

## LDB100F Brightfield LED

LED Illumination Systems for Brightfield Microscopy with Flip-in 550 Nanometer Filter



**LDB100F Brightfield LED with flip-in 550 nanometer filter.**

Prior Scientific is proud to announce the latest addition to their wide range of illumination products for microscopy - the new LDB100F Brightfield LED. The LDB100F with 550 nanometer filter in the light path eliminates any background fluorescence. The LDB100F illuminator provides all the advantages of LED illumination in a flexible package that can be fitted to most modern upright and inverted microscope systems.

Brightfield LDB100F features:

- 10,000+ hours of operating lifetime
- <140 microseconds on/off speed using TTL
- LED simply replaces the standard lamphouse
- Internal flip in blocking filter (550 nm LP)
- Eliminates the need for transmitted light shutter
- Small controller for intensity control and on/off control
- Filter in for fluorescence applications eliminating unwanted background fluorescence
- Filter out for brightfield applications, full spectrum
- Higher power for phase contrast and DIC
- Even and constant color temperature illumination
- Powered via Prior ProScan or via stand alone power supply
- Compatible with Nikon Elements

### General Specifications:

- 10,000 hours operating lifetime
- Filter in for fluorescence applications eliminating unwanted background fluorescence
- Filter out for brightfield applications, full spectrum
- Fits most modern upright and inverted microscope systems
- Replaces standard lamphouses

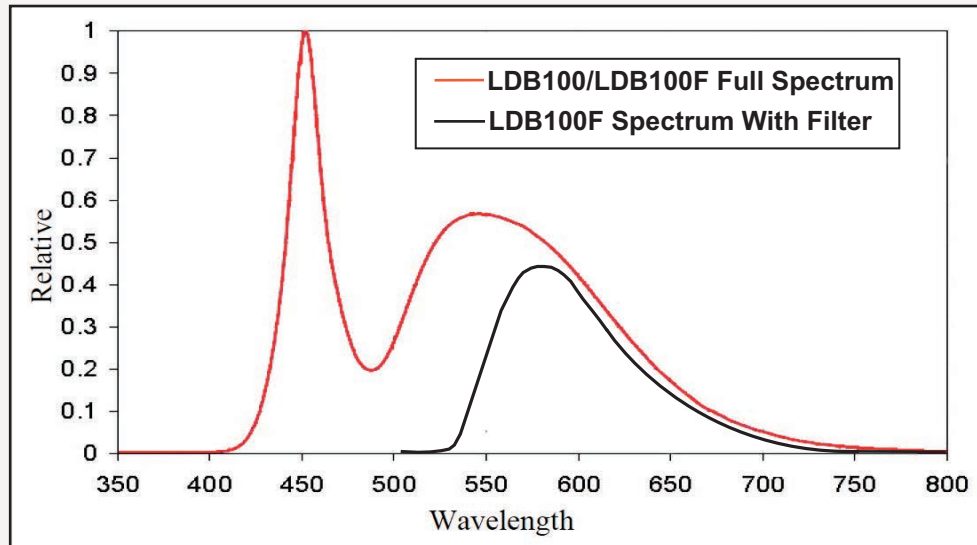
- Choose between manual intensity, TTL control or on/off which eliminates the need for shutter mechanisms
- Compatible with ProScan controllers\*
- Adapters are available for most modern microscopes
- Can be utilized as a stand alone light source
- <140 microseconds on/off speed using TTL

\*ProScan controller must have shutter output

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### Brightfield LED Performance Spectrum



### Brightfield LED Ordering Information

Part Number	Description
LDB100FLC*	Brightfield LED with flip-in 550 nanometer filter for Leica microscopes for use with Prior controller
LDB101FLC	Brightfield LED with flip-in 550 nanometer filter for Leica microscopes with stand alone power supply
LDB100FNI*	Brightfield LED with flip-in 550 nanometer filter for Nikon microscopes for use with Prior controller
LDB101FNI	Brightfield LED with flip-in 550 nanometer filter for Nikon microscopes with stand alone power supply
LDB100FHUB	Brightfield LED with flip-in 550 nanometer filter. Includes Nikon Hub integration kit
LDB100FOL*	Brightfield LED with flip-in 550 nanometer filter for Olympus microscopes for use with Prior controller
LDB101FOL	Brightfield LED with flip-in 550 nanometer filter for Olympus microscopes with stand alone power supply
LDB100FZS*	Brightfield LED with flip-in 550 nanometer filter for Zeiss microscopes for use with Prior controller
LDB101FZS	Brightfield LED with flip-in 550 nanometer filter for Zeiss microscopes with stand alone power supply

\*LDB100F units require a compatible Prior controller such as H31XYZEF/H31ZFE or OptiScan controller

### Brightfield LED Compatibility Information

Part Number	Description
H31XYZEF	ProScan III controller with X, Y, Z drives, three filter wheel drives and three shutter drives.
H31ZFE	ProScan III controller with three drives for Z focus and two or three filter wheels (includes three shutter drives).
LDBUSBTTL	USB to TTL converter. Emulates ProScan shutter only controller. Requires LDB101 model.
H31ADF	Supplementary module for H31 controller to add three additional filter wheels.
LDBNHUB	Nikon Hub integration module

### Worldwide distribution

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