

Feature Comparison

FOR SUBSCRIPTION LICENSES

OpticStudio®

Imaging & afocal design	Standard	Professional	Premium
Sequential ray tracing	✓	✓	✓
12 field points	✓	✓	✓
50 field points (best for aspheric design)		✓	✓
Over 200 field points (best for freeform design)			✓
Optimization	✓	✓	✓
Contrast Optimization		✓	✓
High-Yield Optimization		✓	✓
Tolerancing	✓	✓	✓
Thermal analysis	✓	✓	✓
Black Box encryption	✓	✓	✓
Image quality analysis	✓	✓	✓
Image Simulation analysis	✓	✓	✓
Full-Field Aberration analysis		✓	✓
Aspheric design	✓	✓	✓
Freeform optics	✓	✓	✓
Diffraction optics	✓	✓	✓
Ghost Focus Generator	✓	✓	✓
Multiple configurations	✓	✓	✓
Birefringence		✓	✓
Stock Lens Matching Tool		✓	✓
TrueFreeForm™			✓

Standard
 Professional
 Premium

Support is available to all pricing tiers at MyZemax.com where users have access to Knowledgebase articles, community forums, and unlimited support cases.

Lighting & illumination design	Standard	Professional	Premium
Non-sequential ray tracing		✓	✓
Geometric light sources		✓	✓
Measured light sources		✓	✓
Objects		✓	✓
Detectors		✓	✓
Optimization		✓	✓
Freeform optics		✓	✓
Tolerancing		✓	✓
Colorimetry		✓	✓
Ray splitting		✓	✓
Ray scattering		✓	✓
Measured source models			✓
Measured surface scattering models			✓
Roadway Lighting			✓
LightningTrace™			✓
Source Illumination Map			✓
Phosphor & fluorescence modeling			✓
Path analysis			✓
Programming interface	Standard	Professional	Premium
Zemax Programming Language	✓	✓	✓
User-configurable shortcut keys	✓	✓	✓
MATLAB interoperability		✓	✓
User-defined surfaces and objects		✓	✓
User-defined scatter profiles & sources		✓	✓
Programmable interface (ZOS-API) *		✓	✓
* only Python available for OpticStudio Online			

Lasers & fibers	Standard	Professional	Premium
Gaussian beams	✓	✓	✓
Scanning systems	✓	✓	✓
Single mode fiber coupling	✓	✓	✓
Multi-mode fiber coupling	✓	✓	✓
Optimization	✓	✓	✓
Tolerancing	✓	✓	✓
Physical Optics Propagation		✓	✓
M2 & beam quality		✓	✓
CAD integration	Standard	Professional	Premium
Export to STEP, IGES, SAT, STL	✓	✓	✓
Import of STEP, IGES, SAT, STL		✓	✓
Dynamic link to SOLIDWORKS *			✓
Dynamic link to Autodesk Inventor *			✓
Dynamic link to CREO Parametric *			✓
Part designer – static parts		✓	✓
Part designer – dynamic parts			✓
* not available for OpticStudio Online			
Data libraries	Standard	Professional	Premium
Lens Catalog	✓	✓	✓
Materials Catalog	✓	✓	✓
Coatings Catalog	✓	✓	✓
Test Plate Lists	✓	✓	✓
Spectrum data files		✓	✓
IS Scatter Catalog			✓
Radiant Source Models			✓
IES Source Models			✓