Sı	ıbca	tego	ry		Sı	ubca	tego	ry	
Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				# 3D (See Cameras, Holographic; Displays, Holographic; Scanners, 3D; Vision Systems, 3D) 3D Printing Services 3D Printing Systems A Abrasives, Optical — Coated Abrasives, Optical — Powder or Grain Abrasives, Optical — Wheel Absorber, Saturable (See Dyes) Accelerometers (See also Laser Systems, Vibration Measurement)					Analyzers, Waveform (See Fiber Optic Waveform Analyzers; Waveform Analyzers) Analyzers, Wavefront (See Wavefront Analyzers) Anemometers, Laser (See Laser Anemometers) Annealing Equipment (See Furnaces, Glass-Annealing; Laser Systems, Annealing) Antivibration (See Tables, Vibration Isolated; Workstations, Antivibration) Apertures Arc Lamps (See Light Sources; Power Supplies) Array Processors Arrays (See Detector Arrays; Fiber-Coupled Laser Diode Arrays; Filter Arrays; Imaging Arrays; Laser Diode Arrays; Lens Arrays; Linear Arrays;
				Acousto-Optic Scanners (See Scanners, Acousto-Optic) Acousto-Optics (See Crystals; Filters; Glass; Laser Q-Switches; Modulators and Deflectors; Scanners)					Microlens Arrays) Artificial Intelligence Vision Systems (See Vision Systems, Intelligent) Aspherics (See Lenses, Aspheric; Mirrors, Aspheric) Astronomical Instruments Astronomical Optics (See Optics Astronomical)
				Actuators, Linear Actuators, Piezoelectric					Astronomical Optics (See Optics, Astronomical) Attenuators
				Actuators, Rotary Acylindrical Lenses (See Lenses, Acylindrical) Adaptive Optics (See Optics, Adaptive) Adhesion Test Equipment					(See also Fiber Optic Attenuators) Autocollimators Autocorrelators Automated Microscopes (See Microscopes, Automated)
				(See also Coating Adhesion Testers) Adhesive and Epoxy Dispensing Systems Adhesives (See Cements and Adhesives;					Autotrackers Avalanche Photodiodes (See Detectors, APD) Avionic Displays (See Displays, Avionic)
				Epoxies; Fiber Optic Epoxies) Air Pollution Measurement and Control Systems, Optical					В
				Control Systems, Optical Air Quality Monitors Alignment Systems (See Laser Systems, Alignment; Telescopes, Alignment; Tooling and Alignment Systems, Optical) Alignment Vision Systems (See Vision Systems, Alignment)					Babinet-Soleil Compensators Ball Lenses (See Lenses, Ball) Ball Screws (See Screws) Bandpass Filters (See Filters, Bandpass) Bandwidth Testers (See Fiber Optic Bandwidth Testers)
				Alumina Amplifiers, Broadband Amplifiers, Detector (See Detector Amplifiers) Amplifiers. Fiber (See Fiber Optic Amplifiers)					Barcode Printers Barcode Readers Beam Deflectors Beam Delivery Systems (See Laser
				Amplifiers, High-Voltage Amplifiers, Laser Amplifiers, Light Amplifiers, Linear Amplifiers, Lock-In Amplifiers, Low-Level Amplifiers, Optical Amplifiers, Preamplifier Amplifiers, Pulse Amplifiers, Video Analyzers, Fourier Analyzers, Gas Analyzers, Image (See Image Analyzers)					Delivery Systems) Beam Directors Beam Expanders Beam Focusing Equipment Beam Homogenizers Beam Measurement Equipment Beam Positioners Beam Profilers, Laser Beam Quality Meters Beam Reflectors, Ceramic Beam Reflectors, Corner Cube Beam Reflectors, Elliptical, Parabolic, Dichroic — Coated
				Analyzers, Motion (See Cameras, Motion Analysis; Motion Analysis Equipment) Analyzers, MTF (See Modulation Transfer Function Analysis/Measurement Equipment) Analyzers, Multichannel Analyzers, Other Analyzers, Particle Size (See Particle Size Analyzers)					Beam Samplers Beamsplitters Beam Stabilizers Beam Terminators Bearings, Air Bearings, Air — Spindle Bearings, Ball
				Analyzers, Polarization (See Polarization Analyzers) Analyzers, Pulse Analyzers, Raman Analyzers, Spectrum (See also Fiber Optic Spectrum Analyzers) Analyzers, Surface (See Surface Analyzers)					Bearings, Roller Bellows Benches, Optical (See also Mounts; Tables) Benches, Vibration-Isolated Binary Optics (See Optics, Binary) Binoculars
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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Bioluminescence Equipment (See also Microscopes, Bioluminescence) Birefringent Crystals (See Crystals, Birefringent and Polarizing) Bit-Error-Rate Testers (See Fiber Optic Bit-Error-Rate Testers) Blackbody Sources Blacklight Curing Systems Blanks, Lens Blanks, Mirror — Glass and Glass-Ceramic Blanks, Mirror — Metal Blanks, Molded Blanks, Prism Blanks, Sagged Boards (See Array Processors; Data Acquisition					Cameras, C-Mount (See Cameras, Line-Scan) Cameras, Digital Cameras, Digitizer (See Image Digitizers) Cameras, High-Definition Television Cameras, High-Speed Motion Cameras, High-Speed Still Cameras, Holographic Cameras, Hyperspectral Imaging Cameras, Identification Cameras, Image Converter (See Image Converters) Cameras, Image Intensifier (See Image Intensifiers) Cameras, Infrared (See Cameras, CCD; Cameras, Midrange-Infrared; Cameras,
				Equipment; Display Controllers; Frame Grabbers; Image Processors; Parallel Processors; Software, Signal Processing) Bolometers (See Detectors, Infrared) Boots (See Fiber Optic Connector Boots) Bores (See Laser Tubes and Bores) Borescopes Boresights Boxcar Averagers Brewster Angle Windows (See Windows, Brewster Angle) Brushless DC Motors (See Motors, Brushless DC) Bulbs (See Light Sources)					Cameras, Indiange-Initated, Cameras, Near-Infrared; Cameras, Thermal-Infrared) Cameras, InGaAs Cameras, Line-Scan Cameras, Line-Scan Cameras, Machine Vision Cameras, Medical Cameras, Microscope Cameras, Mid-Infrared Cameras, Motion Analysis Cameras, Multispectral Measurement Cameras, Nanosecond Cameras, Near-Infrared Cameras, Oil Well and Pipe Inspection Cameras, Photomicrographic (See Cameras, Microscope)
				Cable (See Cables and Connectors; Camera Cable Assemblies; Fiber Optic Cable) Cable Duct (See Fiber Optic Cable Duct; Fiber Optic Cable Inner Duct) Cable Management Products (See also Fiber Management Systems) Cables and Connectors, High-Voltage CAD/CAE Software (See Software, Optical Design) Calcite (See Crystals, Birefringent) Calibrated Sources (See Light Sources, Calibrated) Calibration Equipment (See Blackbody Sources; Camera Calibration Equipment;					Cameras, Picosecond Cameras, Progressive Scan Cameras, Pyroelectric Vidicon (See Vidicons, Pyroelectric) Cameras, Short-Wave Infrared Cameras, Slow Motion Cameras, Slow Scan Cameras, Stereoscopic Cameras, Stereoscopic Cameras, Television Cameras, Thermal-Infrared Cameras, Time Delay Integration Cameras, Timelapse Cameras, Ultraviolet Cameras, Underwater
				Laser Calibration Equipment; Laser Calibration Equipment) Calibration Services, Light Instrumentation Calibration Standards Calorimeters Camera Accessories Camera Adapters Camera Calibration Equipment Camera Calibration Equipment Camera Repeaters/Extenders Camera Shutters (See Shutters) Cameras, Aerial Cameras, Area-Scan Cameras, CCD Cameras, CCD, Cooled Cameras, CCD, Electron Multiplication Cameras, CCTV Cameras, CID Cameras, CID Cameras, CID Cameras, CMOS					Cameras, Underwater Cameras, Video Cameras, Vidicon (See Vidicons) Cameras, X-Ray Capacitors (See Film Capacitors; Laser Capacitors) Capacitors and Resistors Cases, Containers, and Protective Shipping Materials CCD (See Cameras, CCD; Image Sensors, CCD; Lenses, CCD) CCTV (See Cameras; Lenses; Television Systems, Closed-Circuit) Cell Assay Imaging Systems (See Imaging Systems, Cell Assay) Cells, Bragg Cells, Dye Laser Cells, Photoelectric (See Detectors) Cells, Raman
1	2	3	4	Cameras, CMOS, Intensified Cameras, CMOS, Scientific (sCMOS)	1	2	3	4	Cells, Refractometer Cells, Solar (See Solar Cells and Wafers)

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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Cells, Spectrophotometer Cements and Adhesives, Optical (See also Epoxies; Fiber Optic Epoxies) Centering and Edging Machines Ceramics (See also Glass Ceramics) Certification and Testing Services (See Testing)					Coatings, Antistatic Coatings, Beamsplitter Coatings, Black Coatings, Carbon Coatings, Conductive (See Coatings, Transparent Conductive; Static Control)
				Channel Electron Multipliers (See Detectors, Photoelectric) Character Generation Systems (See Laser Systems, Character Generation) Character Recognition Systems, Optical (See					Coatings, Diamond Coatings, Dichroic Coatings, Dielectric Coatings, Epitaxial Coatings, Fiber Optic (See Fiber Optic Coatings)
				Imaging Systems, Optical Character Recognition) Chart Recorders (See Strip-Chart Recorders) Chemical Filtration (See Filtration/Purification Equipment) Chemicals (See Cleaning Materials and Equipment; Dyes; Photographic Chemicals; Reagents; Vacuum Evaporation Chemicals)					Coatings, Gold Coatings, Heat Reflection Coatings, High Damage Threshold Coatings, Hydrophobic Coatings, Infrared Coatings, Laser Coatings, Metallic (See also Optical Plating Services)
				Chemical Vapor Deposition Equipment Chemical Vapor Deposition Materials Chillers (See Coolers) Choppers, Electro-Optic					Coatings, Nanotechnology (See Nanotechnology, Coatings and Thin Films) Coatings, Opaque Conductive Coatings, Optical
				Choppers, Motorized Choppers, Optical (See also Modulators and Deflectors) Chromatographs (See Gas Chromatographs; Liquid Chromatographs) CID (See Cameras, CID; Image Sensors, CID)					Coatings, Photoconductive Coatings, Plastic Coatings, Polarizing Coatings, Polymer Coatings, RF/EMI Shielding Coatings, Silver
				Circulators, Dye (See Dye Circulators) Cleaning Materials and Equipment for Optics Cleaning Materials and Equipment, Other Cleaning Materials and Equipment, Ultrasonic (See Ultrasonic Equipment and Materials)					Coatings, Solar Coatings, Solderable (See also Soldering Materials) Coatings, Superconductive Coatings, Thick-Film Coatings, Thin-Film
				Cleanroom Apparel Cleanroom Consumables Cleanroom Equipment Cleanroom Maintenance/Repair Services Cleanroom Wipes Cleanrooms					Coatings, Transparent Conductive Coatings, Ultraviolet Coatings, Visible Coatings, White-Reflectance Coatings, X-Ray Cold Shields
				Cleavers, Fiber Optic (See Fiber Optic Cleavers) Closed-Circuit Television – CCTV (See Cameras; Lenses; Television Systems, Closed-Circuit) CMOS (See Cameras, CMOS; Image Sensors, CMOS; Lenses, CMOS)					Collectors (See Solar Energy Collectors) Collimating Lenses, Laser Diode (See Lenses, Laser Diode Collimating) Collimators (See Autocollimators; Fiber Optic Autocollimators; Fiber Optic Collimators)
				Coating Adhesion Testers (See also Adhesion Test Equipment) Coating Design Services (See Optical Thin-Film Design Services) Coating Design Software (See Software, Optical Thin-Film)					Collimators, Infrared Collimators, Laser Collimators, Optical Collimators, Target Colorimeters Color Standards and Samples (See Standards)
				Coating Equipment/Systems (See Chemical Vapor Deposition Equipment; Fiber Optic Coating Equipment and Systems; Sputtering Equipment; Thin-Film Deposition Equipment;					Color Test and Measurement Equipment Combs, Frequency (See Frequency Combs) Communications Systems, Optical (See also Fiber Optic Communications
				Vacuum Equipment, Components and Accessories) Coating Materials Coating Testing and Monitoring Equipment (See also Adhesion Test Equipment; Coating Adhesion Testers; Film Thickness Gauges;					Systems; Laser Systems, Communications) Communications Systems, Wireless Comparators Compensators (See Babinet-Soleil Compensators) Component Manufacturing Equipment (See Photonics Component Manufacturing)
				Film Thickness Monitors) Coatings, Abrasion Resistant Coatings, Antifog Coatings, Antireflection					Component Packaging (See Fiber Optic Component Packaging; Industrial Component Packaging; Mechanical Component Packaging) Computer Graphics Equipment and Systems
