

# for Processing and Measurement Development Results of Optics (2001-2019)

100nm~	200nm~	300nm~	400nm~	500nm~	600nm~	700nm~	800nm~	900nm~	1000nm~
• 157nm Objective lens	• 248nm Objective lens Tube lens	• 308nm Homogenizer	• 405nm Objective lens Relay lens	• 510-560nm Inspection optics	• 633nm Condenser lens	• 798nm Light collection optics Processing optics	• 800nm Line focusing optics	• 905nm Reflection transmission optics	• 1028nm Transmission optics
• 193nm Objective lens Condenser lens Relay lens Expander	Condenser lens Relay lens Field lens Expander Cylindrical expander Cylindrical expander Homogenizer Line beam optics Image rotator	• 310-380nm Light collection optics • 343nm Transmission optics	• 408nm Objective lens Tube lens Exposure optics Laser interferomet	• 515nm Transmission optics • 527nm Exposure optics Expander Rotary attenuator Processing optics	• 660nm Microscope		• 808nm LD beamforming optics Line beam optics Processing optics Transfer optics	• 980nm Transfer optics Processing optics	• 1053nm F-theta lens Expander Rotary attenuator Processing optics
	• 257nm Transmission optics	• 350nm Expander	• 435nm Objective lens	• 532nm Condenser lens				• 810nm Repair optics	• 1064nm Objective lens Condenser lens Tube lens Collimating lens Relay lens
	• 262nm Rotary attenuator	• 351nm Objective lens Tube lens Relay lens Expander Beam homogenizer Rotary attenuator	• 488nm Relay lens Zoom lens F-theta lens Inspection optics	F-theta lens Collimator Expander					F-theta lens Expander Homogenizer Rotary attenuator Processing optics Beam shaping optics Fiber transmission optics
	• 263nm Expander			Beam shaper Beam rotator Rotary attenuator Microscope					• 1070nm Condenser lens Reducer Processing optics
	• 264nm Expander	• 355nm Objective lens Condenser lens F-theta lens Anamorphic expander Beam homogenizer Homogenizer Beam rotator Rotary attenuator Line lighting Inspection optics Illumination optics Processing optics Coupling optical system Repair optics Laser interferometer		Anamorphic optical system Annealing optical system Processing optics Interference exposure optics Inspection optics Illumination optics Peening optical system Fiber transmission optics Repair optics					• 1080nm F-theta lens • 1090nm Processing optics
	• 266nm Objective lens Relay lens Zoom lens F-theta lens Expander Zoom expander Cylindrical expander Cylindrical zoom expander Anamorphic expander Anamorphic condensing optics Homogenizer Beam shaping optics Line lighting Rotary attenuator Inspection optics Illumination optics Processing optics Laser interferometer								• 12um Objective lens • 13-15um Objective lens • 1535nm Condenser lens
• 270-300nm Projection lens		• 365nm Objective lens Relay lens Exposure lens Inspection optics Laser interferometer							
-----200-1100 nm: Microscope-----									
-----220-350 nm: Objective-----									
-----220-350 nm: Imaging lens-----									
-----220-350 nm: Collimating lens-----									
-----220-350 nm: Inspection optics-----									
-----220-450 nm: Objective-----									
-----220-450 nm: Imaging lens-----									
-----220-450 nm: Inspection optics-----									
-----350-420 nm: Projection Lens-----									
-----351 nm-532 nm: Imaging Lens-----									
-----390-960 nm: Macro lens-----									
-----436-560 nm: Condenser lens-----									
-----425-600 nm: Tube lens-----									
-----450-650 nm: Imaging lens-----									
-----450 nm-650 nm: Relay lens-----									
-----486 nm-656 nm: Relay lens-----									
-----405 nm-650 nm: Microscope-----									
-----450 nm-650 nm: Microscope-----									
-----450 nm-650 nm: Illumination optics-----									
-----450 nm-650 nm: Height detection optics-----									
-----500-600 nm: Condenser lens-----									
-----520-700 nm: Tube lens-----									
-----500-1000 nm: Tube lens-----									
-----532,1064nm : Two-wavelength imaging lens-----									
-----500 nm-1100 nm: Microscope-----									
-----800-1000 nm: Relay lens-----									
-----900-1050 nm: Condenser lens-----									



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