

Reflected Darkfield Illuminator

RDF Illuminator & Modular Microscopy System



- + Dedicated RDF LED illumination source allows simultaneous Brightfield/Darkfield illumination or fast switching between them
- + Ten times greater object of interest detectability, at sub-micron level, over conventional RDF illumination techniques
- + Compatible with single-objective and WDI's three lens BF/DF lens changer
- + Dedicated PFABUS™ COB controller, providing power and controls for intensity, timing, and mode of operation
- + Several modes of operation including DC (Direct Current), Pulse Width Modulation (PWM) along with two external trigger modes (Pulse Follow and Pulse Trigger)

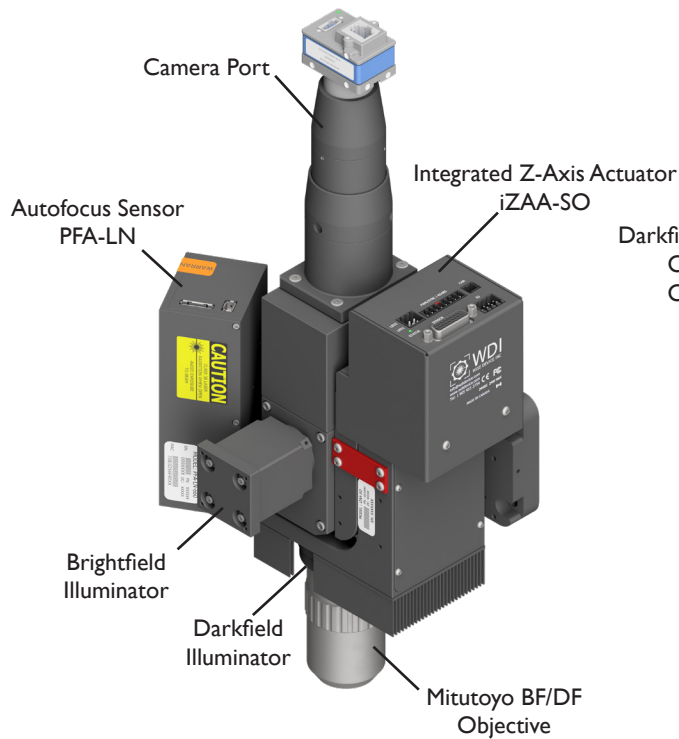


is a world leader in the design, manufacture and integration of OEM and complete microscopy automation solutions for the biomedical, metrology, electronics, semiconductor, and flat panel display markets.

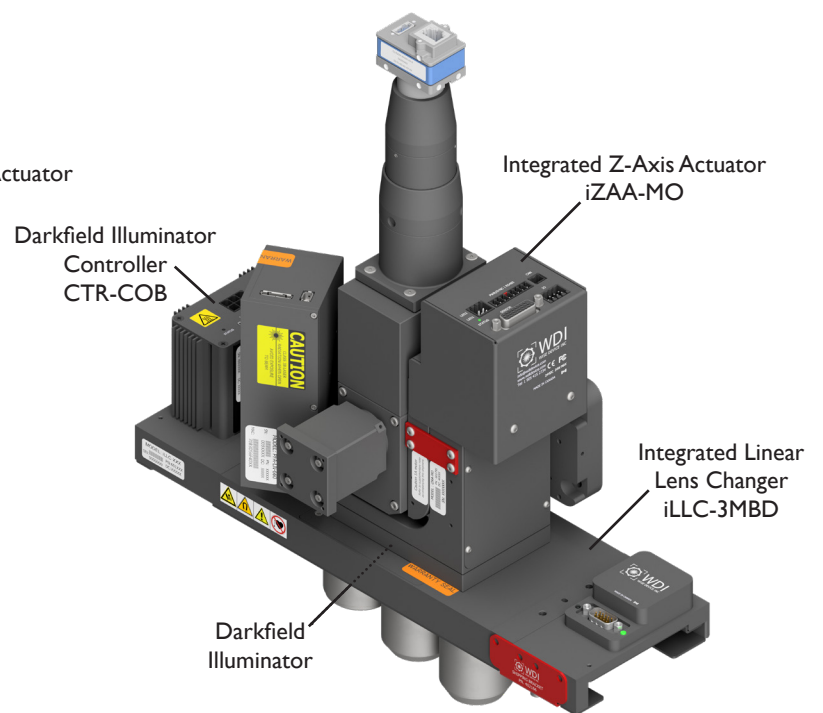
SPECIFICATIONS

Illuminator (ILL-DF)	Parameter	Value
	Radiometric Flux on Output	120 mW
	Correlated Colour Temperature	5000 K
	Optical Rise Time (30 cm Cable)	1 μ s
	Optical Fall Time (30 cm Cable)	1 μ s
	Minimum Pulse Width	10 μ s
	Trigger to Optical Pulse Latency	550 ns
	Objective Compatibility	Mitutoyo BD Plan APO
	Compliance	Clean Room Class 1000 (ISO 6)

Single-Objective System



Multi-Objective System



Lens Changer (iLLC-3MBD)	Parameter	Value
	Maximum Number of Objectives	3
	Motion Type	Direct Drive Linear Motor with 78nm Optical Encoder
	Positioning Repeatability	$\pm 0.25 \mu$ m
	Minimum Lens Change Speed	0.4 s Adjacent
	Bearings	High Precision Crossed-Roller with Anti-Creep
	Maximum Acceleration	8500 mm/s ²
	Maximum Speed	700 mm/s
Compliance	Clean Room Class 1000 (ISO 6)	



WDI is a world leader in the design, manufacture, and integration of OEM and complete microscopy automation solutions for the biomedical, metrology, electronics, semiconductor, and flat panel display markets. WDI's success lies in an innovative culture and ability to optimize and adapt our technology to customers' specific requirements by listening to their needs and gaining a deep understanding of their processes, applications and goals. WDI employs over 70 optical, electrical, mechanical and software engineers, as well as scientists, who are dedicated to servicing our customers. Contact WDI today to see how we can help solve your microscopy automation needs.



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