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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Computer Image Processing Equipment (See Image Processors) Computer Services, Optical Design (See Optical Design and Engineering Services) Computer Software (See Software) Computers, Optical (See Optical Computing Equipment and Systems) Conductive Materials (See Coatings, Transparent Conductive; Static Control) Conduit, Plastic (See Plastic Tubing) Conferences and Exhibitions Connectors (See Cables and Connectors, High-Voltage; Fiber Optic Connectors) Consulting Services, Coating (See Consulting Services, Optical) Consulting Services, Design and Engineering Consulting Services, FDA Regulations Consulting Services, Fiber Optic					Courses (See Educational Courses; Training Services, Cryogenic Detectors (See Detectors, Cryogenic) Cryogenic Dewars (See Dewars, Cryogenic) Cryogenic Equipment and Systems Cryopumps Crystal Growing Equipment Crystal Growing Materials Crystal Slicing Equipment (See Slicing and Cutting Machines) Crystals, Acousto-Optic Crystals, Birefringent and Polarizing Crystals, Diamond Crystals, Diamond Crystals, Electro-Optic Crystals, Infrared Crystals, KTP and Isomorphs Crystals, KTP and Isomorphs Crystals, Lanthanates
				Consulting Services, Holographic Consulting Services, Imaging Consulting Services, Laser Consulting Services, Manufacturing Consulting Services, Marketing (See Marketing Consulting Services)					Crystals, Landrahates Crystals, Laser Crystals, Liquid (See Liquid Crystals) Crystals, Magneto-Optic (CdMnTe, CdMnHgTe, TdGdG, etc.) Crystals, Niobate Crystals, Nonlinear
				Consulting Services, Nanotechnology Consulting Services, Optical Consulting Services, Quality (See Organizational Consulting Services; Quality Program Consulting Services) Consulting Services, Robotic Consulting Services, Venture Capital					(See also Nonlinear Optical Materials) Crystals, Photorefractive (BaTiO ₃ , SBN, KTN, etc.) Crystals, Piezoelectric (See Piezoelectric Transducers and Ceramic Materials) Crystals, Quartz (See Quartz) Crystals, Ruby Crystals, Sapphire
				Consumables, Cleanroom (See Cleanroom Consumables) Contract Manufacturing, Photonics Control Systems (See Air Pollution; Air Quality; Fire Systems; Infrared Control Systems; Laser Systems, Process Control; Motion Controllers; Motor Controllers and Drivers; Photoelectric Control Systems; Robot Guidance Systems; Static Control; Temperature Controllers) Converters (See Fiber Optic Converters; Image Converters; Power Converters;					Crystals, Scintillation Crystals, Self-Frequency-Doubling Crystals, Semiconductor Crystals, Silicon Crystals, Tantalate (LiTaO ₃ , KTaO ₃ , etc.) Crystals, Terahertz Crystals, Ultraviolet Crystals, X-Ray Crystals, YAG Crystals, YALO Crystals, YLF
				Scan Converters) Converters, Optical-to-Electrical/ Electrical-to-Optical Coolants Coolers, Cryogenic, Closed-Cycle Coolers, Detector (See Detector Coolers) Coolers, Stirling Cycle Cooling Fans and Blowers					Curing Gels (See Refractive Index Gels and Liquids) Curing Systems (See Blacklight Curing Systems; Epoxy Curing Systems; Fiber Optic Curing Systems; Ultraviolet Curing Equipment) Current Monitors Custom Optics (See Optics) Cutting Machines (See Laser Systems,
				Cooling Systems, Cryogenic (See Coolers, Cryogenic, Closed-Cycle; Cryogenic Equipment and Systems) Cooling Systems, Evaporator Cooling Systems, Heat Exchanger Cooling Systems, Laser (See Laser	_				Cutting; Slicing and Cutting Machines) D Data Acquisition Equipment
				Cooling Equipment) Cooling Systems, Thermoelectric Cooling Systems, Water Coordinate Measurement Systems Corner Cube Reflectors (See Beam Reflectors, Corner Cube) Correlators (See Optical Correlators) Counters (See Particle Counting Equipment; Photon Counters; Time-Interval Counters) Couplers (See Fiber Optic Couplers; Laser-to-Fiber Couplers; Optical Couplers; Prism Couplers)					Data Acquisition Systems Data Handling Systems (See also Information Display Systems) Data Links (See Fiber Optic Data Links) Data Recorders (See Recorders, Data) Data Software (See Software) DC Motors (See Motors, Brushless DC; Motors, DC) Definition Test Objects and Charts (See Resolution Targets) Deflectometers (See Optical Testing Instruments)
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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Deflectors (See Beam Deflectors; Modulators and Deflectors; Scanners) Deformable Mirrors (See Mirrors, Deformable) Degassers (See Getters) Delay Generators (See Optical Delay Generators) Demultiplexers, Fiber Optic (See Fiber Optic Wavelength Division Demultiplexers) Densitometers Depolarizers Deposition Equipment (See Chemical Vapor Deposition; Ion-Beam Deposition; Sputtering Equipment; Thin-Film Deposition; Vacuum Equipment) Design Automation Software, Electronic Design Automation)					Detectors, Ultraviolet Dewars, Cryogenic Diamond Coatings (See Coatings, Diamond) Diamond Machining Services (See Machining Services, Diamond) Diamond Powders (See Abrasives, Optical — Powder or Grain) Diamond Tools and Machining Equipment Diamond-Turned Optics (See Optics) Diaphragms, Iris Dichroics (See Beam Reflectors; Coatings, Dichroic; Filters, Dichroic) Dielectrics (See Coatings, Dielectric) Diffractive Optics (See Gratings, Diffraction; Holograms, Computer-Generated; Lenses,
				Design and Engineering Services (See also Computer Services, Optical Design; Consulting; Fiber Optic Design and Engineering Services; Integrated Optics Circuit Design and Engineering Services; Laser System Design and Engineering Services; Lens Design Services; Optical Design and Engineering Services) Detector Amplifiers					Diffractive; Optics, Binary; Optics, Plastic) Diffractometers, X-Ray Diffusers, Light-Shaping (See also Screens, Diffusing) Digital Delay Generators (See Generators, Digital Delay) Digital Displays (See Displays, Digital) Digital Image Processors (See Frame Grabbers; Image Processors)
				Detector Arrays (See also Linear Arrays) Detector Chips Detector Coolers Detector/Filter Combinations Detector Test Equipment Detectors, APD					Digital Links (See Fiber Optic Digital Links) Digital Panel Meters Digital Transmission Systems Digitizers (See Image Digitizers; Waveform Digitizers) Dilatometers Diode Lasers (See Fiber Optic Laser Diodes;
				Detectors, APD, Large-Area Detectors, Bolometric (See Detectors, Infrared) Detectors, Cryogenic Detectors, Fiber Optic (See Fiber Optic Detectors) Detectors, Hybrid Detectors, Imaging Photon Detectors, Infrared					Lasers, Diode) Diodes, Optical (See Optical Diodes) Dioptometers Dispersion Compensators (See Fiber Optic Dispersion Management Devices) Displacement Sensing Equipment (See Position Sensing Equipment)
				Detectors, Leak (See Leak Detectors) Detectors, Low-Light-Level Detectors, Microchannel Plate (See Microchannel Plates) Detectors, Multichannel Spectroscopy					Display Controllers Display Films, Optical Displays, 3D (See Displays, Holographic) Displays, Alphanumeric Displays, Avionic
				Detectors, Photoacoustic Detectors, Photodiode (See also Photodiodes) Detectors, Photoelectric Detectors, Photoemissive Detectors, Photometric (See Photometric Detectors)					Displays, Computer Graphic (See Computer Graphics Equipment and Systems) Displays, Digital Displays, Electroluminescent Displays, Flat Panel Displays, Head-Up
				Detectors, Photomultiplier Tube Detectors, Photovoltaic and Photoconductive Detectors, Picosecond Detectors, PIN Diode Detectors, Position Sensing (See					Displays, Helmet-Mounted Displays, Holographic (See also Holographic Systems) Displays, Laser Displays Light-Emitting Diode (LED)
				Detectors, Position Sensing (See Position Sensing Equipment) Detectors, Pyroelectric Detectors, Radiometric (See Radiometric Detectors) Detectors, Scintillation Detectors, Semiconductor Detectors, Silicon (See also Detectors, APD; Detectors, PIN Diode; Detectors, Silicon Photomultiplier)					Displays, Light-Emitting Diode (LED) Displays, Liquid Crystal (LCD) Displays, Organic Light-Emitting Diode (OLED) Displays, Projection Displays, Radar Data Displays, Reflective/Micromirror Displays, Stereoscopic Displays, Video Display Test Equipment
				Detectors, Silicon Drift Detectors, Silicon Photomultiplier Detectors, Solid-State Photon-Cooled Detectors, Terahertz Detectors, Thermopile					Distributed Bragg Reflector Lasers (See Lasers, Distributed Bragg Reflector) Document Scanning Systems (See Scanning Systems, Document) Domes, Optical
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Sı	Subcategory		ry		Subcategory		ry		
Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Dust Particle Counting Equipment (See Particle Counting Equipment) Dye Circulators Dye Laser Cells (See Cells, Dye Laser) Dye Lasers (See Lasers, Dye) Dyes, Absorbing Dyes, Fluorescent Dyes, Laser Dynamic Gain Equalizers (See Fiber Optic Amplifiers)					Exposure Meters, Photoelectric External Cavity Lasers (See Lasers, Diode, Tunable External Cavity) Extraction Systems (See Fume Extraction Systems) Eyepieces (See Lenses, Eyepieces) Eyetrackers F Faceplates (See Fiber Optic Faceplates;
				Turpmeray					Image Tube Faceplates)
				E		_		_	Failure Analysis Laboratory Services Fans and Blowers (See Cooling Equipment)
				EDA Software (See Software, Electronic Design Automation) Eddy Current Instruments (See Nondestructive Testing Instruments, Eddy Current) Edging Machines (See Centering and					Faraday Rotators Feature Extraction Systems (See Image Feature Extraction Systems) Fiber Management Systems (See also Cable Management Products)
				Edging Machines) Educational Courses (See also Training Services) Educational Kits/Products Educational Materials (See also Publications) Electroformed Optics (See Optics, Electroformed) Electroforming Services Electroluminescent Technology/Lighting (See Displays, Electroluminescent; Light Sources,					Fiber Manufacturing (See Fiber Optic Fibers; Fiber Optic Drawing and Manufacturing Equipment) Fiber Optic Accessories Fiber Optic Active Components Fiber Optic Adapters Fiber Optic Alignment Systems Fiber Optic Amplifiers Fiber Optic Analog Links
				Electroluminescent) Electron-Beam Instruments Electron-Beam Lithography Systems Electron-Gun Systems Electronic Flash Units (See Light Sources, Xenon)					Fiber Optic Attenuators Fiber Optic Backreflectors Fiber Optic Bandwidth Testers Fiber Optic Bit-Error-Rate Testers Fiber Optic Borescopes (See Borescopes)
				Electro-Optics (See Crystals; Modulators) Ellipsometers					Fiber Optic Bundles Fiber Optic Cable, High-Temperature
				EMCCD (See Cameras, CCD, Electron Multiplication) Encoders, Laser Encoders, Linear Encoders, Optical Encoders, Rotary Endoscopes Energy Meters (See also Fiber Optic Power Meters; Laser Power Meters; Photometers; Power					Fiber Optic Cable Identification (See Fiber Optic Labels and Tags) Fiber Optic Cable, Multifiber Fiber Optic Cable, Outdoor or Heavy Duty Fiber Optic Cable, Radiation-Hardened Fiber Optic Cable, Single-Fiber Fiber Optic Cable, Specialty Fiber Optic Cable Assemblies
				Meters; Radiometers; Spectroradiometers) Energy Systems, Renewable/Sustainable Engraving (See Laser Job Shop Services; Laser					Fiber Optic Cable Duct Fiber Optic Cable Inner Duct Fiber Optic Cable Path & Fault
				Systems, Scribing and Engraving) Environmental Chambers Epitaxial Coatings (See Coatings, Epitaxial) Epitaxial Equipment Epoxies (See also Cements and Adhesives;					Locating Equipment Fiber Optic Cable Pulling Equipment Fiber Optic Cable Sheathing (See Fiber Optic Sheathing) Fiber Optic Cable Strippers
		_		Fiber Optic Epoxies)					Fiber Optic Cable Winders/Unwinders
				Epoxy Curing Systems (See also Ultraviolet Curing Equipment) Epoxy Dispensing Systems (See Adhesive and Epoxy Dispensing Systems) Equipment Maintenance Management Services Etalons					Fiber Optic Cleaning Materials and Equipment Fiber Optic Cleavers Fiber Optic Coating Equipment and Systems Fiber Optic Coatings Fiber Optic Collimators Fiber Optic Communications Systems
				Etching Equipment Etching Services Evaporation Chemicals (See Vacuum Evaporation Chemicals) Evaporation Systems (See Cooling Systems, Evaporator; Vacuum Equipment) Exposure Controls (See Photoelectric Control Systems)					Fiber Optic Communications, Wireless (See Communications Systems) Fiber Optic Component Manufacturing Equipment Fiber Optic Component Packaging (See also Fiber Optic Alignment Systems; Micropositioners; Positioning Equipment) Fiber Optic Components, Tunable (See Filters, Tunable; Lasers, Tunable Diode)
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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Fiber Optic Connector Boots Fiber Optic Connector Identification (See Fiber Optic Labels and Tags) Fiber Optic Connectors, Expanded-Beam Fiber Optic Connectors, Multimode, Multifiber Fiber Optic Connectors, Multimode, Single-Fiber					Fiber Optic Gyroscopes (See Gyroscopes, Fiber Optic) Fiber Optic Illuminators Fiber Optic Inspection Equipment Fiber Optic Installation Equipment Fiber Optic Isolators
