

DIC DIGITAL MICROSCOPE

BUILD THE SYSTEM YOU NEED

Our Differential Interference Contrast (DIC) Digital Microscope is just one example of what can be built using components featured in the Edmund Optics® catalog. Constructed using the TECHSPEC® Optical Cage System and fitted with components designed by Edmund Optics®, Mitutoyo, and other industry leading manufacturers, the microscope can be adjusted for an application's image capture requirements.

A DIC microscope can be used to enhance the contrast of object features that are otherwise difficult to observe using traditional microscopy techniques. The DIC microscope shown in our demo uses reflected light illumination to view opaque samples, and is equipped with a 1,3 MP color camera to capture low noise, high dynamic range images. A similar transmitted light DIC microscope can also be built, which illuminates the sample from below and observes it from above, (or vice versa). Typical DIC applications include characterizing standard and super-polished optical surfaces, evaluating laser damage to coatings or substrate surfaces, monitoring process defects in thin films, inspecting semiconductors and electronics, and examining unstained biological samples.

FEATURED STOCK PRODUCTS

TECHSPEC® Optical Cage System

- Limitless Customization and Adaptability
- Designed for Easy Mechanical Alignment Around a Common Optical Axis

TECHSPEC® Crossed Roller Translation Stages

- High Accuracy, Rigidity, and Load Capacity
- Configurable into Multi-Axis Arrangements

Point Grey Blackfly™ PoE GigE Camera

- Ultra-Compact Design
- Power-Over-Ethernet for Maximum Flexibility

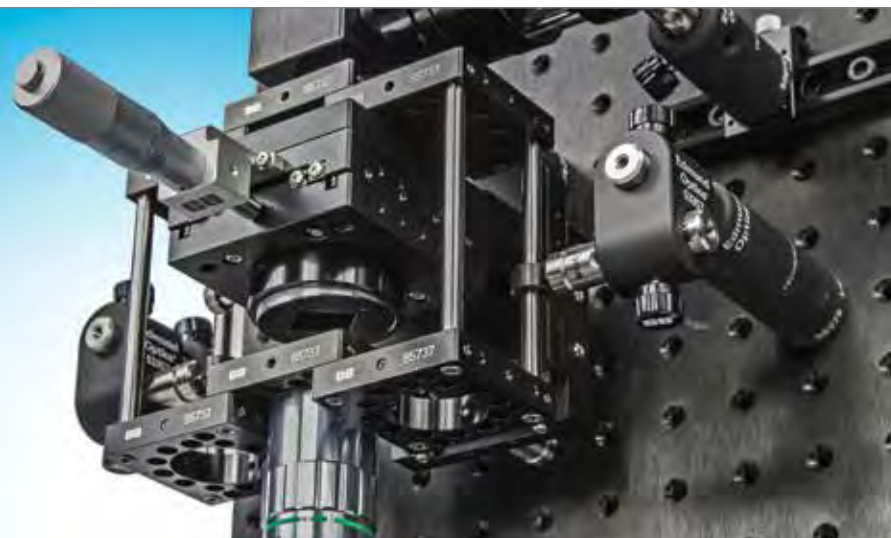
Metaphase Fiber Optic LED Illuminator

- Variable Intensity White LEDs
- Compact Footprint (6,4 x 4,1 x 6,0 inches)

READY TO BUILD YOUR OWN?



Scan here
to learn more!



FEATURED STOCK PRODUCTS

TECHSPEC® OPTICS

www.edmundoptics.eu/optics

Description	Stock Number
TECHSPEC® 25 mm VIS, Non-Polarizing Cube Beamsplitter	#47-009
TECHSPEC® 25 mm Diameter, 0,66 Numerical Aperture, VIS Coated Aspheric Lens	#49-101

TECHSPEC® TRANSLATION STAGES

www.edmundoptics.eu/stages

Description	Stock Number
TECHSPEC® 70 mm, Side Drive, Solid Top, English Extended Micrometer Stage	#66-431
TECHSPEC® 70 mm, Center Drive, Through-Hole, English Extended Micrometer Stage	#66-440
TECHSPEC® 125 mm, Side Drive, Solid Top, English Extended Micrometer Stage	#66-455
TECHSPEC® 125 mm, English Micrometer Z-Stage	#66-508
TECHSPEC® 125 mm, English Rotary Stage	#66-518

TECHSPEC® CAGE SYSTEM

www.edmundoptics.eu/cage-systems

Description	Stock Number
TECHSPEC® 30 mm Standard Cage Plate with M6 Threading for Post Mounting	#85-630
TECHSPEC® 2" Square Interface Plate	#85-737
TECHSPEC® 30 mm Cage 25/25,4 mm Diameter Thick Lens Mount	#85-588
TECHSPEC® 25 mm Cage C-Mount Adapter Plate	#87-419

MITUTOYO OBJECTIVE

www.edmundoptics.eu/objectives

Description	Stock Number
20X Mitutoyo Plan APO Infinity-Corrected Long WD Objective	#46-145

POINT GREY CAMERA

www.edmundoptics.eu/cameras

Description	Stock Number
Point Grey 1/3" Blackfly™ GigE Color Camera (BFLY-PGE-1452C-CS)	#88-047

METAPHASE ILLUMINATION

www.edmundoptics.eu/illumination

Description	Stock Number
Metaphase Fiber Optic LED Illuminator	#86-437