for Processing and Measurement

Development Results of Optics (2001-2019)

100nm～	200nm～	300nm～	400nm～	500nm～	600nm～	700nm～	800nm～	900nm～	1000nm～
・157nm	・213nm	・308nm	・405nm	・510-560nm	・633nm	・798nm	・800nm	・905nm	・1028nm
Objective lens	Objective lens	Homogenizer	Objective lens	Inspection optics	Condenser lens	Light collection optics	Line focusing optics	Reflection transmission optics	Transmission optics
	Relay lens		Relay lens			Processing optics			
・193nm	Laser interferometer	・310-380nm		・515nm	・660nm		・808nm	・980nm	・1053nm
Objective lens	Line lighting	Light collection optics	・408nm	Transmission optics	Microscope		LD beamforming optics	Transfer optics	F-theta lens
Condenser lens			Objective lens				Line beam optics	Processing optics	Expander
Relay lens	・248nm	・343nm	Tube lens	・527nm			Processing optics		Rotary attenuator
Expander	Objective lens	Transmission optics	Exposure optics	Objective lens			Transfer optics		Processing optics
	Tube lens		Laser interferomel	Expander					
	Condenser lens	・349nm		Rotary attenuator			・810nm		
	Relay lens	Rotary attenuator		Processing optics			Repair optics		・1064nm
	Field lens		・435nm						Objective lens
	Expander	・350nm	Objective lens						Condenser lens
	Cylindrical expander	Expander		・532nm					Tube lens
	Cylindrical expander		・488nm	Condenser lens					Collimating lens
	Homogenizer	・351nm	Relay lens						Relay lens
	Line beam optics	Objective lens	Zoom lens	F-theta lens					F-theta lens
	Image rotator	Tube lens	F-theta lens						Expander
		Relay lens	Inspection optics	Collimator					Homogenizer
	・257nm	Expander		Expander					Rotary attenuator
	Transmission optics	Beam homogenizer							Processing optics
		Rotary attenuator							Beam shaping optics
	・262nm			Beam shaper					Fiber transmission optics
	Rotary attenuator	・355nm		Beam rotator					
		Objective lens		Rotary attenuator					・1070nm
	・263nm	Condenser lens		Microscope					Condenser lens
	Expander	F-theta lens		Anamorphic optical system					Reducer
		Anamorphic expander		Annealing optical system					Processing optics
	・264nm	Beam homogenizer		Processing optics					
	Expander	Homogenizer		Interference exposure optics					・1080nm
		Beam rotator		Inspection optics					F-theta lens
	・266nm	Rotary attenuator		Illumination optics					
	Objective lens	Line lighting		Peening optical system					・1090nm
	Relay lens	Inspection optics		Fiber transmission optics					Processing optics
	Zoom lens	Illumination optics		Repair optics					
	F-theta lens	Processing optics							・12um
	Expander	Coupling optical system							Objective lens
	Zoom expander	Repair optics							
	Cylindrical expander	Laser interferometer							・13-15um
	Cylindrical zoom expander								Objective lens
	Anamorphic expander								
	Anamorphic condensing optics								・1535nm
	Homogenizer	・365nm							Condenser lens
	Beam shaping optics	Objective lens							
	Line lighting	Relay lens							
	Rotary attenuator	Exposure lens							
	Inspection optics	Inspection optics							
	Illumination optics	Laser interferometer							
	Processing optics								
	Laser interferometer								
	・270-300nm								
	Projection lens								

----------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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