				Fiber Optic Connectors, Multipole Fiber Optic Connectors, Single-Mode, Multifiber Fiber Optic Connectors, Single-Mode, Single-Fiber Fiber Optic Connector Tooling Fiber Optic Converters, A-D/D-A Fiber Optic Converters, Copper-					Fiber Optic Jacketing (See Fiber Optic Sheathing) Fiber Optic Kits Fiber Optic Labels and Tags Fiber Optic Lamp Sources (See Fiber Optic Illuminators) Fiber Optic Laser Delivery Systems
				to-Fiber System Fiber Optic Couplers, Bidirectional Fiber Optic Couplers, Polarization-Maintaining Fiber Optic Couplers, Projection Core Fiber Optic Couplers, Star Fiber Optic Couplers, Tee Fiber Optic Couplers, Tree Fiber Optic Couplers, Unidirectional					(See also Laser Delivery Systems, Medical) Fiber Optic Laser Diodes Fiber Optic Light-Emitting Diodes Fiber Optic Lightguides Fiber Optic Manufacturing Equipment (See Fiber Optic Drawing and Manufacturing Equipment) Fiber Optic Materials
				Fiber Optic Couplers, Variable Fiber Optic Coupling Compounds Fiber Optic Curing Systems Fiber Optic Data Communications Equipment (See also Fiber Optic Communications Systems)					Fiber Optic Microinterferometers Fiber Optic Miniature Optics (See Micro-Optics; Optics) Fiber Optic Modems Fiber Optic Modulators Fiber Optic Multimeters
				Fiber Optic Data Links Fiber Optic Demultiplexers (See Fiber Optic Wavelength Division Demultiplexers) Fiber Optic Dense Wavelength					Fiber Optic Multiplexers (See Fiber Optic Wavelength Division Multiplexers; Optical Multiplexers) Fiber Optic Network Control Software
				Division Demultiplexers Fiber Optic Dense Wavelength Division Multiplexers Fiber Optic Design and Engineering Services (See also Consulting Services, Fiber Optic) Fiber Optic Detectors					(See Software) Fiber Optic Networks Fiber Optic Optical Frequency Domain Reflectometers (OFDR) Fiber Optic Optical Time-Domain Reflectometers (See Optical Time-Domain
				Fiber Optic Digital Links Fiber Optic Dispersion Management Devices, Chromatic Fiber Optic Dispersion Management					Reflectometers) Fiber Optic Passive Components Fiber Optic Patch Cords Fiber Optic Patch Panels (See Fiber
				Devices, Polarization Mode Fiber Optic Distribution Panels Fiber Optic Drawing and Manufacturing Equipment Fiber Optic Epoxies					Optic Distribution Panels) Fiber Optic Pigtailing Services Fiber Optic Polarization Meters Fiber Optic Polarizers
				Fiber Optic Faceplates Fiber Optic Ferrules Fiber Optic Fibers, Dispersion-Shifted Fiber Optic Fibers, Erbium-Doped Fiber Optic Fibers, Infrared Fiber Optic Fibers, Metal Coated Fiber Optic Fibers, Mid-Infrared					Fiber Optic Polishing Equipment Fiber Optic Polishing Services Fiber Optic Positioning Equipment Fiber Optic Power Meters/Loss Test Sets Fiber Optic Preforms Fiber Optic Pulse Suppressors Fiber Optic Receivers Fiber Optic Rental Equipment
				Fiber Optic Fibers, Nonsilica Glasses Fiber Optic Fibers, Photonics Crystal Fiber Optic Fibers, Plastic Fiber Optic Fibers, Plastic-Clad Silica Fiber Optic Fibers, Polarization-Maintaining Fiber Optic Fibers, Polyimide Fiber Optic Fibers, Polymer Fiber Optic Fibers, Sapphire Fiber Optic Fibers, Scintillation Fiber Optic Fibers, Silica, Multimode Fiber Optic Fibers, Silica, Single-Mode					Fiber Optic Repeaters Fiber Optic Rotary Joints Fiber Optic Routers Fiber Optic Security Systems Fiber Optic Sensors Fiber Optic Sheathing Fiber Optic Shutters Fiber Optic Signal Generators Fiber Optics, Imaging (See Fiber Optic Bundles, Imaging) Fiber Optic Source Drivers
				Fiber Optic Fiberscopes Fiber Optic Furnaces Fiber Optic Gauges and Masters					Fiber Optic Source Bivers Fiber Optic Spectrum Analyzers (See also Analyzers, Spectrum) Fiber Optic Splicing Equipment
1	2	3	4		1	2	3	4	

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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Fiber Optic Standards Testing Fiber Optic Switches Fiber Optic Switches, Acousto-Optic Fiber Optic Switches, MEMS Fiber Optic Switches, Optical Fiber Optic System Design (See Fiber Optic Design and Engineering Services)					Filters, Tunable Filters, Ultranarrow Spectral Filters, Ultraviolet Absorbing Filters, Ultraviolet Transmitting Filters, Variable Filters, Visible Filters, Wedge
				Fiber Optic Tapers Fiber Optic Termination Equipment Fiber Optic Test Equipment (See also Fiber Optic Bandwidth Testers;					Filters, X-Ray Filtration/Purification Equipment Fingerprint Detection Systems (See Laser Systems, Fingerprint Detection)
				Fiber Optic Bit-Error-Rate Testers) Fiber Optic Test Sources Fiber Optic Time-Domain Reflectometers					Fire Control Systems Flashlamp Power Supplies (See Power Supplies, Flashlamp)
				(See Optical Time-Domain Reflectometers) Fiber Optic Training Equipment Fiber Optic Transceivers Fiber Optic Transmitters Fiber Optic Video Transmission Systems					Flashlamps/Flashtubes Flash Photolysis Systems Flash Units, Electronic (See Light Sources, Xenon) Flats, Optical (See Optical Flats) FLIR Systems (See Imaging Systems, FLIR)
				Fiber Optic Voice Transmission Systems Fiber Optic Waveform Analyzers Fiber Optic Wavelength Division Demultiplexers Fiber Optic Wavelength Division Multiplexers Fiber Optic Wireless Communications (See Fiber Optic Communications, Wireless)					FLIR Testing Systems Fluid Control Equipment Fluid Handling Pumps (See Pumps) Fluorescence Decay Systems Fluorescence Imaging Systems (See Imaging Systems, Fluorescence)
				Fiber Sensing Systems (See also Fiber Optic Sensors) Fiber-Coupled Laser Diode Arrays					Fluorescent Dyes (See Dyes) Fluorides (See Optical Materials) Fluorometers and Fluoroscopes
				Fiber-Loop Resonators Fiberscopes (See Fiber Optic Fiberscopes) Film Capacitors Film Recorders, Laser					Focometers Foundry Services Fourier Amplifiers (See Amplifiers, Fourier) Fourier Analyzers (See Analyzers, Fourier)
				Films, Optical Display (See Display Films, Optical) Films, Photographic (See Photographic Films) Films and Plates, High-Resolution Films and Plates, Holographic Film Thickness Gauges, Optical					Frame Grabbers Freeform Optics (See Optics, Freeform) Free-Space Optical Communications (See Communications Systems; Laser Systems, Communications)
				Film Thickness Monitors Filter Arrays Filter/Detector Packages (See Detector/Filter Combinations)					Frequency Combs Fresnel Optics (See Lenses, Fresnel) Fume Extraction Systems Furnaces, Fiber Optic (See Fiber Optic Furnaces)
				Filters, Absorption (Color) Filters, Absorption (Color) Filters, Acousto-Optic Filters, Bandpass Filters, Birefringent Filters, Broadband Filters, Colored Glass Filters, Contrast Enhancement					Furnaces, Glass-Annealing Furnaces, Glass-Melting Furnaces, Optical Furnaces, Other Furnaces, Vacuum (See Vacuum Furnaces) Fused Silica (See Quartz and Silica, Fused) Fusion Splicers (See Fiber Optic Splicing Equipment)
				Filters, Dichroic Filters, Fiber Optic Filters, Holographic Filters, Infrared Absorbing or Reflecting Filters, Infrared Transmitting Filters, Interference Filters, Laser Line					Gallium Arsenide (See Optical Materials) Galvanometers (See Scanners, Galvanometric) Gas Analyzers (See Analyzers, Gas) Gas Chromatographs Gases, Chemical Vapor Deposition (See
				Filters, Laser Protective Filters, Liquid Filters, Neutral Density Filters, Night-Vision Compatible Filters, Photographic Filters, Pinhole					Chemical Vapor Deposition Materials) Gases for Lasers Gases for Optical Applications Gas Handling Equipment Gas Leak Detectors (See Leak Detectors) Gas Purification Services
				Filters, Plantic Filters, Polarizing Filters, Rejection Band Filters, Spatial					Gas Purification Services Gas Purification Systems and Equipment Gas Storage Equipment Gauges, Fiber Optic (See Fiber Optic Gauges and Masters)
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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Gauges, Film Thickness (See Film Thickness Gauges) Gauges, Height, Optical Gauges, Ionization Gauges, Strain Measurement, Optical Gauges, Thickness, Optical Gauges, Vacuum (See Vacuum Gauges) Gels (See Optical Materials; Refractive Index Gels and Liquids)					Guidance Systems (See Infrared Control Systems; Laser Systems, Ranging, Navigation and Tracking Robot Guidance Systems) Gyroscopes, Fiber Optic Gyroscopes, Ring-Laser
				Generators, Character (See Laser Systems, Character Generation) Generators, Digital Delay Generators, Fiber Optic Signal (See					Halogen Light Sources (See Light Sources, Halogen Hand Tools (See Tools and Machinery) Harmonic Generators Heat Exchangers (See Cooling Systems,
				Fiber Optic Signal Generators) Generators, Harmonic (See Harmonic Generators) Generators, Image (See Video Generators) Generators, Light Pulse					Heat Exchanger) Heat Sinks Height Gauges (See Gauges, Height, Optical) Hexapods
				Generators, Pattern (See Pattern Generators) Generators, Pulse — General-Purpose Generators, Pulse — High-Voltage Generators, Signal (See Fiber Optic Signal Generators) Generators, Video (See Video Generators) Germanium (See Crystals, Germanium; Infrared Materials; Optical Materials)					High-Resolution Films and Plates (See Films and Plates, High-Resolution) High-Voltage Relays (See Relays, High-Voltage) Holograms Holographic Cameras (See Cameras, Holographic) Holographic Consulting (See Consulting Services, Holographic)
				Getters Gimbals Glass, Acousto-Optic Glass Blowing Services Glass, Blown Glass Cells (See Cells, Glass)					Holographic Display Systems (See Displays, Holographic) Holographic Films and Plates (See Films and Plates, Holographic) Holographic Filters (See Filters, Holographic) Holographic Gratings (See Gratings, Holographic)
				Glass Ceramics Glass Components and Subassemblies Glass, Infrared Glass, Laser					Holographic Nondestructive Testing Equipment (See also Laser Systems, Nondestructive Testing) Holographic Optics (See Optics, Holographic)
				Glass, Magneto-Optic Glass, Optical (See also Optical Materials) Glass, Scintillator Glass-to-Metal Seals (See Seals)					Holographic Systems (See also Laser Systems, Holographic) Housings (See Lamp Housings; Photomultiplier Tube Housings)
				Glass Tubing Glass Wafers (See Wafers, Glass) Glassworking Equipment Gloves and Finger Cots (See Cleanroom Consumables; Laboratory Instruments and Supplies)					Humidity Control/Monitoring Systems Hybrid Circuit Test Equipment (See Test Equipment, Hybrid Circuit) Hyperspectral Imaging Systems (See Cameras, Hyperspectral Imaging;
				Goggles and Glasses, Safety Eyewear (See also Laser Safety Eyewear) Golay Cells (See Detectors, Infrared) Gonimeters					Imaging Systems, Hyperspectral)
				Goniophotometers Graphics, Computer (See Computer Graphics Equipment and Systems) Graticules (See Reticles) Gratings, Blazed Gratings, Diffraction Gratings, Echelon Gratings, Fiber Bragg Gratings, Holographic					ICCD (See Cameras, CCD, Intensified) Illumination Design Software (See Software, Illumination Design) Illumination Systems, Controlled Illumination Systems, Display Illumination Systems, Fiber Optic Illumination Systems, Machine Vision Illumination Systems, Microscope Illuminators (See Fiber Optic Illuminators;
				Gratings, Laser Gratings, Lithography Gratings, Radial Gratings, Replica Gratings, Ronchi Grating Substrates (See Substrates)					Light Sources) Illuminometers Image Acquisition Equipment (See Barcode Readers; Cameras; Imaging Systems; Lenses; Light Sources; Scanners; Scanning Systems; Vidicons)
				Grinding and Polishing Machinery (See also Diamond Tools and Machining Equipment; Tools and Machinery) Grinding and Polishing Materials (See Abrasives; Coating Materials; Pitch Polishing Compounds; Polishing Compounds)					Image Analyzers Image Converters Image Digitizers Image Enhancing Equipment Image Feature Extraction Systems Image Generators (See Video Generators)
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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Image Intensifiers Image Measuring Equipment Image Motion Compensation Systems Image Processing Equipment (See also Frame Grabbers; Scan Converters; Video Processing Equipment; Vision Systems,					Infrared Materials (See also Crystals; Glass; Optical Materials) Infrared Optics (See Optics, Infrared) Infrared Radiation Shields (See Cold Shields) Infrared Sensor Cards Infrared Sources (See Light Sources,
