Leica DM IL LED Series Inverted Microscopes

Optical performance and illumination are key elements in microscopy. The Leica DM IL LED is not only equipped with outstanding Leica HC optics, but also features innovative LED illumination. The transmitted light illuminator including optimised condensers and improved contrast methods are adapted specifically for cell biology applications. High stability, plenty of space for operation, large working distances, illumination without heat development and the separately accommodated electronics provide optimum conditions for microscopy. The Leica DM IL LED is exceptionally well suited for uses ranging from various cell and tissue culture examinations in life sciences, developmental biology studies or micromanipulation in cell biology to living cell examinations in transgenics or electrophysiology.

The fluorescence version, the Leica DM IL LED Fluo, also offers a variety of possible applications. Heatable microscope stages and 3 plate cross stages provide great flexibility for experiments on living cells under physiological conditions.

The Leica DM IL LED is the first inverted routine microscope with LED illumination for the transmitted light method. The compact illumination unit includes a precentred light emitting diode that has a service life of 50000 hours.

The LED, with a service life at least 250 times longer than that of conventional halogen lamps, is easy to maintain and very cost effective. The 10W power of the LED is completely converted into light while maintaining uniform colour temperature. No unwanted heat is generated. Optionally, users can activate the integrated automatic shut off – an additional contribution to energy savings.

In particular the phase contrast and IMC are optimised by the warm hue of the LED. With the help of the attachable filter, the illumination impression can be individually adapted in both directions of the colour spectrum. The integrated collector attains optimum light utilisation and the integrated aperture diaphragm creates optimum contrast and resolution for every specimen and every objective.

Leica DM IL LED System 1 – Brightfield
Leica DM IL LED, the object guide for Leica DM IL with an adjustment range (xy) of 128 x 83mm accepts all the different inserts from a current range. A special clamping device at the surface of the object guide ensures a precise fixing of each part of the range of holders. The ergonomic, low lying coaxial control drive is extremely accurate and sensitive. Object guide can be easily adapted to the left or right of any of the fixed work stages (also heating stages). Binocular tube HC ILB, EYEPIECE HC PLAN 10x/20 BR, EYEPIECE HC PLAN 10x/20 BR. M, Condenser S40/0.45, Objective HI PLAN 4x/0.10.

Leica DM IL LED System 2 – Brightfield/Phase Contrast
As per Leica DM IL LED System 1 – brightfield plus slider for light rings S40 complete, objective HI PLAN 4x/0.10. Free working distance: 18.0mm. For use with and without cover glass, objective HI PLAN I 10x/0.22 PH1. Free working distance: 7.8mm. For use with and without cover glass suitable for phase contrast, not for incident light, except fluorescence, objective HI PLAN I 20x/0.30 PH1. Free working distance: 3.7 – 2.4mm. Cover glass suitable for phase contrast, not for incident light, except fluorescence, objective HI PLAN I 40x/0.50 PH2. Free working distance: 2.0mm. Cover glass: 1.1. Suitable for phase contrast, not for incident light, except fluorescence, dust cover for stand without camera attachment.

Leica DM IL LED System 3 – Brightfield with Trinocular Tube
This system has the same specification as System 1 (MIC5250) except that it has a trinocular tube.

Leica DM IL LED System 4 – Brightfield/Phase Contrast with Trinocular Tube
This system has the same specification as System 2 (MIC5252) except that it has a trinocular tube.

Leica DM IL LED System 5 – Brightfield/Phase Contrast/Fluorescence with Trinocular Tube
This system has the same specification as System 4 (MIC5256) but equipped with a fluorescence axis and a 3 position slider.

Code	Description	Price
MIC5250	System 1 - brightfield	**£5317.00**
MIC5252	System 2 – brightfield/phase contrast	**£5841.00**
MIC5254	System 3 – brightfield with trinocular tube	**£5649.00**
MIC5256	System 4 – brightfield/phase contrast with trinocular tube	**£5890.00**
MIC5258	System 5 – brightfield/phase contrast/fluorescence with trinocular tube	**£17571.00**