

Stray Light Analyzer in TracePro

Analyzing stray or unwanted light in optical systems can be a difficult and tedious process requiring tracing multiple sources from multiple angles and locations.

The Stray Light Analyzer automates many of the tasks involved in stray light analysis.

This feature is available in the Standard and Expert editions of TracePro. The Stray Light Analyzer makes the stray light analysis process more intuitive and user friendly.

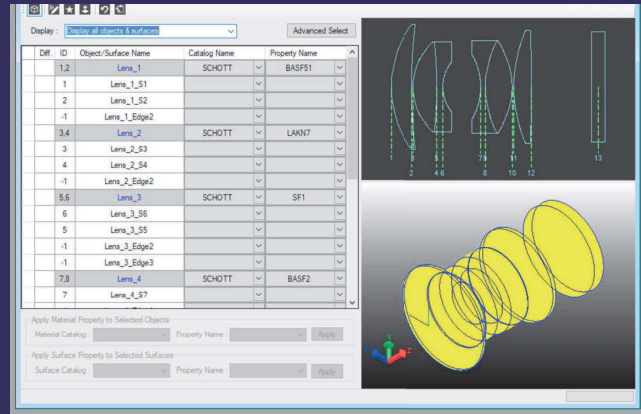


Figure 1: Lens System View Window

The Lens System View and Control Panel windows allow users to load a lens model directly from TracePro and define the light sources to be used in the stray light analysis. The Stray Light Analyzer will then automatically create the sources, trace the rays, and populate the analysis table. At that point the individual paths can be sorted and analyzed.

 **Many of our users have requested this capability. We listened, and it is available now in TracePro.**

List: Light Paths Exclude Image Path

Filter 1: All Paths

Filter 2: All Paths

Path	Max Irr.	Total Flux	No. Rays	No. Paths	No. Intercepts
T0	225644	0.429163	156	3	2
T2	591975	5.14753	2200	4	4
T4R2TIR4K8	1612.51	0.037077	2401	1	12
T8O2	9758.23	0.053765	115	2	10
T10O2	23587.6	0.27725	433	2	12
T8R2O3	695.973	0.019592	2745	1	12
T8R2O1	729.323	0.050253	6248	3	12
T8R2O2	4005.566	0.117173	15439	4	12
T10R1O2	4807.96	0.037818	233	1	13
T10R1O1	5433.48	0.107365	734	2	13
T12O1	502753.5	88.0516	60158	6	14
T12	532313000	425.3811	281649	6	14
T12TIR1O2	93454.49	0.60938	489	5	15
T14TIR2O4	131252	0.667153	493	5	18
T12R2O1	684.837	0.0722	8636	3	16
T12R2O1	1209.817	0.064711	8854	3	16
T12R2O2	3069.719	0.12651	15498	3	16
T12R2O3	4322.16	0.022697	3632	2	16
T12R2O2	1148.132	0.097392	16334	6	16
T12R2	634.2887	0.19771	30513	6	16
T12R2	790.8454	0.236694	31354	6	16
T12R2O1	4901.207	0.243689	37741	6	16
T12R2O1	58124.81	0.965838	121853	6	16

Legend: - Seq. T. - Trans. - Seq. R. - Refl. - TIR - Exit Seq. - Return Seq.

	Lens_1-Lens_1_S1	Lens_1-Lens_1_S2	Lens_2-Lens_2_S3	Lens_2-Lens_2_S4	Lens_3-Lens_3_S5	Lens_3-Lens_3_S6
1						

	1	2	3	4
Object Name		Lens_6	Lens_6	Lens_7
Surface Name		Lens_6_S11	Lens_6_S12	Detector
Sequence/Group ID		11	12	13
Intercept	Emitted	SpecTran	SpecTran	All Surface

Figure 2: Analysis List



Lambda Research Corporation, established in 1992, is a leader in software for the design, analysis, and simulation of optical and illumination systems. Its flagship product, TracePro, is an award-winning opto-mechanical design software widely used for designing and analyzing illumination and optical systems.

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