				Machine) Image Processors (See also Array Processors; Data Acquisition Equipment; Display Controllers; Frame Grabbers; Parallel Processors)					Infrared; Radiation Sources, Infrared) Infrared Target Projectors (See Target Projectors) Infrared Test Equipment Infrared Thermography Software (See Software, Infrared Thermography)
				Image Scanners Image Sensor Sockets (See Sockets) Image Sensors, Area Image Sensors, CCD Image Sensors, CID Image Sensors, CMOS Image Sensors, Linear Image Sensors, Machine Vision					Infrared Thermometers Infrared Viewers Injection-Molded Plastics (See Optics, Plastic) Inspection Equipment (See Cameras, Oil Well and Pipe Inspection; Fiber Optic Inspection Equipment Laser Systems, Inspection; Light Sources, Inspection; Photoelectric Control Systems; Quality Control and Inspection Systems)
				Image Sensors, sCMOS Image Sensors, X-Ray Image Software Libraries and Toolkits Image Storage Systems, Computer-Based Image Tube Faceplates Imaging Arrays Imaging Devices (See Cameras; Displays; Fiber Optic Bundles; Imaging Systems, FLIR; Microchannel Plates; Vidicons)					Inspection Equipment, X-Ray Inspection Systems, Noncontact Automatic Inspection Systems, Noncontact Optical Inspection Systems, Video Inspection Systems, X-Ray Instrument Control Software (See Software) Integrated Circuits, Photonics (See Photonics Integrated Circuits) Integrated Optic Components
				Imaging Devices, Solid-State (See Detector Arrays; Image Sensors) Imaging Materials					Integrated Optics Circuit Design and Engineering Services Integrated Optics, Printed Circuit
				Imaging Software (See Software) Imaging Systems, Cell Assay Imaging Systems, FLIR Imaging Systems, Fluorescence Imaging Systems, Hyperspectral Imaging Systems, Infrared Imaging Systems, Nanotechnology Imaging Systems, Object Recognition Imaging Systems, Optical Character Recognition Imaging Systems, Optical Coherence Tomography Imaging Systems, Pattern Recognition Imaging Systems, Periscope Imaging Systems, Photoacoustic Tomography Imaging Systems, Superresolution Imaging Workstations, (See Workstations, Imaging)					Board and Mounted Integrating Spheres Intelligent Vision Systems (See Vision Systems, Intelligent) Interferometer Accessories Interferometers, Angular and Linear Measuring Interferometers, Fabry-Perot Interferometers, Fiber Optic Interferometers, Fizeau Interferometers, Infrared Interferometers, Laser Speckle Interferometers, LUPI Interferometers, Mach Zehnder Interferometers, Michelson Interferometers, Other
				Imbedding Media, Microscopy Immersion Liquids, Microscopy Inclinometers Index of Refraction (See Refractive Index Gels					Interferometers, Phase Contrast Interferometers, Twyman-Green Interferometry Systems (See Laser Systems, Interferometry)
				and Liquids) Industrial Component Packaging Information Display Systems Infrared Cameras (See Cameras, CCD; Cameras, Mid-Infrared; Cameras, Near-Infrared; Cameras, Thermal-Infrared)					Ion-Beam Deposition Equipment Irises (See Diaphragms, Iris) Isolators (See Optical Isolators; Optoisolators)
				Infrared Components (See separate listings under Coatings; Detectors; Filters; Lenses; etc.) Infrared Control Systems Infrared Crystals (See Crystals, Infrared) Infrared Detectors and Components (See Cold Shields; Detectors, Infrared) Infrared Fibers (See Fiber Optic Fibers, Infrared) Infrared Interferometers (See Interferometers, Infrared) Infrared Lasers (See Lasers, Far-Infrared; Lasers, Mid-Infrared; Lasers, Near-Infrared)					Job Shop Services (See Laser Job Shop Services; and separate listings under Laser Cutting; Laser Drilling; Laser Machining; etc.) K Kerr Cells (See Laser Q-Switches; Modulators, Electro-Optic) Kits (See Educational Kits/Products) Klystron Tubes
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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Labels and Tags, Fiber Optic (See Fiber Optic Labels and Tags) Laboratory Instruments and Supplies Laboratory Services (See Failure Analysis; Laser Applications; Surface Analysis; Testing) Lamp Housings (See also Machine Vision Mounts and Enclosures) Lamps (See Fiber Optic Illuminators; Light Sources) Laparascopy Systems (See Laser Systems, Laparoscopy) Lapping and Polishing Machinery (See Diamond Tools and Machining Equipment; Grinding and Polishing Machinery)					Laser Dye Circulators (See Dye Circulators) Laser Dyes (See Dyes) Laser Encoders (See Encoders, Laser) Laser Engraving Services (See Laser Job Shop Services; Laser Scribing and Engraving Services) Laser Entertainment and Light Shows Laser Flashlamps (See Flashlamps/Flashtubes) Laser Gases (See Gases for Lasers) Laser Glass (See Glass, Laser) Laser Image Scanners (See Scanners, Laser) Laser Job Shop Services (See also separate listings under Laser Cutting, Drilling, Machining, etc.) Laser Lamps (See Light Sources, Laser Lamp) Laser Light Engines (See Light Engines)
				Lapping and Polishing Services Laps					Laser Machining Services (See also Laser Job Shop Services)
				Laser (See Lasers) Laser Accessories (See Amplifiers; Attenuators; Choppers; Collimators; Modelockers; Modulators and Deflectors; Mounts; Positioning Equipment; Scanners; Shutters; Tables)					Laser Marking Services (See also Laser Job Shop Services) Laser Micrometers (See Micrometers, Laser) Laser Modelockers (See Modelockers, Laser) Laser Optics (See Optics, Laser)
				Laser Aiming Devices Laser Amplifiers (See Amplifiers, Laser)					Laser Pointers Laser Power Meters
				Laser Anemometers Laser Applications Laboratory Services Laser Barriers, Enclosures and Screens (See also Laser Safety Equipment) Laser Beam Profilers (See Beam Profilers, Laser) Laser Beam Terminators (See Beam Terminators)					Laser Power Supplies (See Power Supplies, Laser) Laser Q-Switches Laser Raman Spectrometers (See Laser Systems, Raman Spectrometer) Laser Rental Equipment (See Rental Equipment, Laser)
				Laser Bores (See Laser Tubes and Bores) Laser Calibration Equipment					Laser Repair Services Laser Replacement Parts
				Laser Capacitors Laser Cavities Laser Cells					Laser Rod Repair Services Laser Rods and Other Amplifying Materials Laser Safety Equipment (See also Laser Barriers,
				Laser Characterization Systems, Automated Laser Collimation Testing Equipment Laser Components, Solid-State Laser Cooling Equipment Laser Crystals (See Crystals, Laser) Laser Cutting Services					Enclosures and Screens) Laser Safety Eyewear Laser Safety Services Laser Scanners (See Scanners, Laser) Laser Scribing and Engraving Services (See also Laser Job Shop Services)
				(See also Laser Job Shop Services) Laser Damage Testing (See Testing, Laser Damage)					Laser Slabs Laser Software (See Software)
				Laser Delivery Systems, Fiber Optic (See Fiber Optic Laser Delivery Systems) Laser Delivery Systems, Industrial					Laser Stabilization Systems Laser System Design and Engineering Services Laser Systems, Ablation
				Laser Delivery Systems, Medical Laser Designators (See Laser Systems, Military; Laser Systems, Target Designation					Laser Systems, Accessories Laser Systems, Alignment Laser Systems, Annealing
				and Illumination) Laser Diode Arrays Laser Diode Collimating Lenses (See Lenses, Laser Diode Collimating)					Laser Systems, Balancing Laser Systems, Barcode Scanners (See Barcode Readers) Laser Systems, Biomedical
				Laser Diode Drivers (See Power Supplies, Diode Laser) Laser Diode Modules Laser Diode Packaging Materials					(See also separate listings by application) Laser Systems, Biostimulation
				(See also Infrared Materials; Semiconductor Materials) Laser Diodes (See Fiber Optic Laser Diodes; Lasers, Diode) Laser Diode Spectrometers (See Spectrometers, Laser Diode) Laser Diode Test Equipment					Laser Systems, Bonding Laser Systems, Cardiovascular/Angioplasty Laser Systems, Character Generation Laser Systems, Communications Laser Systems, Communications, Wireless Laser Systems, Construction Laser Systems, Contour Measuring
				Laser Displays (See Displays, Laser) Laser Drilling Services (See also Laser Job Shop Services)					Laser Systems, Cutting Laser Systems, Dental Laser Systems, Dermatology/Plastic Surgery
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Mfr. Stock Items Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1 2	3	4	Category Heading	1	2	3	4	Category Heading
			Laser Systems, Display (See Displays, Laser) Laser Systems, Drilling Laser Systems, Ear, Nose and Throat Laser Systems, Engraving (See Laser Systems, Scribing and Engraving) Laser Systems, Entertainment Laser Systems, Environmental Monitoring Laser Systems, Fiber (See Fiber Optic Laser Delivery Systems; Laser Delivery					Laser Systems, Target Designation and Illumination Laser Systems, Thoracic Surgery Laser Systems, Urology Laser Systems, Velocimetry Laser Systems, Vibration Measurement (See also Accelerometers) Laser Systems, Videodisc (See Videodisc Recording Systems and Equipment) Laser Systems, Weapon Simulation
			Systems, Medical; Lasers, Fiber) Laser Systems, Fingerprint Detection					Laser Systems, Welding Laser Systems, Wire Stripping
			Laser Systems, Forensic Laser Systems, Gastroenterology		Ш	Ш		Laser Systems, Wire Stripping Laser Systems, Wireless (See Laser Systems, Communications, Wireless)
			Laser Systems, Gynecology Laser Systems, Heat Treating					Laser Tubes and Bores Laser Tweezers (See Optical Tweezers)
			Laser Systems, Holographic Laser Systems, Inspection					Laser Welding Services (See also Laser Job Shop Services)
			Laser Systems, Interferometry Laser Systems, Laparoscopy					Laser-Induced Breakdown Spectrometers (See Spectrometers, Laser-Induced Breakdown)
	П		Laser Systems, Lidar (See Lidar Systems) Laser Systems, Lithotripsy					Lasers, Alexandrite Lasers, ArF
			Laser Systems, Machining Centers Laser Systems, Marking					Lasers, Argon-Ion Lasers, CO
			Laser Systems, Mask Repair and Manufacture Laser Systems, Medical					Lasers, CO ₂ CW Lasers, CO ₂ Pulsed
			(See also separate listings by application) Laser Systems, Metrology					Lasers, Copper Vapor (See Lasers, Metal Vapor) Lasers, Diode
			Laser Systems, Microlithography (See also Microlithography Equipment)					(See also Fiber Optic Laser Diodes) Lasers, Diode, Aluminum-Free
			Laser Systems, Micromachining Laser Systems, Microsurgery					Lasers, Diode — Blue Lasers, Diode — Green
			Laser Systems, Military Laser Systems, Motion Measurement					Lasers, Diode-Pumped Solid-State Lasers, Diode, Tunable External Cavity
			Laser Systems, Nanotechnology (See Nanotechnology, Lasers and Laser Systems)					Lasers, Distributed Bragg Reflector (DBR) Lasers, Distributed Feedback (DFB)
			Laser Systems, Neurosurgery Laser Systems, Nondestructive Testing					Lasers, Doubled YAG Lasers, Dye — Flashlamp-Pumped
			Laser Systems, Ophthalmology Laser Systems, Orthopedics					Lasers, Dye — Laser-Pumped Lasers, Dye — Solid-State
			Laser Systems, Photocoagulator (See Laser Systems, Medical)					Lasers, Er:Glass Lasers, Er:YAG
	Ш		Laser Systems, Photodynamic Therapy/Oncology Laser Systems, Plasma Diagnostic (See Plasma and Fusion Diagnostic Systems)			Ш		Lasers, Excimer Lasers, External Cavity (See Lasers, Diode,
			Laser Systems, Pollution Detection Laser Systems, Printing and Platemaking					Tunable External Cavity) Lasers, Eye Safe Lasers, Far-Infrared
	H		Laser Systems, Process Control Laser Systems, Quality Control (See					Lasers, Femtosecond Lasers, Fiber
	П		Quality Control and Inspection Systems) Laser Systems, Raman Spectrometer					Lasers, Fluorine Lasers, Frequency Doubling Kits
			Laser Systems, Ranging, Navigation and Tracking Laser Systems, Reconnaissance					Lasers, GaAlAs Lasers, GaAs
			Laser Systems, Recording Laser Systems, Remote Sensing	_		_		Lasers, Gold Vapor (See Lasers, Metal Vapor) Lasers, HeCd
			Laser Systems, Resistor Trimmers Laser Systems, Robotics (See Robotic					Lasers, HeNe Lasers, High-Energy
			Systems and Equipment) Laser Systems, Scanners (See Barcode					Lasers, Ho:YAG Lasers, Ho:YLF
			Readers; Scanners, Laser) Laser Systems, Scribing and Engraving					Lasers, InGaAIP Lasers, InGaAs
