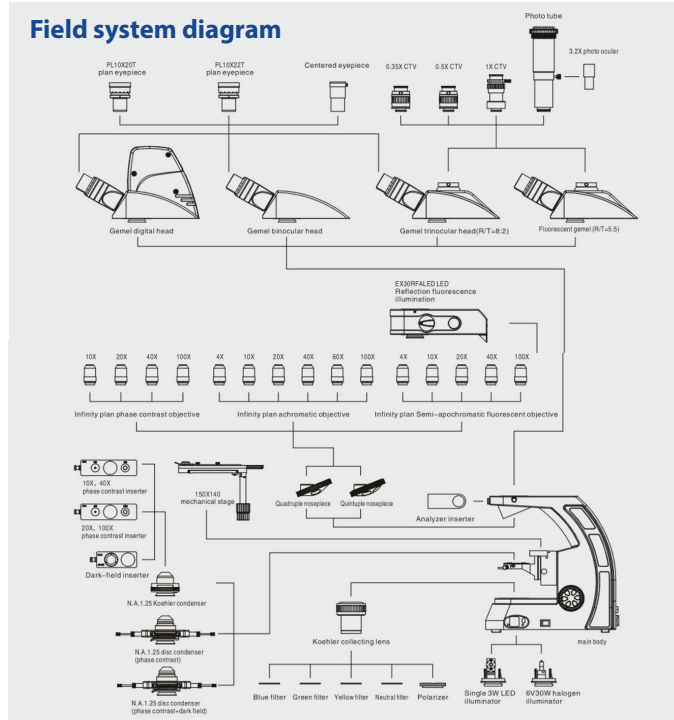


## Field system diagram



## Field specifications

Model	Field RFL-2
Optical system	Infinity corrected apochromatic and achromatic combo
Eyepiece	PL10x/22T FN22mm with individual adjustable focus
Objectives	4 Objectives, choose between: - two OIP Infinity plan achromatic (4x, 10x, 20x, 40x, 60x, 100x oil) - two top rated semi-apochromatic objectives (4x, 10x, 20x, 40x)
Viewing Head	Standard: 30° inclined Gemel Binocular, with <u>two height setting</u> Upgrade: 30° inclined Gemel Trinocular, with <u>two height setting</u> Upgrade: Vertical Incline adjustable head 30° - 60°
Nose piece	Standard: Revolving quadruple nosepiece (holds 4 objectives) Upgrade: Revolving quintuple nosepiece (holds 5 objectives)
Stage	150x140mm mechanical stage, move range 76x50mm
Condenser	N.A.1.25 Koehler illuminator condenser, including socket for dark field and phase contrast)
Focus	Coaxial focus system with tension adjustable, coarse: 30mm, fine precision: 0.002mm. Movement limitation stopper.
Illuminator	Single high brightness 3W LED with continuous brightness control Philips 6v/20W halogen bulb with continuous brightness control
Fluorescence LED modules	Single -band LED reflection illumination. Choose one of filter/band options B1/B4/ G1/V1/ UV1/UV2. Own power input, brightness adjustment with instant switching from brightfield to fluorescence.
Optional Accessories	Polarizer/analyzer, Dark-field, phase contrast, aluminium carry case with wheels, 7 hour battery, 40 hour battery, C-mount connection (1x CTV, 0.5 CTV, 0.35 CTV), photo tube connection (PK mount or MD mount), relay lens.

**llumins™ field**  
FLR-2

With effortless switching between bright field and fluorescence the Field FLR-2 offers high productivity and the best optic clarity in its class.



Llumins Optical Systems  
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Email: info@llumins.co.za



As technical improvement, manufacturer has right to make renovation in designing without notice

Llumins Optics  
have passed the certificate:  
ISO 9001  
ISO 14001  
ISO 13485

LLUMINS OPTICAL SYSTEMS **field**



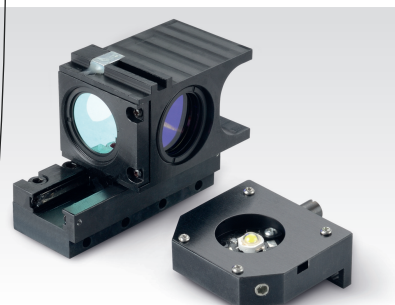
## LEADER IN ROUTINE LED FLUORESCENCE MICROSCOPY

The drive for a perfect combination of hi-end optics and productivity led to the development of a unique LED fluorescence microscope. Perfectly versatile to be used both as a powerful bright field or fluorescence microscope, the Llumins Field FLR can effortlessly switch between LED fluorescence and bright field. No longer do operators have to sit in dark secluded rooms or walk between microscopes to perform the duties often required by fluorescence microscopy. With incredible vivid imaging and a wide field of view this microscope produces exceptional results. We can confidently say that the Llumins Field can reduce costs by preventing misdiagnoses and improving production capacity in almost any environment.

The Llumins Field is unique in that it combines achromatic and semi apochromatic objectives in such way that fluorescence can even be used in a bright room. The new Llumins Infinity achromatic optical system applies semi-apochromatic system that improve the quality and contrast-ratio of the image. Therefore the image is brighter and revert the natural color with the advanced multi-coating. These objectives are made of environmentally friendly materials, leaving a smaller biological footprint.

### FLUORESCENCE ILLUMINATION WITH DC POWER SUPPLY

6V/2A, direct current power supply. Easy Connection and safe to use. By rotating the intensity control knob you can adjust the fluorescence intensity simply and easily.



### SINGLE BAND LED MODULE

The Llumins single band LED Fluorescence module is designed for easy and convenient fluorescence microscopy. Multiple LED modules are available for your convenience. The LED illumination does not need preheating or cooling. It is ready on demand, saving you valuable time and improving efficiency. The stable light, low temperature, low radiation and longer life span ensure safe and efficient use.

The Kohler Illuminator maintains stable brightness and temperature even if used for prolonged periods of time. In comparison with Halogen lamps, LED has lower electricity consumption and an easy plug and play LED circuit board offers a fast and easy replacement of the bulb. The LED light source is used for both fluorescence as well as bright field.



### SUPERB OBJECTIVES ALLOWS ABOVE AVERAGE IMAGING

A new generation of professional infinity plan semi-apochromatic fluorescence lenses with high numerical aperture, which is 25% higher than ordinary plan objective lenses, can excite the sample with brighter light and make a substantial increase in image resolution and clarity.

## Dark-field Observation

By simply inserting the dark-field spill into the condenser socket and pull the dark-field diaphragm in, simple dark-field observation becomes available. You can observe blood, flagellum, Treponema pallidum in dark-field between 4x – 40x without a special dark-field condenser.

## Polarizing observation

By using the simple polarizing set, crystals, talc, amyloid etc can be observed with ease. This is done by simply inserting the polarizer into the condenser and sliding the analyzer into the viewing tube socket.

## Phase Contrast

Phase contrast observation is accomplished by inserting the phase contrast flashboard into the condenser socket and replacing the objectives with phase contrast objectives. There are two kinds of simple dark field flash boards. SL1 – for 10x and 40x objectives SL2 – for 20x and 100x objectives A disc phase contrast condenser is available for using multiple magnifications

LLUMINS OPTICAL SYSTEMS field



**TWO POWERFUL MICROSCOPES, ONE SMART PACKAGE**  
EFFORTLESS AND FAST SWITCHING FROM BRIGHT-FIELD TO FLUORESCENCE