



BI-TELECENTRIC LENSES

CLAMPING MECHANICS

Accurate alignment of optical components is a crucial point to consider when designing measurement systems.

Besides optical components stability, the mechanical system layout should assure that the optical axis is orthonormal to the measurement plane. For this purpose, Opto Engineering® supplies CMHO Series Clamping Mechanics, suitable for most of OE Telecentric Lenses and Collimated Illuminators.

Three-point mounting grants a very good and stable alignment of the optical components, also making the assembling procedure quick and simple.



Assembling of a Telecentric Lens on a CMHO holder









CMHO SERIES: CLAMPING HOLDERS

		compatible telecentric lenses and illuminators					mechanical specs				
	part number	matrix camera telecentric	large detector telecentric	very large detector telecentric	LT CL illuminators	length	width		optical axis height		
	CMHO23	TC2304, TC2307, TC2309, TC21312	TC4M04, TC4M07, TC4M09	n.a.	LTCL23/x	(mm) 20,0	(mm) 53,0	(mm) 66,5	(mm) 40,0	(g) 114	
	CMHO16	TC1216, TC2316	TC4M16, TC2M16	n.a.	LTCL16/x	20,0	62,5	71,2	40,0	123	
	CMHO24	TC1224, TC2324	TC4M24, TC2M24	n.a.	LTCL24/x	20,0	62,5	71,2	40,0	115	
	CMHO36	TC1336, TC1236, TC2336	TC4M36, TC2M36	TC16M36	LTCL36/x, LTCLUV36	110,0	97,0	125,5	80,0	520	
	CMHO48	TC1248, TC2348	TC4M48, TC2M48	TC16M48	LTCL48/x, LTCLUV48	140,0	111,0	132,5	80,0	640	
	CMHO56	TC1256, TC2356	TC4M56, TC2M56	TC16M56	LTCL56/x, LTCLUV56	162,0	116,0	135,0	80,0	720	
	CMHO64	TC1364, TC1264, TC2364	TC4M64, TC2M64	TC16M64	LTCL64/x, LTCLUV64	175,0	137,0	145,0	80,0	810	
	CMHO80	TC2372, TC1380, TC1280, TC2380	TC4M72, TC4M80, TC2M80	TC16M80	LTCL80/x, LTCLUV80	230,0	153,0	152,0	80,0	1060	
	CMHO96	TC2385, TC1396, TC1296, TC2396	TC4M85, TC4M96, TC2M96	TC16M96	LTCL96/x	265,0	179,0	186,5	100,0	1400	
	CMH120	TC23110, TC12120, TC23120	TC4M110, TC4M120, TC2M120	TC16M120	LTCL120/x	204,0	220,0	240,0	130,0	2600	
	CMH144	TC23130, TC12144, TC23144	TC4M130, TC2M144, TC4M144	TC16M144	LTCL144/x	204,0	232,0	247,0	130,0	2400	







CMPT SERIES: MOUNTING PLATES

CMPT plates are mounting units designed to
build up dimensional measurement optical
benches. Telecentric Lenses and Collimated
sources of different types can be held by
means of the related CMHO clamping
holders. For very accurate measurement
applications, precision patterns can be
precisely positioned in front of the lens
through CMPH Pattern Holders allowing for
perfect optical system calibration.

			mechanical specs				
part	compatible CMHO	compatible	length	width	thickness	weight	
number	clamping	pattern					
	mechanics	mounts	(mm)	(mm)	(mm)	(g)	
CMPT04-09	CMH023	CMPH004-024	199,6	56,0	10,0	286	
CMPT16-24	CMH016, CMH024	CMPH004-024	226,8	66,5	10,0	385	
CMPT36	CMH036	CMPH036-056	477,0	103,0	15,0	1950	
CMPT48	CMH048	CMPH036-056	596,0	117,0	15,0	2770	
CMPT56	CMH056	CMPH036-056	631,0	122,0	15,0	3060	
CMPT64	CMH064	CMPH064-096	783,0	143,0	15,0	4460	
CMPT80	CMH080	CMPH064-096	868,0	158,0	15,0	5470	
CMPT96	CMH096	CMPH064-096	1005,0	185,0	20,0	9940	