			Laser Systems, Security and Surveillance Laser Systems, Soldering					Lasers, InGaAsP Lasers, Injection LED
			Laser Systems, Spectroscopy Laser Systems, Surface Modification					Lasers, Injection, Long-Wavelength Lasers, Injection, Short-Wavelength
			Laser Systems, Surgical (See also separate listings by application)					Lasers, InP Lasers, Ion (See Lasers, Argon-Ion;
1 2	3	4	Laser Systems, Surveying	1	2	3	4	Lasers, Krypton-Ion)

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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Lasers, KrF Lasers, Krypton-Ion Lasers, Laser Amplifier Lasers, Metal Vapor Lasers, Mid-Infrared Lasers, Mode-Locked Lasers, Multigas (Other) Lasers, Nanosecond Lasers, Narrowband Lasers, Nd:Glass Lasers, Nd:YAG					Lenses, Catadioptric Lenses, CCD Lenses, CCTV Lenses, CMOS Lenses, Complex Lenses, Computer Imaging Lenses, Condenser Lenses, Conical Lenses, Corrected for Underwater Use Lenses, Cylindrical Lenses, Diamond-Turned (See Optics,
				Lasers, Nd:YLF Lasers, Nd:YVO ₄ Lasers, Near-Infrared Lasers, Neon-Copper Lasers, Neon-Ion Lasers, Nitrogen Lasers, Nondiode-Pumped Solid-State Lasers, Picosecond Lasers, Q-Switched Lasers, Quantum Cascade Lasers, Ruby Lasers, Semiconductor (See Lasers, Diode;					Diamond-Turned) Lenses, Diffraction-Limited Lenses, Diffractive Lenses, Eyepieces Lenses, Fixed Focal Length Lenses, Fresnel Lenses, GRIN (Graduated Refractive Index) Lenses, High-Resolution Lenses, Infrared Lenses, Large Lenses, Large-Format Lenses, Laser
				Lasers, Injection) Lasers, Supercontinuum Lasers, TEA Lasers, Terahertz Lasers, Testing (See Testing, Lasers) Lasers, Thulium Lasers, Ti:Sapphire					Lenses, Laser Diode Collimating Lenses, Laser Scanning Lenses, LLL (See Low-Light-Level Instrumentation, Optics) Lenses, Machine Vision Lenses, Microfilm Lenses, Microscope
				Lasers, Tripled YAG Lasers, Tunable Diode (See also Lasers, Diode, Tunable External Cavity) Lasers, Ultrafast Pulsed Lasers, Ultraviolet Lasers, Used/Surplus Lasers, Vertical-Cavity Surface-Emitting (VCSELs) Lasers, ZnSe					Lenses, Miniature (See Micro-Optics; Nano-Optics; Optics) Lenses, Molded Lenses, Molding (See Lens Molding Services) Lenses, Monochromatic Lenses, Multiple Image Lenses, Optical Disc Lenses, Plastic (See Optics, Plastic) Lenses, Precision Glass Balls
				Laser-to-Fiber Couplers Lathes (See Glassworking Equipment) Lead Screws (See Positioning Equipment; Screws) Leak Detectors LED (See Displays, Light-Emitting Diode; Fiber Optic Light-Emitting Diodes; Light Engines; Light-Emitting Diode Measurement Systems; Light-Emitting Diode Packaging Materials; Light-Emitting Diodes; Microscopes, Light-Emitting Diode; Power Supplies, Light-Emitting Diode; Testing, Light-Emitting Diode)					Lenses, Prismatic Lenses, Process (See Lenses, Complex) Lenses, Projection Lenses, Radiation Resistant Lenses, Relay Lenses, Sapphire Lenses, Simple Lenses, Spheric (See also Lenses, Ball) Lenses, Telecentric Lenses, Telescope
				Lens Arrays (See also Microlens Arrays) Lens Assemblies (See Optical Assemblies) Lens Blanks (See Blanks, Lens) Lens Centering Equipment (See Centering and Edging Machines) Lens Design Services Lens Molding Services Lens Mounts (See Mounts) Lens Testing Equipment (See also Benches, Optical)					Lenses, Television Lenses, Toroidal Lenses Ultraviolet Lenses, Wide Angle Lenses, Zoom, Variable Focal Length Levels, Optical LIBS (See Spectrometers, Laser-Induced Breakdown) Lidar Systems Light Amplifiers (See Amplifiers, Light) Light Engines
1	2	3	4	Lens Tissue, Lint-Free Lenses, Achromatic Lenses, Acylindrical Lenses, Anamorphic Lenses, Aspheric Lenses, Ball (See also Lenses, Spheric)		2	3	4	Light Instrumentation Calibration Services (See Calibration Services, Light Instrumentation) Light Meters (See Exposure Meters, Photoelectric; Photometers) Light Pens Light Pipes
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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Light Pulse Generators (See Generators, Light Pulse) Light Source Controllers Light Source Enclosures (See Lamp Housings; Machine Vision Mounts and Enclosures) Light Sources, Arc					Light-Shaping Diffusers (See Diffusers, Light-Shaping) Linear Actuators (See Actuators, Linear) Linear Amplifiers (See Amplifiers, Linear) Linear Arrays Linear Encoders (See Encoders, Linear)
				Light Sources, Broadband Light Sources, Calibrated Light Sources, Coherent Light Sources, Deuterium Light Sources, Electroluminescent Light Sources, Fiber Optic (See Fiber Optic Illuminators; Fiber Optic Lightguides)					Linear Stages (See Stages, Linear) Liquid Chromatographs Liquid Crystal Displays (See Displays, Liquid Crystal) Liquid Crystal Light Valves Liquid Crystals Liquids (See Immersion Liquids; Polyimide Liquids; Refractive Index Gels and Liquids)
				Light Sources, Fluorescent Light Sources, Gas Discharge (Other than Mercury or Xenon) Light Sources, Halogen Light Sources, Hollow Cathode Light Sources, Incandescent					Lithography Equipment and Services (See Electron-Beam Instruments; Electron-Beam Lithography Systems; Gratings, Lithography; Laser Systems, Microlithography; Microlithography Equipment; Photolithography Equipment; Photolithography Services; Photomasks; Rapid
				Light Sources, Infrared Light Sources, Inspection Light Sources, Krypton Light Sources, Laser Diode (See Fiber Optic Laser Diodes; Lasers, Diode) Light Sources, Laser Lamp Light Sources, Light-Emitting Diode (See					Prototyping Systems; Stereolithography Equipment; Stereolithography Services) Lock-In Amplifiers (See Amplifiers, Lock-In) Luminance Meters (See Illuminometers) Luminescence Equipment (See also Bioluminescence Equipment; Microscopes, Bioluminescence)
				Fiber Optic Light-Emitting Diodes; Light-Emitting Diodes) Light Sources, Long Arc Light Sources, Medical/Biomedical Light Sources, Miniature Light Sources, Point Light Sources, Ringlights (See Ringlights) Light Sources, Stroboscopic Light Sources, Tungsten					Lummer-Gehrcke Plates (See Interferometers, Other) M Machined Metal Components (See Metal Components, Machined) Machinery, Optical (See Diamond Tools and Machining Equipment; Grinding and Polishing Machinery; Tools and Machinery) Machines, Centering and Edging (See Centering
				Light Sources, Ultraviolet Light Sources, Underwater Light Sources, VUV Light Sources, Xenon Light-Emitting Diode Chips Light-Emitting Diode Displays (See Displays, Light-Emitting Diode) Light-Emitting Diode Light Engines (See					and Edging Machines) Machines, Cut-Off (See Slicing and Cutting Machines) Machine Vision (See Cameras; Illumination Systems; Image Sensors; Lenses; Software; Vision Systems) Machine Vision Mounts and Enclosures (See also Lamp Housings; Mounts) Machine Vision Systems (See also Image Processing Equipment;
				Light Engines) Light-Emitting Diode Measurement Systems Light-Emitting Diode Microscopes (See Microscopes, Light-Emitting Diode)					Inspection Systems; Vision Systems) Machining Services, Diamond Machining Services, Laser (See Laser Job Shop Services; Laser Machining Services)
				Light-Emitting Diode Packaging Materials Light-Emitting Diode Power Supplies (See Power Supplies, Light-Emitting Diode) Light-Emitting Diode Testing (See Testing, Light-Emitting Diode) Light-Emitting Diodes, Fiber Optic (See					Machining Services, Optical Materials Machining Systems, Laser (See Laser Systems, Machining Centers) Magnetic Shields (See Shields, Magnetic) Magneto-Optics (See Crystals, Magneto-Optic; Faraday Rotators; Modulators, Magneto-Optic)
				Fiber Optic Light-Emitting Diodes) Light-Emitting Diodes, Infrared Light-Emitting Diodes, Medical Light-Emitting Diodes, Organic Light-Emitting Diodes, Superluminescent Light-Emitting Diodes, Ultraviolet Light-Emitting Diodes, Visible Light-Emitting Diodes, White Light-Emitting Diode Switches Lightguides, Fiber Optic (See Fiber Optic Lightguides)					Magnets Magnifiers, Binocular Magnifiers, Handheld Compound Type Magnifiers, Illuminated Magnifiers, Simple Maintenance Management Services (See Equipment Maintenance Management Services) Management Training Services Manufacturing Consulting (See Consulting Services, Manufacturing) Manufacturing Control Systems Software (See
1	2	3	4	Lightguides, Liquid	1	2	3	4	Software)

Sı	ıbca	tego	ry		Sı	ubca	tegor	y	
Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Manufacturing Equipment (See Fiber Optic Drawing and Manufacturing Equipment; Used/Surplus Manufacturing Equipment) Mapping Equipment (See Reconnaissance Mapping Systems) Marketing Consulting Services Mask Repair Systems (See Laser Systems, Mask Repair and Manufacture) Masks, Film Masks for Evaporation/Deposition Masks, Phase Materials (See Abrasives; Cements and Adhesives, Optical; Chemical Vapor Deposition Materials;					Microscope Accessories Microscope Eyepieces (See Lenses, Eyepieces) Microscope Immersion Liquids (See Immersion Liquids, Microscopy) Microscope Objectives (See Lenses, Microscope) Microscopes, Atomic Force Microscopes, Automated Microscopes, Bioluminescence Microscopes, Confocal Microscopes, Coordinate Measuring Microscopes, Electrically Scanned Image Microscopes, Electron (See Microscopes, Scanning Electron; Microscopes, Transmission Electron)
				Cleaning Materials; Coating Materials; Crystals; Fiber Optic Epoxies; Fiber Optic Materials; Glass; Imaging Materials; Infrared Materials; Nanomaterials; Optical Materials; Quartz and Silica, Fused; Semiconductor Materials; Thermal Interface Materials; Ultraviolet Materials) Mathematical Software (See Software, Mathematical) Measuring Systems, Linewidth and Dimension					Microscopes, Fluorescence Microscopes, Forensic Microscopes, General Compound Types Microscopes, Infrared Microscopes, Interference Microscopes, Laser Scanning Microscopes, Light-Emitting Diode (LED) Microscopes, Medical/Biomedical
				Mechanical Component Packaging Medical Imaging (See Borescopes; Cameras, Medical; Imaging Systems, Optical Coherence Tomography) Medical Lasers (See separate listings under Laser Systems)					Microscopes, Metallurgical Microscopes, Near-Field Scanning Optical (NSOM) Microscopes, Petrographic Microscopes, Phase Contrast Microscopes, Polarizing
				MEMS (Microelectromechanical Systems) Metal Components, Machined Metal Finishing/Plating (See Coatings, Metallic; Optical Plating) Metal Optics (See Optics, Metal) Metal Vapor Lasers (See Lasers, Metal Vapor) Metallorganic Chemical Vapor Deposition Films (See MOCVD Films) Meters, Brightness (See Illuminometers) Meters, Energy and Power (See Energy Meters; Fiber Optic Power Meters; Laser Power Meters; Photometers; Power Meters; Radiometers; Spectroradiometers) Meters, Exposure (See Exposure Meters) Meters, Polarization-Dependent Loss					Microscopes, Projection Microscopes, Raman Microscopes, Research Microscopes, Scanning Electron (SEM) Microscopes, Scanning Probe Microscopes, Scanning Tunneling Microscope Stages Microscopes, Stereo Microscopes, Toolmaker Microscopes, Transmission Electron (TEM) Microscopes, Traveling or Measuring (See Comparators) Microscopes, Ultraviolet Microscopes, Video Microscopes, Video Microspectrophotometers
				(See Polarization-Dependent Loss Meters) Meters, Wavelength (See Wavelength Meters) Metrology Services Mica (See Crystals, Birefringent and Polarizing)					Microspheres Microwave Power Supplies (See RF/Microwave Power Supplies) Mid-Infrared (See Cameras; Fiber Optic Fibers;
				Microchannel Plates Microdensitometers Microelectromechanical Systems (See MEMS) Microfilm Cameras (See Cameras, Microfilm) Microinterferometers (See Fiber Optic Microinterferometers)					Lasers; Spectrometers) Miniature Lamps (See Light Sources, Miniature) Miniature Optics (See Micro-Optics; Nano-Optics; Optics) Mirror Blanks (See Blanks, Mirror) Mirror Mounts (See Mounts, Optical)
				Microlens Arrays Microlithography Equipment Microlithography Systems (See Laser Systems, Microlithography)					Mirrors, Aspheric Mirrors, Astronomical Mirrors, Beamsplitting Mirrors, Cold
				Micromachining Systems Micromanipulators Micrometers, Laser Micrometers, Optical Micrometers, Stage					Mirrors, Concave and Convex, Spherical Mirrors, Deformable Mirrors, Diamond-Turned (See Optics, Diamond-Turned) Mirrors, Fabry-Perot Etalon
