VIAVI Solutions

Brochure

VIAVI
Optical Solutions for Laser Aesthetics Applications

VIAVI technologies are ideal for demanding applications that require high contrast performance, wavelength agility, and 24/7 reliability. Our patented low angle shift (LAS) bandpass filters enable instrument miniaturization and improve signal collection. VIAVI Engineered Diffusers® generate best in class uniform illumination beams with efficient light management. Our durable wafer level patterned coatings are enabling novel biosensors and continuous healthcare monitoring devices.

VIAVI products are relied upon in a wide variety of medical diagnostic, life science instrumentation, and health care applications.

We uniquely combine quality, performance and low-cost solutions in our offerings, while de-risking supply chain with our facilities and teams based in US and Asia.

Light Shaping Optics

VIAVI Engineered Diffusers® enable uniform illumination beams with sharp contrast and no zero-order hotspot to enhance customer feel and experience and ensure desired treatment outcomes. Our proprietary materials enable wide field of view (FOV) diffusers for faster body contouring and fat removal treatments. In addition to improved outcomes for treatments, the VIAVI refractive design approach to manufacture Light Shaping Optics reduces instrument complexity and cost by providing wavelength agnostic performance over a wide spectral range.

The VIAVI Diffractive Optical Elements (DOE) Arrays and Microlens Arrays create precise dot patterns for laser aesthetic treatments. Our highly robust Reactive Ion Etched (RIE) products provide enhanced efficiency of light management in high power illumination instruments. Polymer-on-glass products offer low-cost solutions at high volumes. Our wafer level manufacturing process ensures consistent product performance at reduced cost.

Thin Film Optical Coatings

VIAVI hard-coated optical filters provide spectral purity and consistency of illumination beams ensuring desired outcomes in skin rejuvenation treatments. Tattoo removal and similar skin treatment applications benefit from Dichroic Beamsplitters and Mirrors that minimize wavefront aberrations and reduce laser pulse broadening, thereby enabling deep tissue penetration and effective medical procedures. Eye safety in clinical applications is enabled by Notch Filters that provide deep blocking at illumination wavelengths. We uniquely combine quality, performance and low-cost solutions in our offerings, while de-risking supply chain with our facilities and teams based in US and Asia.

Treatments/Applications

- Face and Body Contouring and Tightening
- Skin Rejuvenation and Resurfacing
- Hair Removal
- Tattoo Removal
- Ophthalmology
- Dental Procedures

VIAVI Product Offerings

- Engineered Diffusers
- Dot Projection Optics
- Microlens Arrays
- Bandpass/Edge Filters
- Dichroic Beamsplitter
- Notch Filters
- Mirrors

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