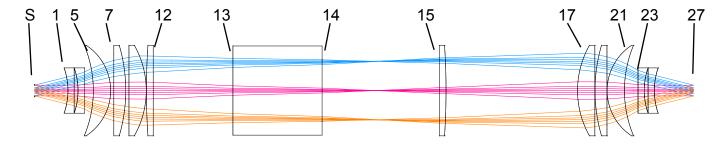
Relay 1 - Beam recomination relay; SM-1/2 to SM-X relay

Surface #



Surface #	Description	Radius (mm)	Thickness (mm)	Material	Semi-Diameter
Stop	SM-1/2		18.769		3.0
1	LC1582	-38.6	3.5	N-BK7	12.7
2		Inf	2.15		12.7
3	LC1582	-38.6	3.5	N-BK7	12.7
4		Inf	5.1		12.7
5	LE1076	-65.8	9.7	N-BK7	25.4
6		-30.3	1.77		25.4
7	LA1399	Inf	6.7	N-BK7	25.4
8		-90.1	1.8		25.4
9	LA1050	Inf	9.7	N-BK7	25.4
10		-51.5	0.1		25.4
11	LA1727	386.3	3.8	N-BK7	25.4
12		Inf	44.7		25.4
13	65-606	Inf	50	N-SF11	25.0
14		Inf	65.707		25.0
15	LA1727	Inf	3.8	N-BK7	25.4
16		-386.3	73.746		25.4
17	LA1050	51.5	9.7	N-BK7	25.4
18		Inf	0.1		25.4
19	LA1399	90.1	6.7	N-BK7	25.4
20		Inf	0.1		25.4
21	LE1076	30.3	9.7	N-BK7	25.4
22		65.8	7.61		25.4
23	LC1582	Inf	3.5	N-BK7	12.7
24		38.6	2.15		12.7
25	LC1582	Inf	3.5	N-BK7	12.7
26		38.6	22.089		12.7
27	SM-X	Inf	next page		

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Supplementary Figure 1. Full prescription data for the steering mirror (SM) to X scanning mirror (SM-X) relay.

The optical relay was constructed from commercial off-the-shelf (COTS) components and was designed to minimize aberrations at high scan angles. The polarizing beam splitter (PBS) was offset from the focal point of the relay to minimize photo-damage to the optical cement.