				Micro-Optics (See also Nano-Optics; Optics) Micro-Optoelectromechanical Systems (See MOEMS) Microphotometers					Mirrors, Flat — Optical Quality Mirrors, Galvanometer (See Mirrors, Flat) Mirrors, Glass and Glass-Ceramic Mirrors, Hot
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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Mirrors, Laser Mirrors, Metal Mirrors, Multilayer (See also Coatings, Optical) Mirrors, Off-Axis Paraboloids and Ellipsoids Mirrors, Partial (See Mirrors, Beamsplitting; Partial Reflectors) Mirrors, Pellicle (See Pellicles, Optical) Mirrors, Playsonel					Mounts, Tripod Mounts, Vibration-Isolated Multichannel Analyzers (See Analyzers, Multichannel) Multichannel Scalers (See Scalers, Multichannel) Multimeters (See Fiber Optic Multimeters; Optical Multimeters) Multiplexers, Fiber Optic (See Fiber Optic Wavelength Division Multiplexers)
				Mirrors, Polygonal Mirrors, Replicated					Multiplexers, Optical (See Optical Multiplexers)
				(See also Optics, Replicated) Mirrors, Spherical (See Mirrors, Concave and Convex, Spherical) Mirrors, Superflat Mirrors, Ultraviolet Mirrors, X-Ray Mirror Testing Equipment					N Nanomaterials (See also Quantum Dots) Nano-Optics (See also Micro-Optics; Optics) Nanopositioning Equipment
	_			Missile- and Satellite-Borne Optics (See Optics, Missile- and Satellite-Borne)	_		_		(See also Micropositioners; Positioning Equipment)
				MOCVD Films Modelockers, Laser Modems (See Fiber Optic Modems) Modulation Transfer Function					Nanotechnology, Biomedical/Medical Nanotechnology, Coatings and Thin Films Nanotechnology, Consulting (See Consulting Services, Nanotechnology)
П				Analysis/Measurement Equipment Modulators and Deflectors, Acousto-Optic					Nanotechnology, Imaging Systems (See Imaging Systems, Nanotechnology)
				Modulators, Electro-Optic Modulators, Fiber Optic (See Fiber Optic Modulators)					Nanotechnology, Lasers and Laser Systems Nanotechnology, Microscopy
				Modulators, Magneto-Optic Modulators, Mechanical (See Choppers)					Nanotechnology, Semiconductor Nanotechnology, Test and Measurement
				Modulators, Photoelastic Modulators, Spatial Light (See Spatial					Networks (See Fiber Optic Networks) Night-Vision Devices
				Light Modulators) MOEMS (Micro-Optoelectromechanical Systems) Molded Optics (See Blanks, Molded; Lenses, Simple) Molding Services (See Lens Molding Services)					Nondestructive Testing Equipment (See Holographic Nondestructive Testing Equipment; Inspection Systems; Laser Systems, Nondestructive Testing)
				Molds, Polished for Glass and Plastic Molding Monitors (See Air Quality Monitors; Coating Testing and Monitoring Equipment; Current Monitors; Film Thickness Monitors; Optical Monitors; Television Monitors)					Nondestructive Testing Instruments, Eddy Current Nonlinear Optical Materials (See also Crystals, Nonlinear)
				Monochromators (See also Spectrum Measuring Instruments)					O Chications (Oct Lance)
				Motion Analysis Equipment (See also Cameras, Motion Analysis; Laser Systems, Motion Measurement)					Objectives (See Lenses) Object Recognition Systems (See Imaging Systems, Object Recognition) OLED (See Displays; Light-Emitting Diodes)
				Motion Controllers Motor Controllers and Drivers					OPO (See Parametric Oscillators) Optical Add-Drop Module
				Motor Polygon Assemblies Motors, RC					Optical Amplifiers (See Amplifiers, Optical) Optical Assemblies
				Motors, DC Motors, DC Motors, Linear					Optical Attenuators (See Fiber Optic Attenuators) Optical Benches (See Benches)
				Motors, Linear Motors, Piezo Motors, Scapping					Optical Character Recognition Systems (See Imaging Systems, Optical Character Recognition)
				Motors, Scanning Motors, Servo Motors, Stopper					Optical Cleaning Equipment (See Cleaning Materials and Equipment for Optics)
				Motors, Stepper Motors, Synchronous Mounts, Fiber Optic (See Fiber Optic Positioning Equipment)					Optical Coatings (See Coatings, Optical) Optical Coherence Tomography Imaging Systems (See Imaging Systems, Optical Coherence Tomography)
				Mounts, Laser Mounts, Optical Mounts, Optical, Rings Mounts, Pan and Tilt (See also Machine Vision Mounts and Enclosures)					Optical Communications (See Communications Systems, Optical; Fiber Optic Communications Systems; Laser Systems, Communications) Optical Comparators (See Comparators) Optical Components (See separate listings under
				Mounts, Sidereal Mounts, Telescope					Coatings; Filters; Gratings; Lenses; Mirrors; Optics; Prisms; Windows)
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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Optical Computing Equipment and Systems Optical Correlators Optical Couplers Optical Delay Generators Optical Design and Engineering Services Optical Design Equipment					Optics, Binary Optics, Custom Optics, Diamond-Turned Optics, Electroformed Optics, Fiber Optic Miniature Optics, Freeform
				Optical Design Equipment Optical Diodes Optical Disks Optical Encoders (See Encoders) Optical Fabrication Machinery (See Diamond Tools					Optics, Holographic Optics, Infrared (See also separate listings under Coatings; Filters; Lenses; etc.)
				and Machining Equipment; Grinding and Polishing Machinery; Tools and Machinery) Optical Fabrication Services (See Optics, Custom; Machining Services; Prototypes)					Optics, Large Optics, Laser (See also separate listings under Coatings; Filters; Lenses; etc.) Optics, Metal
				Optical Fiber (See Fiber Optic Fibers) Optical Flats Optical Frequency Combs (See Frequency Combs) Optical Frequency Domain Reflectometers					Optics, Micro (See Micro-Optics) Optics, Miniature Optics, Missile- and Satellite-Borne Optics, Nano (See Nano-Optics)
				(See Fiber Optic Optical Frequency Domain Reflectometers) Optical Isolators Optical Materials					Optics, Plastic (See also Coatings, Plastic; Fiber Optic Fibers, Plastic; Filters, Plastic; Mirrors, Plastic) Optics, Replicated
				(See also separate listings under Abrasives; Ceramics; Coating Materials; Crystals; Fiber Optic Materials; Glass; Infrared Materials; Quartz; Ultraviolet Materials)					(See also Mirrors, Replicated) Optics, Schlieren Optics, Submillimeter Optics, Terahertz
				Optical Monitors Optical Mounts (See Mounts) Optical Multimeters Optical Multiplexers (See also Fiber Optic Wavelength Division Multiplexers) Optical Networks (See Fiber Optic Networks)					Optics, X-Ray Optoisolators Optomechanical Equipment and Systems Organizational Consulting Services Oscillators, Parametric (See Parametric Oscillators)
				Optical Parametric Devices (See Parametric Devices, Optical; Parametric Oscillators) Optical Plating Services (See also Coatings) Optical Polishing Compounds (See Polishing Compounds)					Oscilloscopes OTDR (See Optical Time-Domain Reflectometers) Ovens
				Optical Profilers (See Surface Profilers) Optical Pulse Analyzers (See Analyzers, Pulse) Optical Radars Optical Rails (See Rails, Optical) Optical Scanning Systems (See Imaging Systems; Scanners, Optical) Optical Signal Sources (See Generators, Light Pulse) Optical Simulators (See Simulators)					Packaging Materials (See Cases and Containers; Laser Diode Packaging; Light-Emitting Diode Packaging) Panel Meters (See Digital Panel Meters) Parallel Processors Parametric Devices, Optical Parametric Oscillators Partial Reflectors Particle Counting Equipment
				Optical Software (See Software) Optical Sorting Equipment					Particle Size Analyzers Particle Size Standards
				Optical Tables (See Tables) Optical Talk Sets Optical Testing Instruments Optical Thin-Film Analysis Equipment (See Coating					Patch Cords (See Fiber Optic Patch Cords) Patent Development Services (See Marketing Consulting Services) Pattern Generators
				Testing and Monitoring Equipment) Optical Thin-Film Analysis Services Optical Thin-Film Design Services Optical Time-Domain Reflectometers Optical Transceivers (See Fiber Optic Transceivers;					Pattern Recognition Systems (See Imaging Systems, Pattern Recognition) Patterns (See Resolution Targets; Reticles; Test Patterns) Pellicles, Optical
				Transceivers) Optical Transfer Function Instrumentation (See also Modulation Transfer Function Analysis/Measurement Equipment)					Periscope Systems (See Imaging Systems, Periscope) Phase Masks (See Masks, Phase) Phosphors (See Crystals, Scintillation) Photoacoustic Detectors (See
				Optical Tweezers Optics, Adaptive Optics, Astronomical					Detectors, Photoacoustic) Photoacoustic Spectroscopy Equipment Photocathodes
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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Photocells (See Detectors) Photocoagulators, Laser (See Laser Systems, Biomedical; Laser Systems, Medical) Photoconductors (See Detectors, Photovoltaic and Photoconductive) Photodetectors (See Detectors) Photodiode Arrays (See Detector Arrays)					Pinholes (See Apertures) Pitch Polishing Compounds Plane-Parallel Plates (See Flats) Plasma and Fusion Diagnostic Systems Plasma Cleaners (See Cleaning Materials and Equipment for Optics) Plasma Power Supplies (See Power Supplies, Plasma)
				Photodiodes (See also Detectors) Photoelastic Equipment and Supplies Photoelastic Modulators (See Modulators, Photoelastic)					Plasma Sources Plastic Fibers (See Fiber Optic Fibers, Plastic) Plastic Optics (See Coatings, Plastic; Fiber Optic Fibers, Plastic; Filters, Plastic; Mirrors, Plastic;
				Photoelectric Control Systems Photoelectric Detectors (See Detectors, Photoelectric) Photoelectric Exposure Meters (See Exposure Meters, Photoelectric)					Optics, Plastic) Plastic Tubing Platemaking Systems (See Laser Systems, Printing and Platemaking) Plates (See Films and Plates)
				Photoelectric Relays Photoelectric Sensors Photoemissive Detectors (See Detectors, Photoemissive) Photogrammetric Equipment (See also Cameras, Aerial)					PMT (See Photomultiplier Tubes) Pockels Cells Polarimeters Polariscopes Polarization Analyzers Polarization Controllers
				Photographic Chemicals Photographic Films (See also Films and Plates)					Polarization-Dependent Loss Meters Polarizers, Fiber Optic (See Fiber Optic Polarizers) Polarizers, Infrared Polarizers, Shoot (See Alea Printed Polarizers)
				Photographic Services Photographic Systems Photolithography Equipment Photolithography Services Photomasks Photometers					Polarizers, Sheet (See also Prisms, Polarizing) Polarizers, Ultraviolet Polarizers, Visible Polarizers, Wire Grid Polarizing Beamsplitters (See Beamsplitters, Polarizing)
				Photometers, Low-Light-Level (See Low-Light-Level Instrumentation, Photometers) Photometers/Radiometers (See also Energy Meters; Power Meters; Radiometers)					Polarizing Crystals (See Crystals, Birefringent and Polarizing) Polarizing Prisms (See Prisms, Polarizing) Polishing Compounds Polishing Equipment (See Fiber Optic
				Photometric Detectors Photometric Spheres Photomicrographic Systems (See Cameras, Microscope; Microscope Accessories)					Polishing; Grinding and Polishing Machinery) Polishing Pads and Cloths Polishing Services (See Fiber Optic Polishing Services; Lapping and Polishing Services, Custom)
				Photomultiplier Tube Housings Photomultiplier Tubes (See also Detectors) Photomultiplier Tube Shields Photon Counters					Pollution Measurement Systems (See Air Pollution Measurement and Control Systems, Optical; Laser Systems, Pollution Detection; Water Pollution Measurement and Detection Systems) Polygons (See Mirrors, Polygonal;
				Photonics Contract Manufacturing (See Contract Manufacturing, Photonics) Photonics Integrated Circuits Photonics Integrated Component Manufacturing Equipment					Motor Polygon Assemblies) Polyimide (See Fiber Optic Fibers, Polyimide; Plastic Tubing) Polyimide Liquids Polymer Optics (See Optics, Plastic)
