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MH Series Telecentric Lenses

Product Features

1. High resolution, max compatible to industrial camera with 2/3'' sensor and 2MP resolution
2. Low magnification, uniform brightness from the center to the edges with coaxial illumination
3. Object side telecentric design

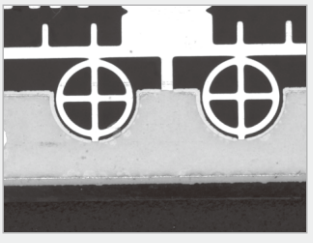
Selection Guide

OPT-MH15-110AB

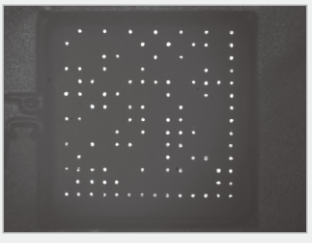
- Upgraded version
- C: coaxial structure; A: no coaxial structure
- Working distance 110mm
- Magnification 1.5x
- MH series telecentric lens
- Brand name

Application Examples

Wafer recognition



MARK point localization



QR code recognition

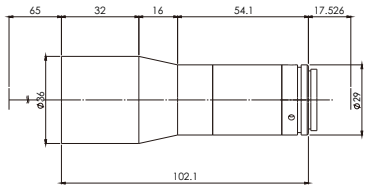
Model Table

No.	Model	WD (mm) [1]	Mag. (x)	Image circle (Ømm)	Aperture (F/#) [2]	Distortion (% Max)	DOF (mm) [3]	Mount	Weight (kg)	FOV (mm×mm)			
										1/3"	1/2.5"	1/2"	2/3"
										4.8×3.6	5.7×4.2	6.5×4.9	8.4×7.1
1	OPT-MH05-65A	65±2	0.5	11	16.5	0.01	5.45	C	0.18	9.6×7.2	11.4×8.4	13×9.8	16.8×14.2
2	OPT-MH08-65A	65±2	0.8	11	10	0.09	1.29	C	0.13	6×4.5	7.1×5.3	8.1×6.1	10.5×8.9
3	OPT-MH10-65A	65±2	1	11	11.1	0.04	0.92	C	0.21	4.8×3.6	5.7×4.2	6.5×4.9	8.4×7.1
4	OPT-MH15-65C	65±2	1.5	11	11.9	0.099	0.44	C	0.12	3.2×2.4	3.8×2.8	4.3×3.3	5.6×4.7
5	OPT-MH20-65C	65±2	2	11	14.4	0.039	0.30	C	0.12	2.4×1.8	2.9×2.1	3.3×2.5	4.2×3.6
6	OPT-MH30-65C	65±2	3	11	15.7	0.038	0.14	C	0.14	1.6×1.2	1.9×1.4	2.2×1.6	2.8×2.4
7	OPT-MH40-65C	65±2	4	11	17.7	0.064	0.09	C	0.12	1.2×0.9	1.4×1.1	1.6×1.2	2.1×1.8
8	OPT-MH60-65A	65±2	6	11	26.8	0.03	0.06	C	0.13	0.8×0.6	1.0×0.7	1.1×0.8	1.4×1.2
9	OPT-MH05-110A	110±3	0.5	11	9.6	0.095	3.17	C	0.18	9.6×7.2	11.4×8.4	13×9.8	16.8×14.2
10	OPT-MH08-110A	110±3	0.8	8	10	0.01	1.29	C	0.16	6×4.5	7.1×5.3	8.1×6.1	-
11	OPT-MH10-110A	110±3	1	11	11	0.03	0.91	C	0.17	4.8×3.6	5.7×4.2	6.5×4.9	8.4×7.1
12	OPT-MH15-110AB	110±3	1.5	11	11.8	0.023	0.43	C	0.20	3.2×2.4	3.8×2.8	4.3×3.3	5.6×4.7
13	OPT-MH15-110CB	110±3	1.5	11	11.8	0.023	0.43	C	0.21	3.2×2.4	3.8×2.8	4.3×3.3	5.6×4.7
14	OPT-MH20-110AB	110±3	2	11	11.6	0.036	0.24	C	0.21	2.4×1.8	2.9×2.1	3.3×2.5	4.2×3.6
15	OPT-MH20-110CB	110±3	2	11	11.6	0.036	0.24	C	0.23	2.4×1.8	2.9×2.1	3.3×2.5	4.2×3.6
16	OPT-MH30-110C	110±3	3	11	18.3	0.037	0.17	C	0.14	1.6×1.2	1.9×1.4	2.2×1.6	2.8×2.4
17	OPT-MH40-110C	110±3	4	11	22.1	0.058	0.11	C	0.15	1.2×0.9	1.4×1.1	1.6×1.2	2.1×1.8
18	OPT-MH60-110A	110±3	6	11	33.2	0.03	0.08	C	0.16	0.8×0.6	1×0.7	1.1×0.8	1.4×1.2
19	OPT-MH07-145A	145±4	0.7	7	14.6	0.42	2.46	C	0.08	6.9×5.1	8.14×6	-	-
20	OPT-MH10-200A	200±6	1	11	14.3	0.07	1.18	C	0.20	4.8×3.6	5.7×4.2	6.5×4.9	8.4×7.1

Remarks:
1. Working distance, the distance between the front end of the mechanics and the object.
2. The real F# of a lens when using. Lenses with smaller apertures can be workable.
3. At the borders of the DOF the image still can be used for measurement. But only half of the nominal DOF can get sharp images.

