

SEE LIGO E1300254, FOR OCULAR DEPTH & OBJECTIVE GAP DETAILS.

REV.	DATE	DCN #	DRAWING TREE #
v1	25 MAY 2011	E1100465-x0	-
v2	12 SEP 2013	E1300714-x0	-
-	-	-	-

ASSY. STEP 2
(ASSEMBLED)

ASSY. STEP 2
(OCULAR ELEMENT)

SECTION A-A
(OCULAR DEPTH DETAIL)

P/N SM2RR
SUPPLIED AS PART OF
ITEM NO. 2

ASSY. STEP 4
(ASSEMBLED)

ASSY. STEP 4

ASSY. STEP 4
(OBJECTIVE GAP)

ASSY. STEP 2
(OCULAR ELEMENT)

ASSY. STEP 3

ASSY. STEP 5

ASSY. STEP 6

ASSY. STEP 1
(ASSEMBLED)

P/N SM1RR
SUPPLIED AS PART
OF ITEM NO. 7

P/N SM2RR
SUPPLIED AS PART OF
ITEM NO. 5

DISCARD
RETAINING RING
SUPPLIED AS PART OF
ITEM NO. 3

ASSY. STEP 1

ITEM NO.	PART NUMBER	DESCRIPTION	REQ
12	THORLABS SM1RR	SM1 RETAINING RING	1
11	THORLABS SM2A6	ADAPTER, SM2 TO SM1, THREADED	1
10	THORLABS SM1FCA	SM1 CONNECTOR ADAPTER PLATE, THREADED	1
9	THORLABS LA1422-A	N-BK7 PLANO-CONVEX LENS, 1.0 DIA	1
8	THORLABS SM1S01	RING, LENS SPACER, .015 THK.	1
7	THORLABS SM1L10	SM1 LENS TUBE, 1.0 LG.	1
6	THORLABS SM2CP2	SM2 SERIES END CAP, EXTERNAL THREAD	1
5	THORLABS SM2L10	SM2 LENS TUBE, 1.0 THREAD DEPTH	2
4	THORLABS LA1256-A	N-BK7 PLANO-CONVEX LENS, 50.8 mm DIA.	1
3	THORLABS SM2L05	SM2 LENS TUBE, .5 THREAD DEPTH	2
2	THORLABS SM2V10	SM2 LENS TUBE, ADJUSTABLE, 2.0 DIA.	1
1	THORLABS SM2E60	SM2 LENS TUBE, 6.0 LG.	1

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

PART NAME
ALIGO, AOS, OPLEV, ITEM/ETM TELESCOPE ASSY. (LONG RANGE)

SYSTEM
ADVANCED LIGO

DESIGNER
E.JAMES 25 MAY 2011

SUB-SYSTEM
OPLEV

SIZE DWG. NO.
D D0901362

MATERIAL
N/A

FINISH
N/A μinch

REVISIONS
v2

SCALE: 1:1

PROJECTION:

SHEET 1 OF 1