				Photonics Integrated Component Test Equipment Phototransistors (See Detectors) Phototubes (See Detectors) Photovoltaic Detectors (See Detectors; Solar Cells and Wafers; Solar Photovoltaic Systems) Photovoltaic Materials (See Solar Photovoltaic Assembly Materials and Equipment) Physical Vapor Deposition Equipment (See Sputtering Equipment) Picosecond Cameras (See Cameras, Picosecond) Picosecond Detectors (See Detectors, Picosecond) Piezo Motors (See Motors, Piezo) Piezoelectric Actuators (See Actuators, Piezoelectric) Piezoelectric Positioners (See Positioning Equipment; Positioning Stages) Piezoelectric Transducers and Ceramic Materials					Positioning Equipment (See Benches; Fiber Optic Positioning Equipment; Hexapods; Micrometers; Micropositioners; Motion Controllers; Motors; Mounts; Nanopositioning Equipment; Positioning Stages; Rails; Servo-Positioning Systems; Tables; Vibration Isolators) Positioning Equipment, Electronic Positioning Equipment, Microprocessor-Controlled Positioning Equipment, Motorized Positioning Equipment, Piezoelectric Positioning Stages, Linear Positioning Stages, Piezoelectric Positioning Stages, Rotary Position Sensing Equipment Power Controllers and Conditioners Power Converters
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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Power Meters (See also Energy Meters; Fiber Optic Power Meters; Laser Power Meters; Photometers; Radiometers; Spectroradiometers) Power Supplies, Arc Lamp Power Supplies, Capacitor Charging Power Supplies, DC Magnetron Power Supplies, Deuterium Lamp					Purification Equipment (See Filtration/Purification Equipment; Gas Purification Systems and Equipment) Purification Services (See Gas Purification Services) Pyroelectric Detectors (See Detectors, Pyroelectric) Pyrometers, Optical
				Power Supplies, Diode Laser Power Supplies, Electron-Beam Power Supplies, Flashlamp Power Supplies, Fluorescent Power Supplies, High-Current Power Supplies, High-Energy					Q Q-Switches (See Laser Q-Switches) Quality Control and Inspection Systems (See also Fiber Optic Inspection Equipment; Inspection Systems) Quality Program Consulting Services
				Power Supplies, High-Voltage Power Supplies, Infrared Lamp Power Supplies, Laser Power Supplies, Light-Emitting Diode Power Supplies, Low-Voltage Power Supplies, Microwave (See RF/Microwave Power Supplies)					Quantum Cascade Lasers (See Lasers, Quantum Cascade) Quantum Dots (See also Nanomaterials) Quartz, Crystalline Quartz and Silica, Fused Quartz Wafers (See Wafers, Quartz)
				Power Supplies, Miniature Power Supplies, Modulator Power Supplies, Night-Vision Power Supplies, Photodiode Power Supplies, Photomultiplier Power Supplies, Plasma Power Supplies, Rechargeable (See Energy					R Radar Displays (See Displays, Radar) Radars, Optical (See Optical Radars) Radiation Detectors (See Detectors) Radiation Sources, Infrared
				Systems, Renewable/Sustainable) Power Supplies, Relays (See Relays, High-Voltage) Power Supplies, Tungsten/Halogen Lamp Power Supplies, Ultraviolet Lamp Power Supplies, Uninterruptible Power Supplies, X-Ray and Ion-Beam Power Suppressors Preamplifiers (See Amplifiers, Preamplifier) Printing Systems (See 3D Printing Systems; Barcode Printers; Laser Systems, Printing and Platemaking; Video Printers)					Radiation Sources, Ultraviolet Radiation Sources, Visible Radiation Sources, X-Ray Radiation Standards (See Standards) Radiography Equipment Radioisotope Standards (See Standards) Radiometers (See also Energy Meters; Photometers/Radiometers; Power Meters) Radiometric Detectors Rails, Optical Raman Amplifiers (See Fiber Optic Amplifiers, Raman)
				Prism Blanks (See Blanks, Prism) Prism Couplers Prisms, Nonpolarizing (Such as Amici, Dove, Penta, Right-Angle, Roof, B-Prisms, etc.) Prisms, Polarizing (Such as Nicol,					Raman Analyzers (See Analyzers, Raman) Raman Microscopes (See Microscopes, Raman) Raman Spectrometers (See Laser Systems, Raman Spectrometer) Rangefinders, Laser (See Laser Systems, Ranging,
				Rochon, Wollaston, etc.) Prisms, Wafer Process Control Systems (See Laser Systems, Process Control) Profilers (See Beam Profilers, Laser; Surface Profilers) Profilometers					Navigation and Tracking) Rangefinders, Optical Rapid Prototyping Systems Rare-Earth Elements Reagents Receivers (See Fiber Optic Receivers)
				Profilers Programmable Controllers (See Motion Controllers; Motor Controllers and Drivers) Projection Displays (See Displays, Projection) Projectors, Target (See Target Projectors) Protective Eyewear (See Goggles and Glasses; Laser Safety Eyewear)					Reconnaissance Mapping Systems (See also Infrared Mapping Equipment; Laser Systems, Reconnaissance) Recorders (See Laser Systems, Recording; Strip-Chart Recorders; Videodisc Recording Systems)
				Prototypes, Optical Publications Pulse Amplifiers (See Amplifiers, Pulse) Pulse Analyzers (See Analyzers, Pulse) Pulse Generators (See Generators, Pulse)					Recorders, Data Recorders, Videotape Recruitment Services and Executive Search (See also Sales Personnel Selection Services) Rectifiers, High-Voltage
				Pulse Selectors Pulse Shapers Pulse Suppressors (See Fiber Optic Pulse Suppressors) Pulse Transformers Pumps					Reflecting Objectives (See Mirrors, Astronomical; Mirrors, Concave and Convex) Reflection Standards (See Standards) Reflectometers (See also Optical Time-Domain Reflectometers; Photometers)
1	2	3	4	(See also Cryopumps; Vacuum Pumps)	1	2	3	4	

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	Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
	1	2	3	4	Category Heading	1	2	3	4	Category Heading
					Reflectors (See Beam Reflectors; Partial Reflectors) Refractive Index Gels and Liquids Refractometer Cells (See Cells, Refractometer) Refractometers Relays, High-Voltage Relays, Photoelectric (See Photoelectric Relays)					Saws (See Slicing and Cutting Machines) Scalers, Multichannel Scan Converters Scanners, 3D Scanners, Acousto-Optic Scanners, Barcode (See Barcode Readers;
					Remote Sensing Equipment (See also Laser Systems, Remote Sensing) Renewable Energy/Power (See Energy Systems, Renewable/Sustainable; Solar Photovoltaic Systems)					Imaging Systems) Scanners, Electro-Optic Scanners, Galvanometric Scanners, Handheld Scanners, Image (See Image Scanners)
					Rental Equipment, Electro-Optical Rental Equipment, Fiber Optic (See Fiber Optic Rental Equipment) Rental Equipment, Laser Repair Services for Optical Instruments					Scanners, Infrared Scanners, Laser Scanners, Optical Scanners, Polygon (See Mirrors, Polygonal; Motor Polygon Assemblies)
					and Machinery (See also Camera Repair Services; Laser Repair Services; Laser Rod Repair Services; Vacuum Equipment Repair Services) Repeaters (See Camera Repeaters/Extenders;					Scanners, Resonant Scanners, Terahertz Scanners, Ultraviolet Scanning Motors (See Motors, Scanning) Scanning Systems
					Fiber Optic Repeaters) Replica Gratings (See Gratings) Replicated Optics (See Mirrors; Optics) Replication Services Research and Development Laboratories					(See also Bar-Code Readers; Imaging Systems) Scatterometers Schlieren Optics (See Optics, Schlieren) Scintillation Crystals (See Crystals, Scintillation)
					Resistors (See Capacitors and Resistors) Resolution Targets Resonators, Fiber-Loop (See Fiber-Loop Resonators) Retardation Plates (See Wave Plates) Reticles					Scintillation Detectors (See Detectors, Scintillation) sCMOS (See Cameras, CMOS, Scientific; Image Sensors, sCMOS) Screens, Diffusing — for Light Sources and Lenses
					Retroreflectors RF/Microwave Power Supplies Ring-Laser Gyroscopes (See Gyroscopes, Ring-Laser) Ringlights Robot Calibration Systems					Screens, Front Projection Screens, Lenticular Screens, Rear Projection Screws (See also Positioning Equipment)
					Robot Guidance Systems Robotic Consulting (See Consulting Services, Robotic) Robotic Systems and Equipment					Seals, Metal-to-Glass or other Dielectrics Seals, Metal-to-Quartz Seals, Rubber Security Systems (See Cameras, Identification;
					Robotic Vision Systems (See Vision Systems, Robotic) Rods (See Laser Rods) Rotary Actuators (See Actuators, Rotary) Rotary Encoders (See Encoders, Rotary) Rotary Joints (See Fiber Optic Rotary Joints) Rotation Stages (See Positioning Stages, Rotary) Rotators, Faraday (See Faraday Rotators) Routers (See Fiber Optic Routers) Rubber Molding Services Rubber Seals (See Seals, Rubber) Ruby (See Crystals, Laser; Crystals, Ruby;					Fiber Optic Security Systems; Laser Systems, Security and Surveillance) Semiconductor Detectors (See Detectors, Semiconductor) Semiconductor Materials (See also Crystals, Semiconductor) Sensor Cards (See Infrared Sensor Cards) Sensors (See Detectors; Fiber Optic Sensors; Image Sensors; Photoelectric Sensors; Position Sensing Equipment; Remote Sensing Equipment Temperature Sensors; Vision-Based Sensors; Wavefront Sensors)
					Optical Materials) Rulings, Precision Scale Rulings, Ronchi (See Gratings)					Servo-Control Systems Servomotors (See Motors, Servo) Servo-Positioning Systems Shields, Infrared Radiation (See Cold Shields)
					S Safety Equipment (See Goggles and Glasses; Laser Barriers; Laser Safety Equipment; Laser Safety Eyewear) Sales Personnel Selection Services Sales Representation Services Sapphire (See Crystals, Infrared; Crystals, Sapphire; Optical Materials) Saturable Absorber (See Dyes)					Shields, Infrared Hadiation (See Cold Shields) Shields, Magnetic Shields, Photomultiplier Tube (See Photomultiplier Tube Shields) Short Arc Lamps (See Light Sources, Arc) Shutters, Acousto-Optic (See Modulators and Deflectors, Acousto-Optic) Shutters, Camera Shutters, Camera Shutters, Electromechanical (See also Choppers) Shutters, Electro-Optic (See Modulators, Electro-Optic)
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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Shutters, Fiber Optic (See Fiber Optic Shutters) Shutters, Laser Shutters, Optical Shutters, Variable-Speed Sidereal Mounts (See Mounts) Signal Averagers Signal Generators (See Fiber Optic					Solar Simulators (See Simulators, Solar) Solar Tracking Systems (See Tracking Systems, Solar) Soldering Materials Soleil-Babinet Compensators (See Babinet-Soleil Compensators) Spark Gaps, Laser-Triggered Spatial Light Modulators
				Signal Generators; Generators, Light Pulse) Signal Processing Software (See Software, Signal Processing) Signal-to-Noise Enhancement Systems Silica (See Quartz and Silica, Fused) Silicon (See Crystals, Silicon; Optical Materials)					Speckle Pattern Systems Spectral Analysis Software (See Software) Spectrofluorometers Spectrographs (See also Spectrum Measuring Instruments) Spectrometers, Atomic Absorption
				Silicon Detectors (See Detectors, Silicon Drift; Detectors, Silicon Photomultiplier) Simulators, Electro-Optic Simulators, Infrared Simulators, Optical Simulators, Scene Simulators, Solar Simulators, Weapon (See Laser Systems,					Spectrometers, Atomic Emission Spectrometers, Atomic Fluorescence Spectrometers, Correlation Spectrometers, Divided-Circle Spectrometers, EUV/XUV Spectrometers, Fiber Optic Spectrometers, Fluorescence Spectrometers, Fourier Transform
				Weapon Simulation) Slicing and Cutting Machines — for Crystals, Glass, Quartz, etc. Slicing and Cutting Services — for Crystals, Glass, Quartz, etc. Slits (See Apertures, Precision Including Pinhole) Slurries (See Abrasives, Optical;					Spectrometers, FTIR Spectrometers, Infrared Spectrometers, Laser Diode Spectrometers, Laser-Induced Breakdown Spectrometers, Mass Spectrometers, Mid-Infrared Spectrometers, Near-Infrared
				Polishing Compounds) Sockets Software, Artificial Intelligence Software, Computer Simulation Software, Data Acquisition Software, Data Analysis Software, Data Compression Software, Deep Learning Software, Electronic Design Automation Software, Fiber Optic Network Control Software, Illumination Design Software, Image Analysis Software, Image Compression Software, Image Processing Software, Image Recognition					Spectrometers, Nuclear Magnetic Resonance Spectrometers, Raman (See Laser Systems, Raman Spectrometer) Spectrometers, Rapid-Scan Spectrometers, Terahertz Spectrometers, Ultraviolet Spectrometers, Visible Spectrometers, Visible Spectrometers, X-Ray Spectrophotometer Cells (See Cells, Spectrophotometer) Spectrophotometers, Atomic Absorption Spectrophotometers, Fluorescence Spectrophotometers, Infrared Spectrophotometers, Multichannel
