

VPIphotonics Releases Design Suite Version 11.7 with Expanded Capabilities for Datacom, Laser Satcom, Fiber Sensing, and Integrated Photonics

Los Angeles, USA – VPIphotonics Design Suite Version 11.7 is now available, delivering new modeling capabilities that address the evolving demands of datacom, laser satcom, high-capacity networks, fiber sensing, and integrated photonics.

Version 11.7 addresses key industry needs by delivering significant improvements in modeling accuracy, flexibility, and simulation speed, underscoring our commitment to delivering practical, industry-focused tools that accelerate photonic innovation. Some of the highlights:

- Reference design according to the 100G-DR-LPO MSA, including FFE/DFE/CTLE
- PAM-3/4/6/8 system alternatives for 200 Gb/s O-band transmission
- Equalization enhanced phase noise (EENP) and its impact in a DP-16QAM 124GBd system
- Enhanced Gaussian noise (EGN) model that accounts for ISRS, dispersion slope and span coherence
- Efficient channel-by-channel performance assessment of N x 120 GBd DP-16QAM WDM system
- Fiber Rayleigh backscattering module for Distributed Fiber Optic Sensing (DFOS) systems
- Phase-sensitive OTDR system for distributed acoustic sensing (DAS)
- FSO phase screen generator with improved model of large-scale eddies below the FFT cut-off frequency
- Gaussian beam coupling into a single-mode fiber for a satellite downlink with atmospheric turbulences
- Thermal effects simulation and automated detuning compensation for a thermally stabilized MRM
- Automated conversion of PIC simulation schematics to/from netlists with components and connections
- Optimized IIR filter design algorithm, speeding up execution of integrated photonic components
- Efficient PIC design linking photonic component-level simulation and circuit-level performance assessment
- S-matrix support with custom parameter dependencies for electrical properties of optoelectronic devices

André Richter, General Manager of VPIphotonics, stated, "Version 11.7 elevates the flexible modeling capabilities in VPIphotonics Design Suite to support our users in cutting edge research and day-to-day design tasks across their various applications."

Version 11.7 provides access to more than 1,000 ready-to-run simulation setups. New and improved demo examples illustrate the application of the new features and modules. More details about what is included in the latest release can be found at <https://VPIphotonics.com/DSv117>.

VPIphotonics is showcasing Version 11.7 this week at OFC 2026 in Los Angeles. See the new capabilities in action in the South Hall at Booth #431, or request an evaluation at <https://www.vpiphotonics.com/Services/Evaluation>.

Chris Maloney | Director of Business Development | chris.maloney@vpiphotonics.com | +1 (585) 683-8117

About VPIphotonics

VPIphotonics sets the industry standard for end-to-end photonic design automation encompassing the design, analysis and optimization of devices, components, systems and networks. We provide professional simulation software supporting applications in optoelectronics, integrated photonics, fiber optics, optical transmission systems and networks. Our experts offer professional consulting services and training courses on modeling techniques and software capabilities. For more than 25 years, VPIphotonics' award-winning solutions have been used extensively in research and development and by product design and marketing teams at hundreds of corporations worldwide. Over 160 academic institutions joined our University Program, enabling students, educators, and researchers easy access to VPIphotonics' latest modeling and design innovations. **More information is available at www.VPIphotonics.com.**