

# Appendix B: Camera Calibration Data

			Camera 1		Camera 2	
	World Coordinates		Image Coordinates		Image Coordinates	
Giallo 1	77.261978	9.3193226	240	840	1405	165
Giallo 2	77.568573	34.337677	425	395	1495	400
Giallo 3	77.648048	57.3634	525	180	1650	775
Giallo 4	97.427101	56.906445	1375	180	290	765
Giallo 5	96.904655	9.5490179	1605	795	580	170
Fisso 6	104.86995	0.1017158	-	-	295	105
Fisso 7	104.90186	13.779555	-	-	210	205
Fisso 8	88.314507	15.439806	1025	705	930	205
Fisso 9	88.519508	54.162239	995	205	905	705
Fisso 10	104.91088	54.122761	1725	200	-	-
Fisso 11	104.91105	67.927704	1645	100	-	-
Fisso 12	104.88148	43.205231	1800	300	-	-
Fisso 13	99.531624	43.12846	1535	300	275	525
Fisso 14	99.547058	24.85062	1650	520	400	300
Fisso 15	104.88358	24.879362	-	-	130	300
Bianco 16	85.133896	3.8741865	780	925	1070	130
Bianco 17	72.73455	3.8047862	-	-	1570	130
Bianco 18	72.379257	62.353729	320	140	-	-
Bianco 19	85.527481	62.000118	865	145	1110	870
Fisso 20	93.989212	34.106133	1290	400	635	400

# Camera Calibration Data, Cont'd

			Camera 3		Camera 4	
	World Coordinates		Image Coordinates		Image Coordinates	
Fisso 1	52.397995	0.0152318	945	1025	960	105
Fisso 2	52.370514	24.917166	945	520	955	300
Fisso 3	54.017929	35.079655	945	400	955	400
Fisso 4	52.352539	42.985855	945	300	950	525
Fisso 5	52.342651	67.981934	945	100	935	1035
Punto 6	61.143108	6.5223298	1590	855	585	145
Punto 7	69.373505	12.066032	-	-	195	185
Punto 8	66.242065	33.832989	1710	400	200	395
Punto 9	69.16835	56.078075	1715	180	-	-
Punto 10	61.844486	60.90424	1360	150	240	855
Punto 11	43.337059	60.931126	550	150	1605	860
Punto 12	34.635906	56.214333	135	185	-	-
Punto 13	38.320267	33.869808	170	400	1720	400
Punto 14	34.079475	11.767772	-	-	1785	180
Punto 15	43.386677	6.6477127	275	855	1350	150

# Camera Calibration Data,

## Cont'd

			Camera 5		Camera 6	
	World Coordinates		Image Coordinates		Image Coordinates	
Giallo 1 <del>27 71</del>	27.710178	24.034	1690	800	525	170
Giallo 2	27.8374	34.5678	1525	390	405	405
Giallo 3	28.2874	58.0262	1450	170	195	790
Giallo 4	7.73866	57.9556	565	175	1620	785
Giallo 5	7.58353	9.54519	280	795	1370	175
Fisso 7	-0.01735	13.77	-	-	1720	205
Fisso 8	16.3643	13.7746	895	705	1000	205
Fisso 9	16.3566	54.0618	935	200	1025	705
Fisso 10	0.0786684	54.0799	205	200	-	-
Fisso 11	0.105432	67.9509	290	100	-	-
Fisso 12	0.0919561	43.1069	125	305	-	-
Fisso 13	5.35106	43.0971	395	300	1650	520
Fisso 14	5.35488	24.779	270	525	1535	300
Fisso 15	0.007198	24.751	-	-	1795	305
Bianco 16	19.4079	4.83892	1105	895	875	140
Bianco 17	32.8564	4.60142	-	-	335	135
Bianco 18	32.9241	63.4719	1625	125	-	-
Bianco 19	19.5252	63.5554	1070	130	800	910
Fisso 20	10.837	33.9567	625	400	1300	400

extension from Fisso 9 i 16.356 67.96 943 97  
extension from Fisso 9 ii 16.356 0 877 1030

Bianco 16 extension I 19.4079 0 1104, 1033  
Giallo 1 ext I 27.0178 0 1780, 1035  
Giallo 3 extension 28.2874 0 1430, 95

# Camera Calibration Data, Cont'd

Focal Length in x = 953.58

Focal Length in y = 953.58

Principal Point = (959.5, 539.5)

	Rotation Matrix	Position (metres) $[x \ y \ z]^T$
Camera 1	0.99997   -0.00769   0.00016	87.56
	-0.00500   -0.66628   -0.74569	-34.52
	0.00585   0.74567   -0.66630	60.69
Camera 2	-0.99998 $7.600e-5$ 0.00628	87.69
	-0.00475   0.66371   -0.74797	103.14
	-0.00411   -0.74799   -0.66370	60.62
Camera 3	0.99997   -0.00564   -0.00567	53.15
	-0.00797   -0.64563   -0.76361	-34.13
	0.00065   0.76363   -0.64565	56.51
Camera 4	-0.99990   -0.00507   0.01340	52.37
	-0.01345   0.65367   -0.75666	101.78
	-0.00493   -0.75676   -0.65367	57.93
Camera 5	0.98952   0.00664   0.14427	9.31
	0.11249   -0.66193   -0.74109	-33.97
	0.09058   0.74954   -0.65574	59.50
Camera 6	-0.98373   0.00169   0.17965	27.84
	-0.13250   0.66846   -0.73185	102.09
	-0.12133   -0.74374   -0.65736	58.83