				Software, Image Recognition Software, Imaging Libraries and Toolkits Software, Infrared Thermography Software, Instrument Control Software, Laser Marking Software, Laser System Design Software, Machine Vision Software, Manufacturing Control Systems Software, Mathematical Software, Nanotechnology Software, Optical Design Software, Optical Testing Software, Optical Thin-Film Software, Optomechanical Analysis Software, Signal Processing Software, Spectral Analysis Software, Statistical Quality Control Software, Stray-Light Analysis Software, Surface Analysis Software Solar Cells and Wafers Solar Energy Collectors Solar Photovoltaic Assembly Materials					Spectrophotometers, Multichannel Spectrophotometers, Near-Infrared Spectrophotometers, Ultraviolet Spectrophotometers, Visible Spectrophotometers Spectropolarimeters Spectroradiometers Spectroradiometers Spectroscopic Accessories and Supplies Spectroscopic Standards (See Standards) Spectroscopic Standards (See Standards) Spectroscopy Equipment, Photoacoustic (See Photoacoustic Spectroscopy Equipment) Spectroscopy Systems (See Laser Systems, Spectroscopy) Spectrum Analyzers (See Analyzers, Spectrum; Fiber Optic Spectrum Analyzers) Spectrum Measuring Instruments, Infrared Spectrum Measuring Instruments, Visible Spectrum Measuring Instruments, X-Ray Spheres, Integrating (See Integrating Spheres) Spheres, Photometric (See Photometric Spheres)
				and Equipment Solar Photovoltaic Systems					Spherometers Splicers (See Fiber Optic Splicing Equipment)
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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Sputtered Coatings (See Coatings, Optical) Sputtering Equipment (See also Vacuum Equipment) Sputtering Targets Stage Micrometers (See Micrometers, Stage) Stages (See Positioning Stages)					Targets (See Resolution Targets; Test Patterns) Telecommunications Systems (See Communications Systems; Fiber Optic Communications Systems; Laser Systems, Communications) Telescope Accessories and Supplies Telescope Eyepieces (See Lenses, Eyepieces)
				Standards, Calibration (See Calibration Standards) Standards, Optical (Color, Radiation, Radioisotope, Reflection, Spectroscopic) Standards, Particle Size (See Particle Size Standards) Static Control Products and Materials					Telescope Mounts (See Mounts) Telescopes, Alignment Telescopes, Astronomical Telescopes, Industrial Telescopes, Infrared Telescopes, Sighting or Spotting
				Statistical Quality Control Software (See Software) Stepper Motors (See Motors, Stepper) Stereolithography Equipment (See Rapid Prototyping Systems) Stereolithography Services					Telescopes, Terrestrial Television Cameras (See Cameras, Television) Television Cameras, Measurement (See Cameras, Multispectral Measurement) Television Lenses (See Lenses, Television)
				Stirling Cycle Coolers (See Coolers, Stirling Cycle) Storage (See Gas Storage Equipment; Image Storage Systems, Computer-Based; Recorders, Data; Videodisc Recording Systems) Strain Measurement, Optical (See Gauges, Strain Measurement, Optical) Stray-Light Analysis Software (See Software)					Television Monitors Television Systems, Automatic Tracking (See Tracking Systems, Automatic TV) Television Systems, Closed-Circuit Temperature Controllers Temperature Sensors Terahertz (See Crystals, Terahertz; Detectors,
				Streak Cameras (See Cameras, Streak) Strip-Chart Recorders Stroboscopes (See Light Sources, Stroboscopic) Submillimeter Optics (See Micro-Optics; Nano-Optics; Optics)					Terahertz; Lasers, Terahertz; Optics, Terahertz; Scanners, Terahertz; Spectrometers, Terahertz) Temporal Dispersers (See Cameras, Streak) Termination Equipment (See Fiber Optic Termination Equipment)
				Substrates Superluminescent Diodes (See Light-Emitting Diodes, Superluminescent) Superresolution Imaging Systems (See Imaging Systems, Superresolution) Surface Analysis Laboratory Services Surface Analysis Software (See Software, Surface Analysis)					Test Equipment (See Adhesion Test; Coating Adhesion; Coating Testing and Monitoring; Color Test and Measurement; Detector Test; Display Test; Fiber Optic Test; FLIR Testing Systems; Holographic Nondestructive Testing; Infrared Test Equipment; Laser Systems, Nondestructive Testing; Lens Testing Equipment;
				Surface Analyzers (AES, XPS, SIMS) Surface Profilers Surface Quality Measuring Equipment Surveillance Systems (See Laser Systems, Security and Surveillance)					Mirror Testing Equipment; Nondestructive Testing Instruments, Eddy Current; Optical Testing Instruments; Used/Surplus Test and Analysis Equipment) Test Equipment, Hybrid Circuit Test Glasses — Configuration Testing
				Surveying Instruments, Optical Surveying Systems (See Laser Systems, Surveying) Sustainable Energy/Power (See Energy Systems, Renewable/Sustainable; Solar Photovoltaic Systems) SWIR Cameras (See Cameras, Short-Wave Infrared) Switches (See Fiber Optic Switches; Light-Emitting Diode Switches)					Test Glasses — Simple Lens Sets Testing and Device Certification Services Testing, Environmental Testing, Fiber Optic Standards (See Fiber Optic Standards Testing) Testing, Laser Damage Testing, Lasers Testing, Light-Emitting Diode
				Tables, Granite Tables, Honeycomb Tables, Index Tables, Metal Plate Tables, Optical/Laser Tables, Vibration-Isolated Tachometers, Optical Talk Sets, Optical (See Optical Talk Sets)					Testing, MIL-SPEC Testing, Optical Testing, Photometric Testing, Photonics Components Testing, Spectrometric Testing, System Performance, Including MTF Testing, Ultraviolet Inspection Test Patterns Theodolites and Transits Thermal Interface Materials Thermal-Infrared Cameras (See
				Tapers (See Fiber Optic Tapers) Target Collimators (See Collimators, Target) Target Designation Systems (See Laser Systems, Target Designation) Target Projectors					Cameras, Thermal-Infrared) Thermistors (See also Detectors, Infrared) Thermochromic Materials Thermocouples and Thermopiles (See Detectors, Infrared)
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Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Thermoelectric Coolers (See Cooling Systems, Thermoelectric) Thermographic Instruments Thermography Software (See Software, Infrared Thermography) Thermometers (See Infrared Thermometers) Thermopile Detectors (See Detectors, Thermopile)					U Ultrasonic Equipment and Materials for Cleaning or Optical Working Ultrasonic Light Modulators (See Modulators and Deflectors, Acousto-Optic) Ultraviolet Components (See separate listings under Coatings; Detectors; Filters; Lenses; etc.)
				Thin-Film Analysis (See Coating Testing and Monitoring Equipment; Film Thickness Gauges; Film Thickness Monitors; Optical Thin-Film Analysis Services) Thin-Film Deposition Equipment (See also Sputtering Equipment; Vacuum Equipment) Thin-Film Design Software (See Software, Optical Thin-Film) Tilts (See Mounts, Pan and Tilt) Time-Delay Generators (See Generators,					Ultraviolet Crystals (See Crystals, Ultraviolet) Ultraviolet Curing Equipment (See also Epoxy Curing Systems) Ultraviolet Instruments Ultraviolet Materials (See also Optical Materials) Ultraviolet Mirrors (See Mirrors, Ultraviolet) Ultraviolet Sources (See Light Sources, Ultraviolet; Radiation Sources, Ultraviolet) Used Lasers (See Lasers, Used/Surplus) Used/Surplus Manufacturing Equipment
				Digital Delay) Time-Domain Reflectometers (See Optical Time-Domain Reflectometers) Time-Interval Counters					Used/Surplus Test and Analysis Equipment V Vacuum Chambers
				Timelapse Cameras (See Cameras, Timelapse) Timers, Microsecond Timers, Millisecond Timers, Nanosecond Timers, Picosecond					Vacuum Equipment, Components and Accessories (See also Sputtering Equipment) Vacuum Equipment Repair Services
				Tool Design Services Tooling and Alignment Systems, Optical Tools and Machinery, Hand Tools Tools and Machinery, Optical Manufacturing (See also Diamond Tools and Machining Equipment)					Vacuum Evaporation Chemicals Vacuum Furnaces Vacuum Gauges Vacuum Getters (See Getters) Vacuum Leak Detectors (See Leak Detectors, Vacuum)
				Tracking Systems, Airborne Tracking Systems, Automatic TV Tracking Systems, Laser (See Laser Systems, Ranging, Navigation and Tracking)					Vacuum Photodiodes (See Detectors) Vacuum Pumps Valves (See also Vacuum Equipment, Components and Accessories)
				Tracking Systems, Solar Trade Show Organizers (See Conferences and Exhibitions) Training Services					Variable Filters (See Filters, Variable) VCSEL (See Lasers, Vertical-Cavity Surface-Emitting) Velocimetry Systems (See Laser Systems, Velocimetry)
				Transceivers (See also Fiber Optic Transceivers)					Venture Capital Consulting (See Consulting Services, Venture Capital)
				Transducers, Light Transducers, Piezoelectric (See Piezoelectric Transducers) Transfer Function Generator (See Modulation Transfer Function Analysis/Measurement)					Vibration Control Vibration Isolators (See also Benches; Mounts; Tables; Workstations) Vibration Measurement (See Laser Systems, Vibration Measurement) Vibration Sensing Equipment (See
				Transformers Transformers, Pulse (See Pulse Transformers) Transistors, Photo (See Detectors) Transits (See Theodolites and Transits) Translation Stages (See Positioning Stages, Linear) Transmission Systems (See Digital Transmission;					Position Sensing Equipment) Video Amplifiers (See Amplifiers, Video) Video Borescopes (See Borescopes) Video Cameras (See Cameras, Video) Video Displays (See Displays, Video) Video Frame Grabbers (See Frame Grabbers)
				Fiber Optic Video Transmission; Fiber Optic Voice Transmission; Video Transmission) Transmissometers Transmitters (See also Fiber Optic Transmitters) Tripods (See Mounts, Tripod) Tubes (See Klystron Tubes; Laser Tubes and Bores;					Video Frame Storage Systems Video Generators Video Inspection Systems (See Inspection Systems, Video) Video Printers Video Processing Equipment Video Scan Converters (See Scan Converters)
4	0	0	4	Photomultiplier Tubes) Tubing (See Glass Tubing; Plastic Tubing) Tuning Forks (See Choppers) Tweezers (See Optical Tweezers)			3		Videotape Recorders (See Recorders, Videotape) Video Transmission Systems (See also Fiber Optic Video Transmission Systems)
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Subcategory		ry		S	ubca	tegoi	ry		
Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design		Mfr. Stock Items	Mfr. Custom Items	Supply/Distribute	Design	Note: Each box checked counts as <u>one</u> category.
1	2	3	4	Category Heading	1	2	3	4	Category Heading
				Videodisc Recording Systems and Equipment Vidicons Viewers, Infrared (See Infrared Viewers) Vision-Based Sensors Vision Systems, 3D Vision Systems, Alignment Vision Systems, Embedded Vision Systems, Intelligent Vision Systems, Machine Vision Systems, Robotic Voice Transmission Systems (See Fiber					Windows, Instrument Windows, Laser, High-Power Windows, Radiation Shielding Windows, Sapphire Windows, Ultraviolet Windows, Underwater Windows, X-Ray Wire Bonding Equipment Wireless Communications (See Fiber Optic Communications Systems; Laser Systems, Communications, Wireless)
				Optic Voice Transmission Systems)					Witness Samples Workstations, Antivibration
				Wafer Prisms (See Prisms, Wafer) Wafers, Glass Wafers, Other					(See also Tables, Vibration-Isolated) Workstations, Imaging Workstations, Laser
				Wafers, Quartz Wafers, Silicon Washers Water Cooling Systems (See Cooling					X Xenon Lamps (See Light Sources, Xenon) Xenon Lasers (See Lasers, Xenon) X-Ray (See Cameras, X-Ray; Coatings, X-Ray;
				Systems, Water) Water Pollution Measurement and Detection Systems, Optical					Crystals, X-Ray; Diffractometers, X-Ray; Filters, X-Ray; Image Sensors, X-Ray; Inspection Equipment, X-Ray; Inspection
				Wave Plates Waveform Analyzers					Systems, X-Ray; Mirrors, X-Ray; Optics, X-Ray; Power Supplies, X-Ray and Ion-Beam;
				(See also Fiber Optic Waveform Analyzers) Waveform Digitizers Wavefront Analyzers Wavefront Sensors Wavelength Division Multiplexers/Demultiplexers (See Fiber Optic Dense Wavelength Division Demultiplexers; Fiber Optic Dense Wavelength Division Multiplexers; Fiber Optic Wavelength Division Demultiplexers; Fiber Optic Wavelength					Radiation Sources, X-Ray; Spectrometers, X-Ray Spectrum Measuring Instruments, X-Ray; Windows, X-Ray) X-Y Tables (See Positioning Stages, Linear) Y YAG (See Crystals, Laser; Crystals, YAG) YLF (See Crystals, Laser; Crystals, YLF)
				Division Multiplexers) Wavelength Meters Wedges, Optical Windows, Brewster Angle Windows, Diamond Windows, Infrared					Z Zone Plates Zoom Lenses (See Lenses, Zoom, Variable Focal Length)
1	2	3	4		1	2	3	4	