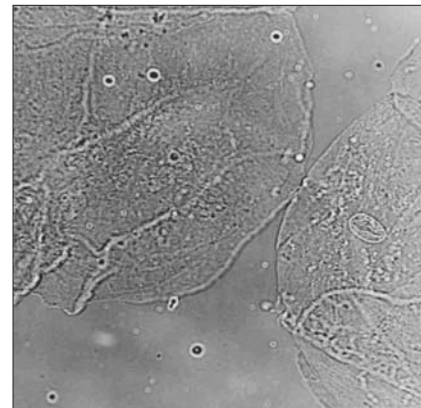
- 20nm optical encoders added to a specified axis
- Köhler Illumination
- TIRF Module
- TIRF Lock

Custom options

Fixed objective (-FZ). Please consult with our applications engineers prior to ordering.



RM21-AZ-AXY model with Köhler illumination and TIRF module installed.



Human cheek cells 60µm × 60µm
 Köhler illumination, 60x 1.49 N.A. oil immersion objective lens

Model ordering

