

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.

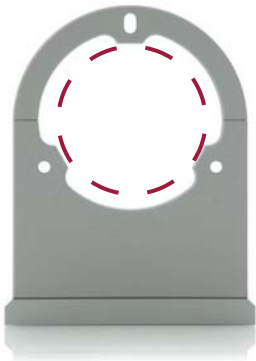
Three-point mounting grants a very good and stable alignment of the optical components, also making the assembling procedure quick and simple.

Opto-mechanical solutions for telecentric lenses



CMHO SERIES: CLAMPING HOLDERS

part number	compatible telecentric lenses and illuminators				mechanical specs				
	matrix camera telecentric	large detector telecentric	very large detector telecentric	LT CL illuminators	length (mm)	width (mm)	height (mm)	optical axis height (mm)	weight (g)
CMHO23	TC2304, TC2307, TC2309, TC21312	TC4M04, TC4M07, TC4M09	n.a.	LTCL23/x	20,0	53,0	66,5	40,0	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



Assembling of a Telecentric Lens on a CMHO holder



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.

part number	compatible CMHO clamping mechanics	compatible pattern mounts	mechanical specs			
			length (mm)	width (mm)	thickness (mm)	weight (g)
CMPT04-09	CMHO23	CMPHO04-024	199,6	56,0	10,0	286
CMPT16-24	CMHO16, CMHO24	CMPHO04-024	226,8	66,5	10,0	385
CMPT36	CMHO36	CMPHO36-056	477,0	103,0	15,0	1950
CMPT48	CMHO48	CMPHO36-056	596,0	117,0	15,0	2770
CMPT56	CMHO56	CMPHO36-056	631,0	122,0	15,0	3060
CMPT64	CMHO64	CMPHO64-096	783,0	143,0	15,0	4460
CMPT80	CMHO80	CMPHO64-096	868,0	158,0	15,0	5470
CMPT96	CMHO96	CMPHO64-096	1005,0	185,0	20,0	9940

