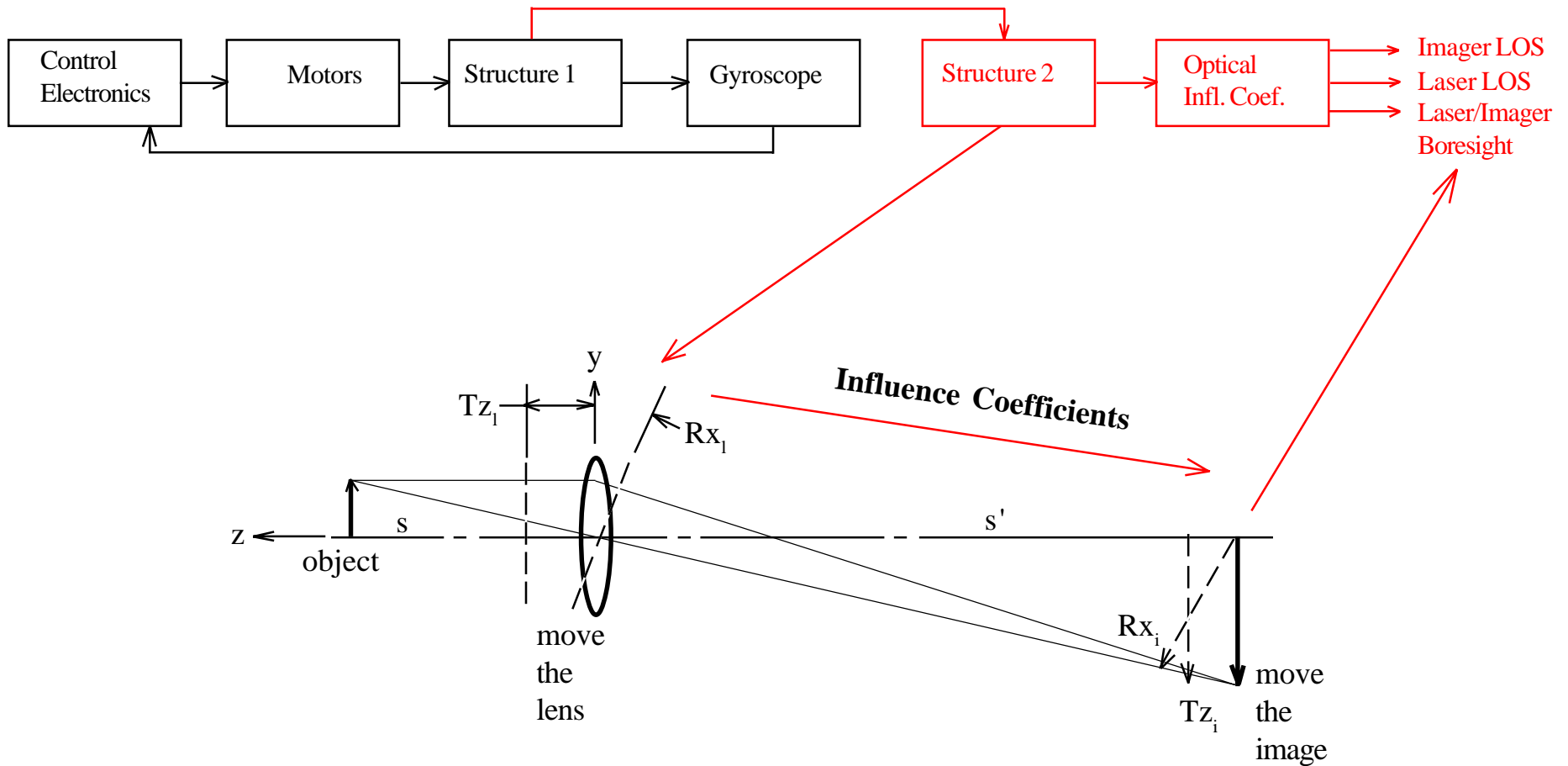


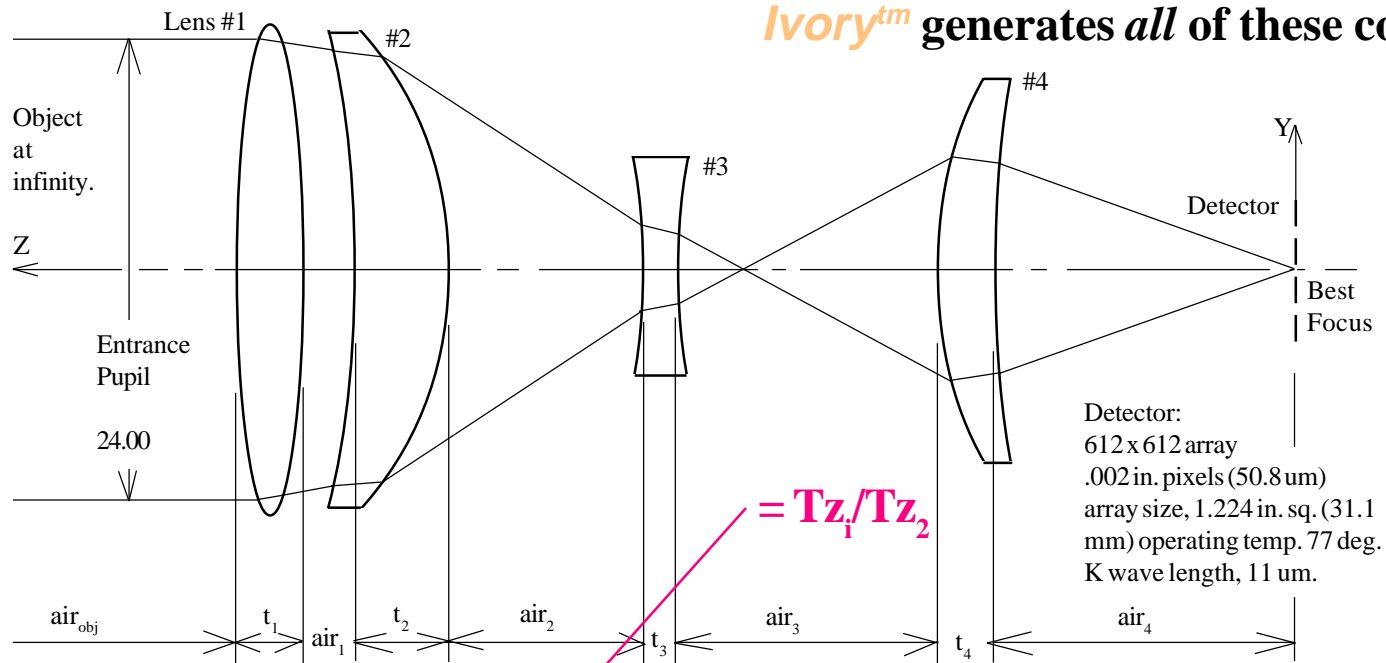
# The Engineering Challenge



**Definition:** *Influence Coefficient* = Image Motion/Lens Motion

# Optomechanical Constraint Equations (2)

Ivory<sup>tm</sup> generates *all* of these coefficients.



Object	Lens #1		Lens #2		Lens #3		Lens #4		Detector		Image Registration Errors
0.0	-1.029	1.543	-1.260	6.016	.1093	3.275	3.181	-1.166	-1.0		Tx
0.0	-1.029	-1.543	-1.26	-6.016	.1093	-3.275	3.181	1.166	-1.0		Ty
0.0	1.060	-1.060	4.185	-1.589	.488	-.0119	3.757	10.12	1.0		Tz
0.0	-1.029		1.260		.1093		3.1812		-1.0		Rx
0.0	-1.029		-1.260		.1093		3.1812		-1.0		Ry
1.0	0.0		0.0		0.0		0.0		-1.0		Rz
0.0	-.0653	.08527	-.3214	.1328	.0586	.00201	.3281	.4786			$\Delta M/M$
Tx Ty Tz Rx Ry Rz Object Displacements	Tx Ty Tz Rx Ry Rz $\Delta f$ Lens Displacements	Tx Ty Tz Rx Ry Rz $\Delta f$ Lens Displacements	Tx Ty Tz Rx Ry Rz $\Delta f$ Lens Displacements	Tx Ty Tz Rx Ry Rz $\Delta f$ Lens Displacements	Tx Ty Tz Rx Ry Rz $\Delta f$ Lens Displacements	Tx Ty Tz Rx Ry Rz $\Delta f$ Lens Displacements	Tx Ty Tz Rx Ry Rz $\Delta f$ Detector Displacements				

Ivory is a trademark of Alson E. Hatheway Inc.

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**A.E.H.**

Optomechanical Solutions