Dimensional Drawings [mm]

1 OPT-MH05-65A



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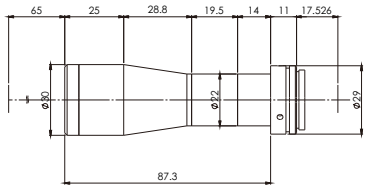

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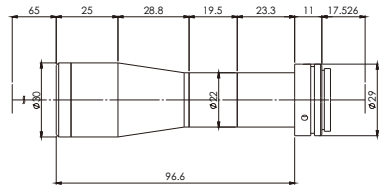

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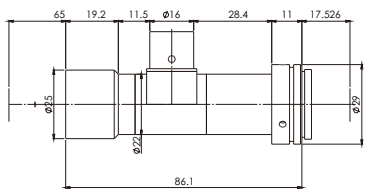

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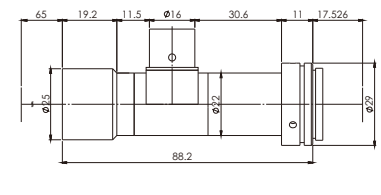

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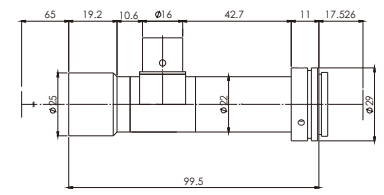

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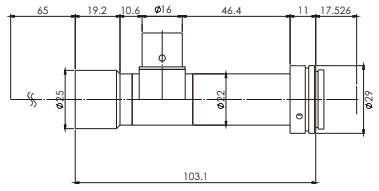

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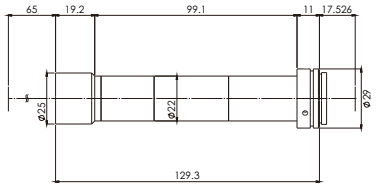

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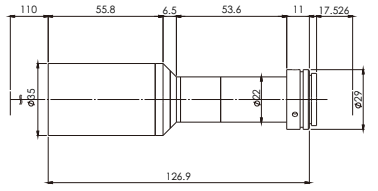

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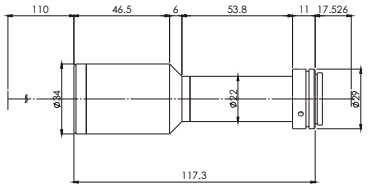

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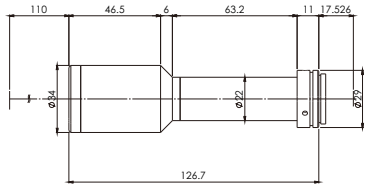

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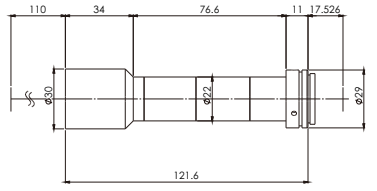

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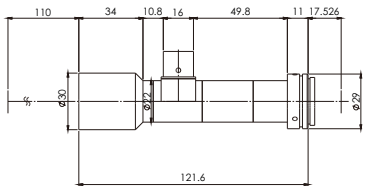

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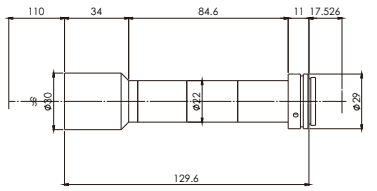

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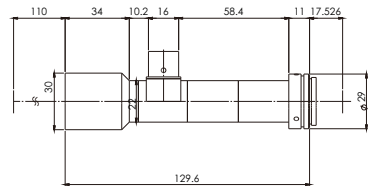

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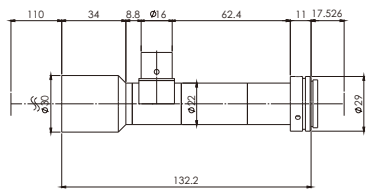

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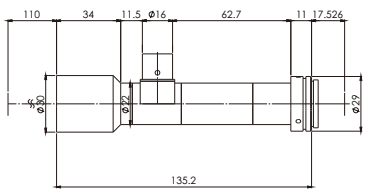

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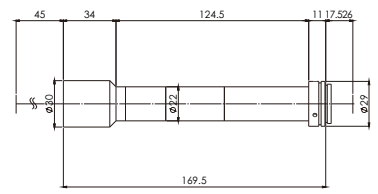

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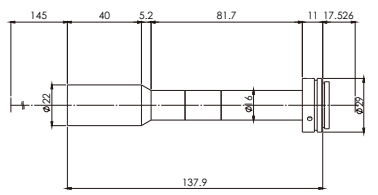

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