

Optical Lever Coordinates, H1
12/14/2010

E1000601-v2 aLIGO Optical Lever Coordinates, H1

GROUND
HEIGHT
GLOBAL -1854.2

IFO	Mirror	CHAMBER	BEAM POSITION, mm									Comment	PATH LENGTH	TRANSMIT HEIGHT	RECEIVE HEIGHT			
			ZEMAX			GLOBAL			LOCAL									
			X	Y	Z	X	Y	Z	X	Y	Z							
H1	OPTLEV BS	BSC2	0.0	-1253.0	1230.0	1230.0	-1253.0	0.0	1230.0	-1253.0	0.0	Source	501:00:00	BS	OPTLEV	Tx		1854.2
			0.0	-1044.4	1025.7	1025.7	-1044.4	0.0	1025.7	-1044.4	0.0	BS	OPTLEV	IN/OUT	BSC2	VP8	292.0	
			0.0	-850.0	835.3	835.3	-850.0	0.0	835.3	-850.0	0.0	BS	optlev	periscope	M1		272.1	
			0.0	-1062.1	627.6	627.6	-1062.1	0.0	627.6	-1062.1	0.0	BS	optlev	periscope	M2		296.9	
			0.0	-241.9	-175.7	-175.7	-241.9	0.0	-175.7	-241.9	0.0	BS					1148.1	
			0.0	-1062.1	664.5	664.5	-1062.1	0.0	664.5	-1062.1	0.0	BS	optlev	periscope	M2		1174.2	
			0.0	-850.0	881.4	881.4	-850.0	0.0	881.4	-850.0	0.0	BS	optlev	periscope	M1		303.4	
			0.0	-1017.4	1052.7	1052.7	-1017.4	0.0	1052.7	-1017.4	0.0	BS	OPTLEV	IN/OUT	BSC2	VP8	239.5	
			0.0	-1224.0	1264.0	1264.0	-1224.0	0.0	1264.0	-1224.0	0.0	BS	OPTLEV	Rc			295.5	1854.2
																	4021.7	
	OPTLEV PR3	WAMC1	977.4	-336.8	-5893.5	-5893.5	-336.8	-977.4	-5893.5	-336.8	-977.4	Source	344:00:00	OPTLEV	PR3	Tx		876.8
			962.1	-334.1	-6138.2	-6138.2	-334.1	-962.1	-6138.2	-334.1	-962.1	OPTLEV	PR3	IN	WAMCB1	VP7	245.2	
			111.2	-183.4	-19740.0	-19740.0	-183.4	-111.2	-19740.0	-183.4	-111.2	PR3_RADIUS					13629.2	
			-768.7	-333.9	-6138.2	-6138.2	-333.9	768.7	-6138.2	-333.9	768.7	OPTLEV	PR3	OUT	WAMCB1	VP11	13631.1	
			-783.0	-336.3	-5918.0	-5918.0	-336.3	783.0	-5918.0	-336.3	783.0	OPTLEV	PR3	Rc			220.7	2637.2
																	27726.2	
	OPTLEV HAM2	WAMC1	913.9	514.9	-5893.5	-5893.5	514.9	-913.9	-5893.5	514.9	-913.9	Source	345:00:00	HAM2	OPTLEV	Tx		940.3
			899.8	506.8	-6138.2	-6138.2	506.8	-899.8	-6138.2	506.8	-899.8	OPTLEV	HAM2	IN/OUT	WAMCB1	VP5	245.2	
			149.9	75.9	-19199.6	-19199.6	75.9	-149.9	-19199.6	75.9	-149.9	DLC	HAM2	OPTLEV			13090.0	
			899.7	420.1	-6138.2	-6138.2	420.1	-899.7	-6138.2	420.1	-899.7	OPTLEV	HAM2	IN/OUT	WAMCB1	VP5	13087.4	
			912.3	425.9	-5918.0	-5918.0	425.9	-912.3	-5918.0	425.9	-912.3	HAM2	OPTLEV	Rc			220.6	941.9
																	26643.4	
	OPTLEV HAM3	WAMC1	913.9	-426.9	-17957.1	-17957.1	-426.9	-913.9	-17957.1	-426.9	-913.9	Source	375:00:00	HAM3	OPTLEV	Tx		940.3
			900.5	-415.9	-17703.1	-17703.1	-415.9	-900.5	-17703.1	-415.9	-900.5	OPTLEV	HAM3	IN/OUT	WAMCA1	VP5	254.6	
			216.3	147.1	-4700.1	-4700.1	147.1	-216.3	-4700.1	147.1	-216.3	DLC	HAM3	OPTLEV			13033.1	
			900.8	-516.0	-17703.1	-17703.1	-516.0	-900.8	-17703.1	-516.0	-900.8	OPTLEV	HAM3	IN/OUT	WAMCA1	VP5	13037.8	
			914.1	-528.9	-17957.0	-17957.0	-528.9	-914.1	-17957.0	-528.9	-914.1	HAM3	OPTLEV	Rc			254.6	940.1
																	26580.1	
	OPTLEV SR3	WAMC2	965.1	-5893.5	-367.2	-367.2	-5893.5	-965.1	-367.2	-5893.5	-965.1	Source	407:00:00	OPTLEV	SR3	Tx		889.1
			949.6	-6138.2	-363.7	-363.7	-6138.2	-949.6	-363.7	-6138.2	-949.6	OPTLEV	SR3	IN	WAMCB2	VP5	245.2	
			95.9	-19615.0	-170.9	-170.9	-19615.0	-95.9	-170.9	-19615.0	-95.9	SR3_RADIUS					13505.2	
			-758.5	-6138.2	-365.4	-365.4	-6138.2	758.5	-365.4	-6138.2	758.5	OPTLEV	SR3	OUT	WAMCB2	VP1	13505.3	
			-774.0	-5893.5	-369.0	-369.0	-5893.5	774.0	-369.0	-5893.5	774.0	OPTLEV	SR3	Rc			245.2	2628.2
																	27500.9	
	OPTLEV HAM5	WAMC2	913.9	-5893.5	514.9	514.9	-5893.5	-913.9	514.9	-5893.5	-913.9	Source	408:00:00	HAM5	OPTLEV	Tx		940.3
			901.2	-6138.2	506.8	506.8	-6138.2	-901.2	506.8	-6138.2	-901.2	OPTLEV	HAM5	IN/OUT	WAMCB2	VP7	245.2	
			220.7	-19249.8	74.3	74.3	-19249.8	-220.7	74.3	-19249.8	-220.7	DLC	HAM5	OPTLEV			13136.3	
			901.1	-6138.2	424.4	424.4	-6138.2	-901.1	424.4	-6138.2	-901.1	OPTLEV	HAM5	IN/OUT	WAMCB2	VP7	13133.9	
			913.8	-5893.5	430.9	430.9	-5893.5	-913.8	430.9	-5893.5	-913.8	HAM5	OPTLEV	Rc			245.1	940.4
																	26760.5	
	OPTLEV HAM4	WAMC2	913.9	-17957.1	514.9	514.9	-17957.1	-913.9	514.9	-17957.1	-913.9	Source	441:00:00	HAM4	OPTLEV	Tx		940.3

