

# 2D Mode Solver Software



*Know your modes!!!*

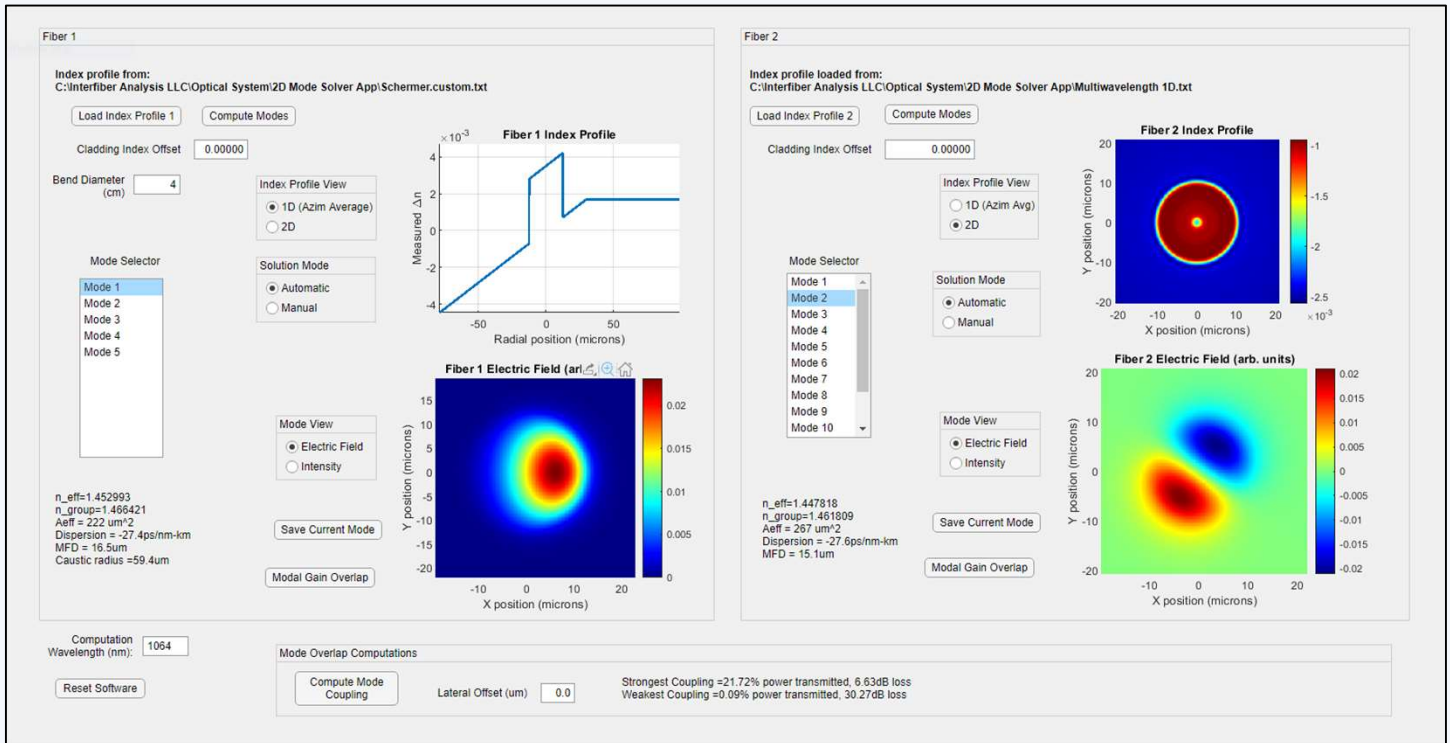
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- **Compute two-dimensional fiber modefields and mode properties**
  - **Predict mode coupling at fiber splices**
  - **Model fiber bending effects**
  - **Quantify impact of index profile asymmetries**
  - **Determine overlap between modes and cores**
  - **Analyze fiber, preform, or synthetic index profiles**



 **INTERFIBER ANALYSIS**

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# Sample computation:



## 2D Mode Solver Specifications:

System requirements	Windows 64-bit computer
Numerical engine	Scalar finite element method (FEM)
Wavelength band	UV to SWIR (400 nm to 2150 nm)
Solution domain	140 micron diameter disk
Solution time	Seconds
Fiber profile input	ascii text files (1- and 2-dimensional)
Data output	ascii text, png or pdf images
Computed mode properties	Electric field, optical intensity, effective index, group index, dispersion, mode field diameter, effective area



# INTERFIBER ANALYSIS

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info@amstechnologies.com  
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