

Planar waveguide companies



AI Overview

Several companies specialize in planar waveguides, offering solutions for optical, photonic, and AR/VR applications. Key Planar Waveguide Manufacturers

- Avantier** – A vertically integrated company providing high-precision custom optics, including planar waveguide devices, from prototyping to full-scale production.
- Myrias Optics** – Produces all-inorganic printed meta-optics and AR/VR waveguides that are lightweight, compact, and tunable, using scalable additive manufacturing processes.
- Pixel Photonics** – Specializes in waveguide-integrated superconducting nanowire single-photon detectors (WI-SNSPDs), offering high detection efficiency and scalable photonic solutions.
- Flann Microwave** – Designs and manufactures precision microwave and millimeter-wave passive waveguide components and sub-assemblies, including calibration kits and test instruments.
- SWISSto12** – Focuses on components and systems for terahertz (THz) signal transmission, leveraging planar waveguide technologies for high-frequency applications.
- WaveOptics** – Known for AR/VR waveguides and optical components, providing solutions for consumer electronics and display systems.
- FiberPlex Technologies** – Manufactures fiber optic converters, extenders, and isolators, integrating planar waveguide technology for optical communication systems.

Additional Notes Planar waveguides, also called slab waveguides, guide light in one dimension and are often fabricated as thin films with a higher refractive index on a substrate. They are used in optical amplifiers, lasers, and integrated photonic devices. Companies in this sector may also provide custom design, prototyping, and full-scale production services for specialized applications in telecommunications, AR/VR, and high-frequency electronics. These companies represent a mix of optical, photonic, and microwave waveguide specialists, catering to both research and commercial applications.

Article Content

Waveguides assembled for transverse-transfer of optical power

The first and second planar waveguides are assembled together with at least portions of their corresponding substantially flat waveguide upper cladding surfaces facing one another, thereby

Optical Waveguide Market Report 2026

Global Optical Waveguide market size is expected to reach \$12.16 billion by 2030 at 9.3%, growing data center business drives growth in the optical waveguide market

What is Planar Waveguide Circuit Splitter? Uses, How It ...

Delve into detailed insights on the Planar Waveguide Circuit Splitter Market, forecasted to expand from USD 300 million in 2024 to USD 600 million by 2033 at a CAGR of 8.5%.

Top 10 Optical Module Brand & Manufacturers

Through continuous technological accumulation, the company has a number of independently developed core technologies and has established four major technology platforms: planar light

Waveguide optics: Going beyond classical fiber optics

Waveguide optics are much more than the classical solid-glass optical fiber drawn into a circular cross-section by the surface tension of molten glass. Waveguide

Optical Waveguides: A Detailed Look at Their Design

Explore the fundamentals of optical waveguides and their pivotal role in modern photonics. Learn about different types of waveguides, such as planar, fiber optic,

Top Waveguide Providers | Compare 135 Companies

Compare Waveguide providers listed in the Wireless and RF Online Directory. Browse the latest products and services for your business, read company reviews, download white papers, and

Top Waveguide Devices Companies & How to Compare Them (2025)

The Waveguide Devices Market is expected to witness robust growth from USD 1.5 billion in 2024 to USD 3.

Top Companies in AR Waveguides (Jan, 2026)

There are 21 AR Waveguides startups which include DigiLens, Dispelix, Lumus, Lingxi AR, Cellid. Out of these, 16 startup s are funded, with 15

Optical Waveguide Market Size, Share, Statistics,

Optical Waveguide Market Size & Highlights This research report categorizes the optical waveguide market based on type, trends, material,

Waveguides – optical fiber, fabrication, modes, nano

Waveguides are spatially inhomogeneous transparent structures for guiding light, often used for obtaining strong light concentration over substantial distances.

Additive 3D printed optical waveguide for augmented

Companies such as Microsoft, Vuzix, Magic Leap, and Waveoptics have commercialized devices using this technique. 5 Another diffractive

Discover Top 40 Companies in Optical Waveguide

The report provides an in-depth analysis of the leading companies operating in the global optical waveguide market. It includes a comparative assessment based on

13 Waveguide Manufacturers in 2026

13 Waveguide Manufacturers in 2026 This section provides an overview for waveguides as well as their applications and principles. Also, please take a look at the list of 13 waveguide manufacturers and

Optical Waveguide Display Market Size, Share & Forecast

Optical Waveguide Display Market Overview The optical waveguide display market represents a sophisticated intersection of photonics, display

Waveguide-fed planar antenna array

Abstract: A novel planar antenna array fed by an integrated waveguide and a method for producing same is presented. The antenna array is an aperture coupled array fed by an embedded microstrip

Planar Waveguides – Buyer's Guide & Supplier List | RP Photonics

This buyer's guide for planar waveguides provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

Optical meta-waveguides for integrated photonics and beyond

Recent years have witnessed substantial potential in allying meta-optics with diverse waveguide platforms to enable exotic manipulation of guided light signals. This review cataloged

Planar Waveguides | Photon Design

Waveguide-based planar gratings FIMMPROP offers two complementary approaches (RCMT and EME) for modelling optical gratings and periodic

Planar Waveguides – slab waveguides

Planar Waveguides Author: the photonics expert Dr. Rüdiger Paschotta (RP) Expert Buyer's Guide for Planar Waveguides Selection criteria, tradeoffs, and 1 supplier. You are a not yet listed supplier?

Global Planar Polymer Optical Waveguides Market 2025 by

This report profiles key players in the global Planar Polymer Optical Waveguides market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product

Waveguide-based augmented reality displays: perspectives and

Augmented reality (AR) displays, as the next generation platform for spatial computing and digital twins, enable users to view digital images superimposed on real-world environment,

Development of planar diffractive waveguides in optical see-through ...

The planar diffractive waveguide is widely adopted in optical see-through head-mounted displays in the field of augmented reality due to its distinguished trade-off among the form factor,

Mixed Reality at CES & AR/VR/MR 2024 (Part 2 Mostly Optics)

The company emphasizes the integration of prescription optics and the small and lightweight design, which is optically much more efficient than other waveguides. Tooz jointly

Advanced Waveguide Technologies: Space Qualified

Founded in 2017, Advanced Waveguide Technologies set out to be the most trusted and reliable name in waveguides. We are an experienced team that is focused

What is Planar Waveguide Circuit Splitter? Uses, How It ...

The report identifies key growth drivers, market size, and essential industry trends. Planar Waveguide Circuit Splitters are essential components in optical communication systems.

Planar waveguide devices | Laser Focus World

Articles, news, products, blogs and videos covering the Buyer's Guide > Fiber-optic & Optoelectronic Components, Equipment, & Systems > Planar waveguide devices market.

Planar Waveguide Circuit Splitter Market 2025

The global planar waveguide circuit splitter market features a dynamic competitive landscape, characterized by the presence of established players and emerging regional manufacturers.

Top 100 Waveguide Manufacturers in 2026 | ensun

Key takeaway Waveguide has been a pioneer in communication technology and acoustics since its founding in 1996, focusing on creating advanced communication environments that enhance

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